Baseline Report

2022

Anthropometric Information of School Children

Pilot survey covering selected 213 children in fifth, sixth, seventh & eighth standards in two MPUPS and two ZPHS located in U. Kothapalli & Thondangi Mandals of Kakinada District, AP

plf Poverty Learning Foundation

HKM CHARITABLE FOUNDATION

CONTENTS

NUTSHELL SUMMARY

This baseline study aims mainly to provide anthropometric information on selected school children against which to monitor and assess the progress of intervention and effectiveness during and after a certain period. It covered 213 school children studying in fifth, sixth, seventh, and eighth standards in selected Mandal Parished Upper Primary Schools and Zilla Parishad High Schools in U.Kothapalli and Tondangi Mandals of Kakinada district, Andhra Pradesh.

It summarizes the BMI results of 213 sample children, highlighting that most are "severely underweight" (66%), and few are "underweight" (16%). It indicates these children could be malnourished with low protein-energy deficiency. Such a scenario may impact their normal health and cognitive skills and cap their learning outcomes. According to their BMI results, quite a few are in normal weight (18%).

The proposed intervention focusing on "nutritious breakfast" to all 6323 children in 40 schools by HKMCF, from the ultra-modern kitchen in Special Economic Zone (SEZ) at Perumallapuram Village, Thondangi Mandal in Kakinada established with Aurobindo Pharma Foundation (APF) support, hypothetically aims at improving nutrition among the school children to improve their school attendance, learning, and cognitive outcomes.

CONTEXT

Food insecurity and poor nutrition remain a problem in many developing countries, including India. These twin variables can profoundly affect children's health and development. To address the challenge, the Government of India has introduced the Mid-day Meal Scheme for school-going-age children to mitigate hunger and malnutrition. Simultaneously, the scheme was aimed at increasing school enrolment and attendance.

Many Corporates have joined with the Government to strengthen its interventions addressing malnutrition among school children.

Along with the corporates, charitable organizations such as Hare Krishna Movement Charitable Foundation (HKMCF) joined hands in improving the outcomes.

In this context, Aurobindo Pharma Foundation extended its philanthropic support of INR 9.36 crores to the HKMCF in setting up a centralized kitchen at the SEZ in Perumallapuram village, Thondangi Mandal, Kakinada District in Andhra Pradesh, and to meet recurring expenditure for five years. The current initiative aims to distribute hot-cooked breakfast to the rural children in primary and secondary schools in the selected 40 government-run schools across 38 villages in Thondangi and U-Kothapalli (Uppada Kothapalli) Mandals.

On April 24, 2022 Aurobindo Pharma Foundation and Hare Krishna Movement Charitable Trust entered into an MoU to run kitchen in KSEZ in Kakinada district. Photo Credit: The Hindu

The approximate direct beneficiaries would be around 6323 children and the hypothetical results expected are:

1. Healthy & hunger-free children in schools
2. Increased school attendance and retention among all social categories
3. Improved learning skills among the children
4. Stand as one of the best CSR models across the country.

To examine the change that resulted from the proposed intervention it is essential (at the formative stage) to set baseline with anthropometric measurements of the children in the schools where HKMCF is going to distribute hot cooked breakfast. The study (setting the baseline information) has been assigned to the Poverty Learning Foundation.

The present report provides individual-focused anthropometric information base against which further monitoring and assessment exercises would proceed in the years to come (focussing on progress of children and effectiveness of intervention).

THEORY OF CHANGE

The theory of change for the proposed intervention is: "Facilitating school children with nutritious breakfast (as proposed by HKMCF) helps in healthy growth of children (specifically BMI) over a period, which results in improvement of their health conditions, and improved learning skills"

Research & Sample Framework

The survey has been carried out between 18 and 24 September 2022 by trained and seasoned investigators along with the core team from PLF. The mixed methods research framework (qualitative and quantitative) has been used in collecting the information on critical anthropometric measurements: standing body height, body weight, mid arm skinfold thickness and mid arm circumference of children in V to VIII standards. These children are segregated into Mandal Parishad Upper Primary Schools (MPUPS) and Zilla Parishad High Schools (ZPHS).

A perimeter-focused, pre-validated and semi-structured questionnaire has been developed. Accordingly, general information and anthropometric measurements were collected from randomly selected 213 children (110 girls & 103 boys) studying in V, VI, VII and VIII standards in the government schools located at AV Nagaram, Mulapeta, Patha Chodipallipeta, and Srirampuram. A baseline has been set for two category cohort children: (a) children in MPUPS and (b) children in ZPHS. It has to be used while tracking the progress and the change during the impact assessment in near future.

The baseline information is focused on: (i) individual profile; (ii) school attendance (as per school records); (iii) cognitive profile (as per teachers' perception), and (iv) anthropometric profile (the real-time data). In this intervention, HKMCF proposed to cover 3384 children (100%) in 24 government schools in Thondangi Mandal and 2939 children (100%) in 16 Government schools in U. Kothapalli Mandal.

On a pilot basis, PLF has covered one MPUP school and one ZP high school in U. Kothapalli, Mandal; similarly, one MPUP school and one ZP high school in Thondangi Mandal. These schools are selected on the basis of geographical spread and outreach. Children were selected randomly (from fifth to eighth standard) for the survey keeping in view their assured availability in the school for the next two-three three years. The selection had an eye on tracking the same cohorts of select children in the schools during impact assessment study in future. The tools used during the survey are:

a. Digital weighing scale (to measure weight)
b. Stadiometer (to measure standing height)
c. Skinfold callipers (to measure triceps skinfold right upper arm)
d. Non-stretchable tape (to measure right arm circumference)baseline).

Quality control protocol has been followed while conducting anthropometric measurements. Each of the measurements of a child has been taken three times by different investigators and converted all three readings into averages. On a regular basis, every day after completing the survey, all tools were checked for their accuracy and functions.

Baseline survey measured Body Weight (BW), Standing Height (SH), Mid Upper Arm Circumference (MUAP) and Triceps Skinfold (TS). To ensure accuracy of measurement, each measurement has been taken thrice and average of three readings was finally considered. Using body weight and standing hight measurements Body Mass Index (BMI) has been calculated to determine the growth pattern of children, more specifically their present status. It is complemented by body fat accumulations measured through MUAP and TS. After specific period of proposed intervention, change/impact has to be assessed against the baseline data (measurements in the baseline).

Body Mass Index is calculated on the basis of height and weight of the child by using the standard formula (often used by the Centre for Disease Control and Prevention & WHO). It is calculated using the standard formula: First step: height in centimetres converted into meters and then into meter square. Second step: average body weight divided by height in meter square that will give BMI of an individual. The standardized BMI ranges used in this baseline survey are:

Severely underweight: below 16.5·
Under weight: between 16.6 and 18.5
Normal weight: between 18.6 and 24
Over weight: between 25 and 29.9
Obese weight: above 30

Along with BMI, measurements of Mid Upper Arm Circumference (MUAC) and Skin Fold Thickness (SFT) has been recorded for verification purpose while doing impact assessment.

RESULTS

The baseline survey covered 213 (110 girls & 103 boys) randomly selected school-going children from four select schools across four Mandals. Based on the total number of children in fifth to eighth standards, girls and boys were selected proportionately from each school. In total, anthropometric information has been collected from 39 children from Srirampur MPUPS, 41 from Patha Chodipallipeta MPUPS, 70 from Mulapeta ZPHS, and 63 children from AV Nagaram ZPHS (Fig 1).

Fig 1: Location-wise number of children covered

Total (n.213) — Boys 103, Girls 110
Srirampuram MPUPS (n. 39) — Boys 15, Girls 24
Patha Chodipalli Peta MPUPS (n. 41) — Boys 18, Girls 23
Mulapeta, ZPHS (n. 70) — Boys 37, Girls 33
AV Nagaram, ZPHS (n.63) — Boys 33, Girls 30

■ Boys ■ Girls
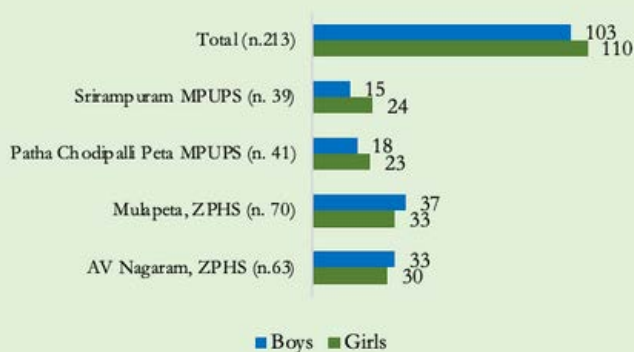
Of the total, 38% of the children in fifth to seventh standards from MPUPS, and 62% are in fifth to eighth standards in ZPHS. All these children are in the age group of 9 to 15 years. As Backward Castes are the dominant social categories in both the Mandals, 81% of the children fall under this caste group, 12% under Scheduled Castes, 14% under other Castes (OC). Only one student represents Scheduled Tribe (ST).

As per the school records, nearly 99% of the children are regular to school, and irregularity is negligible. Survey tried to elicit performance levels (reading, writing, and simple arithmetic) and cognitive skills (attention, memory, grasping, and thinking). It was reported that 33% of the children are performing well, 44% are average, and 23% are poor in their class room performance.

The significant observation is that 59% of the children across the sample are not taking Mid-Day Meals provided by the School Education department, Government of AP. Of those taking mid-day meals, roughly 50% take egg only but no other meal products. Two major reasons mentioned by those who are not taking mid-day meals are: poor quality rice and unhygienic distribution (opinion of children and their parents). Of those consuming mid-day meals, roughly 70% complained of stomach ache and frequent ill health.

The main focus of the survey is to set the baseline information on anthropometric measurements of the select children.

Fig. 2: Status of children as per BMI (in %)

Over weight (BMI between 25.0 and 29.9) — 1
Normal weight (BMI between 18.6 and 24.9) — 18
Under weight (BMI between 16.6 and 18.5) — 16
Severely Underweight (BMI <16.5) — 66
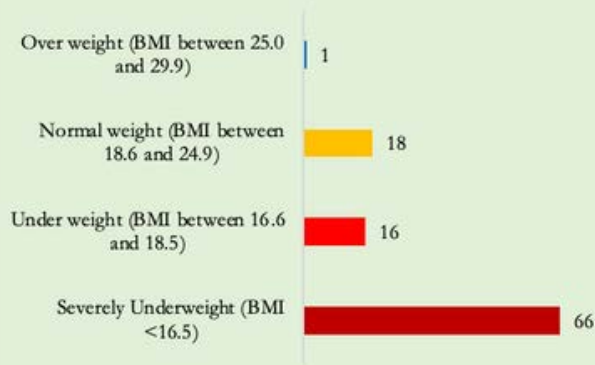
The datum and the attendant analysis highlight that of the total children, as per BMI, most of them (66%) fall under the severely underweight category. Similarly, there are a few children (16%) who come under the underweight category. Both these categories of children will have a weak immune system, slower than expected linear growth, shorter than expected height, and difficulties with learning. The survey has that a few children (18%) have average weight, and only one girl and one boy are placed under overweight category (Fig. 2).

Location-wise children's standardsification, as per their BMI, indicates that in all four locations, serverely underweight are topping the charts (Fig. 3).

Data indicate that in severely underweight category number of boys is slightly more than girls. Whereas in underweight and normal weight categories, girls' number is slightly higher than boys (Fig. 4).

Fig. 4 :Clasification of Girls and boys as per their BMI

	Girls	Boys
Severely Underweight (BMI <16.5)	63	69
Underweight (BMI between 16.6 and 18.5)	17	15
Normal weight (BMI between 18.6 and 24.9)	20	16
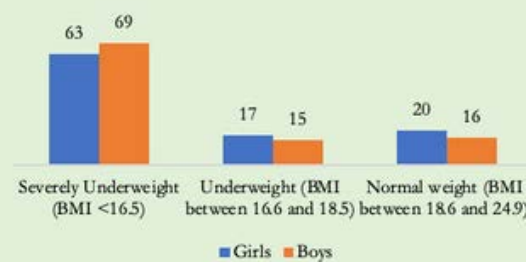
There are only two children, one girl and one boy (aged 8 years), who reported overweight (with 25+ BMI count) in ZPHS, AV Nagaram.

Fig. 3: Location-wise percentage of children as per BMI categories

AV Nagaram (n.63): 52, 17, 27, 3
Mulapeta (n. 70): 69, 16, 16, 0
Patha Chodipalli Peta (n. 41): 68, 15, 17, 0
Srirampuram (n. 39): 75, 13, 10, 0

■ Severely Underweight (BMI <16.5)   ■ Under weight (BMI between 16.6 and 18.5)
■ Normal weight (BMI between 18.6 and 24.9) ■ Over weight (BMI between 25.0 and 29.9)
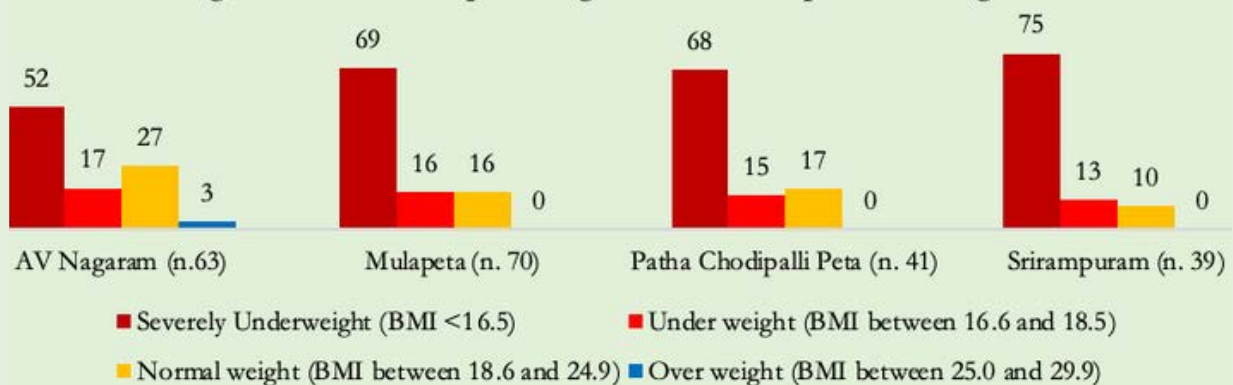
Of 56 children in the fifth standard, the BMI standardsification unfolds that majority (80%) are severely underweight, a few (9%) are underweight, and a few are normal weight (11%). Similarly, majority of children in sixth standard (57%), seventh standard (66%), and eighth standards (53%) are severely underweight. Similar trends in the underweight category are visible across all types, and there are a few children in the normal BMI category in all the standardses. It may be noted in the current context that severely underweight and underweight categories must have 'protein-energy malnutrition', which will often impact their normal health (Fig 5).

It is evident that in all social groups, BMI-based severely underweight and underweight children are significant in numbers. One child from the ST community is in the underweight category (Fig. 6).

Fig. 5: Class wise childrens BMI clasification (in %)

- ■ % of children Over weight (BMI between 25.0 and 29.9)
- ■ % of children Normal weight (BMI between 18.6 and 24.9)

Fig. 6 : Social group wise BMI clasification for children (%)

- ■ Severely Underweight (BMI <16.5)
- ■ Underweight (BMI between 16.6 and 18.5)
- ■ Normal weight (BMI between 18.6 and 24.9)
- ■ Over weight (BMI between 25.0 and 29.9)
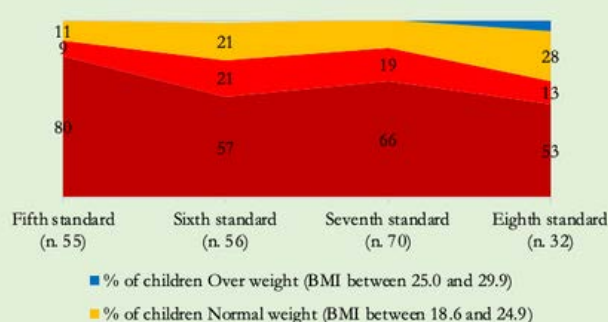
Children's age-wise BMI informs that, among girls, severely underweight and underweight children are significant in number. Out of 110 girls between 9 and 13 years, the highest majority (80%) are malnourished.
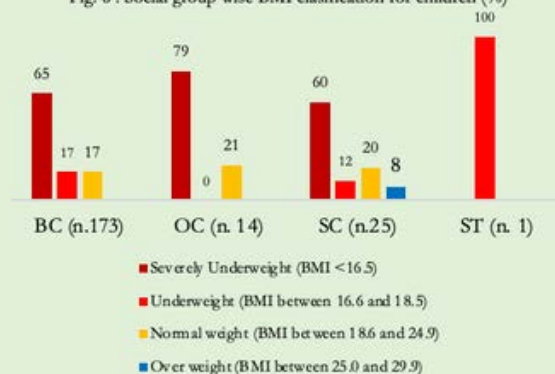
A few girls are in the normal weight category, and only one girl (aged 12) is in the overweight category.

BMI Clasifications	Age category of Girls (In numbers)					Total
	9	10	11	12	13	
Severly Underweight (<16.5)	7	20	17	19	5	68
Under weight (16.6 to 18.5)	2	2	3	11	1	19
Normal (18.6 to 24.9)	1	6	5	6	4	22
Over weight (25.0 to 29.9)	0	0	0	1	0	1
Total number off children	10	28	26	37	10	110

Similar statistics for boys shed light on the fact that of the 103 boys, the highest majority (83%) are malnourished (severely underweight and underweight categories).

A few only are of normal weight, and only one boy (aged 12) comes under the overweight category.

BMI Classifications	Age category of Boys (In numbers)							Total
	9	10	11	12	13	14	15	
Severly Underweight (<16.5)	6	18	21	16	6	3	1	71
Under weight (16.6 to 18.5)	0	2	5	5	2	0	1	15
Normal (18.6 to 24.9)	0	1	1	5	6	3	0	16
Over weight (25.0 to 29.9)	0	0	0	1	0	0	0	1
Total number of children	6	21	27	27	14	6	2	103

Given the outcomes of the baseline survey, it can be concluded that the effect of malnutrition (severely underweight and underweight) on children's school performance, health and survival are is striking visible and calls for appropriate remedy. Many research studies confirmed that malnutrition negatively impacts children's physical growth, mental development, and work efficiency.

Providing nutritious and protein-energy food items through breakfast and mid-day meals help in improving nutritional status of children. The following section highlights the synthesised baseline information for all the 213 children surveyed.

Summary
of
anthropometric
information
of
children
including
specific
observations

(observations are
synthesized from teams
interaction with
students, parents,
teachers and with
few villagers)

Srirampuram, U. Kothapalli Mandal
Survey date: 19 September 2022

There are 105 student populations in MP Upper Primary School in Srirampuram. Most (99%) are from backward-class communities (Yadava and Setti Balija), whose primary livelihoods depend on agriculture and non-agriculture activities.   Though Mid-day meals are supplied regularly by the outsourced agency, their quality seems discouraging. An un-hygienic supply chain and poor quality of rice and eggs discourage students from accepting it. None of the 39 students in this survey are taking mid-day meals supplied under ICDS. Parents are particularly concerned about it after taking such food; children often complain of stomach aches. Hence, many parents have come to the school with lunch boxes at noon. A demand from the teachers attests to the conclusive verification: let the ISKON supply mid-day meal too.

The BMI classification highlights that a significant number of students are severely malnourished.

In % (n. 39)

77

15

8

0

| Severly Underweight (<16.5) | Underweight (16.6 to 18.5) | Normal weight (18.6 to 24.9) | Over weight (25.0 to 29.9) |

Srirampuram

BASELINE INFORMATION for selected children in MPUP Schools, Srirampuram, U. Kothapalli Mandal (as on 19 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing hight (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
UPS/SRP/UKP-Cohort 001	Genjala Lova ghanalakshmi	F	5	10	BC	G	136.4	1.86	22.8	12.25	■				8	16.0	Genjala Kurpanandam	8499971622
UPS/SRP/UKP-Cohort 002	Kaali shalini	F	5	10	BC	A	142.7	2.04	27.1	13.31	■				7	18.8	Kaali venkataramana	9493214137
UPS/SRP/UKP-Cohort 003	Gandepalli Nagasri	F	5	10	BC	G	134.2	1.80	23.6	13.11	■				8	17.5	Gandepalli Srinu	9493076512
UPS/SRP/UKP-Cohort 004	Koneti Pavani Venkata Durga	F	5	11	BC	A	150.3	2.26	45.6	20.18			■		9	26.5	Koneti Sesha Rao	7095217179
UPS/SRP/UKP-Cohort 005	Nagalla Pushpanjali	F	5	12	BC	A	148.1	2.19	40.0	18.25		■			9	24.7	Nagalla Lova Raju	9666377904
UPS/SRP/UKP-Cohort 006	Yadhala Purendeswari	F	5	12	BC	G	140.2	1.96	34.2	17.41		■			9	23.5	Yadhala Babu Rao	8330926471
UPS/SRP/UKP-Cohort 007	Koyya Varun	M	5	9	BC	A	136.6	1.87	23.2	12.43	■				8	17.0	Koyya Subramanyam	7382283398
UPS/SRP/UKP-Cohort 008	Kadari Hemanth sri sai	M	5	11	BC	G	137.0	1.88	23.3	12.42	■				9	17.0	Kadari Suribabu	9491764456
UPS/SRP/UKP-Cohort 009	Koyya Sai srinivas	M	5	11	BC	G	143.4	2.06	25.0	12.16	■				9	17.1	Koyya veerababu	9705932668
UPS/SRP/UKP-Cohort 010	Amjalpur ,Venkata subramanyam	M	5	10	BC	P	130.9	1.71	23.8	13.90	■				9	9.7	Amjalpur .Appa rao	9490230151
UPS/SRP/UKP-Cohort 011	Namali.Manikanta	M	5	10	BC	P	139.2	1.94	25.3	13.07	■				7	17.8	Namali Rambabu	NA
UPS/SRP/UKP-Cohort 012	Perla Nanaji	M	5	10	BC	G	142.2	2.02	27.3	13.51	■				9	17.8	Perla Yeerabaiah	NA

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BASELINE INFORMATION for selected children in MPUP Schools, Srirampuram, U. Kothapalli Mandal (as on 19 September 2022)

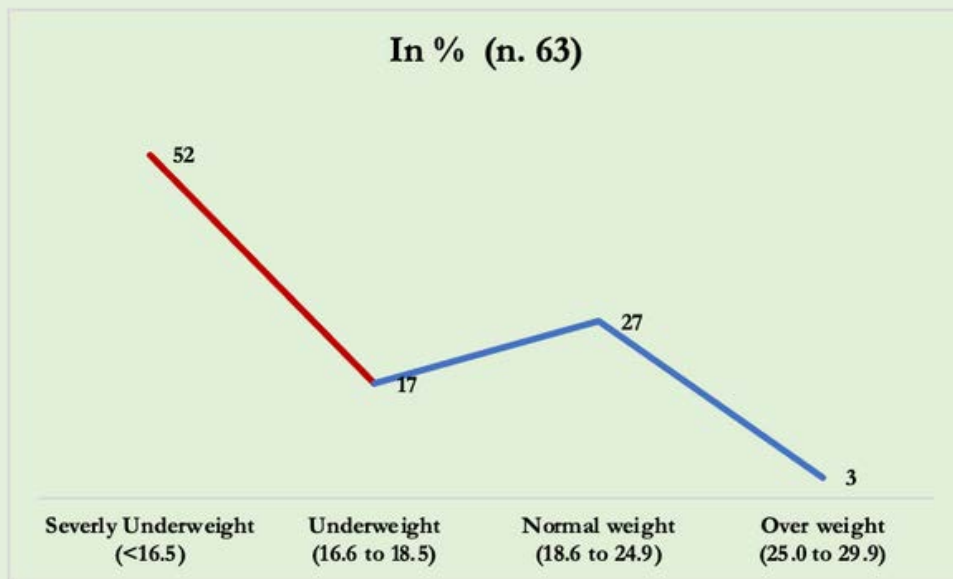| Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm)	Father's/Mother's Name	Phone Number of the Parents
UPS/SRP/UKP-Cohort 013	Mumidipodu. Krishna veni	F	6	10	OC	G	137.5	1.89	23.7	12.54	███				9	16.5	Mumidipodu.Durga Babu	7816079007
UPS/SRP/UKP-Cohort 014	Tallapenta.madhu	F	6	10	BC	P	134.8	1.82	19.5	10.74	███				9	17.0	Tiallapenta Nuka raju	9491521695
UPS/SRP/UKP-Cohort 015	Manemula Satya Durga	F	6	11	BC	P	143.7	2.06	26.8	12.98	███				10	19.0	Manemula Babu Rao	7032693573
UPS/SRP/UKP-Cohort 016	Perla Sathya Durga Manikanya	M	6	10	BC	A	128.8	1.66	21.2	12.79					8	17.7	Perla Kamaraju	7207122431
UPS/SRP/UKP-Cohort 017	Pati Trinath	M	6	11	BC	A	147.8	2.18	30.3	13.88	███				10	20.0	Pati Veeraj	9493740815

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Srirampuram

BASELINE INFORMATION for selected children in MPUP Schools, Srirampuram, U. Kothapalli Mandal (as on 19 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Wright (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumfeerence (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
UPS/SRP/UKP-Cohort 018	Nagalla.seerisha	F	7	12	BC	A	165.0	2.72	41.1	15.10	red				9	21.0	Nagalla veera durga	9492186221
UPS/SRP/UKP-Cohort 019	Perla Nagadurga	M	7	14	BC	P	160.0	2.56	40.2	15.71	red				9	22.3	perla govind	NA
UPS/SRP/UKP-Cohort 020	Manimula pravallika	F	7	11	BC	A	161.4	2.61	32.1	12.32	red				8	19.0	Mnimula Tatabbai	9848581529
UPS/SRP/UKP-Cohort 021	Perla Satya kumari	F	7	10	BC	A	144.4	2.09	26.9	12.89	red				8	17.5	Perla kristna	6281375785
UPS/SRP/UKP-Cohort 022	Mummudi Chinnari	F	7	12	OC	G	146.0	2.13	28.6	13.42	red				9	20.0	Mummudi dhorababu	9951766791
UPS/SRP/UKP-Cohort 023	Nemala Lalitha	F	7	13	BC	A	156.0	2.43	34.7	14.26	red				8	21.5	Nemala Appa Rao	9491256061
UPS/SRP/UKP-Cohort 024	Perla Devi	F	7	13	BC	A	157.7	2.49	58.8	23.65			orange		9	28.0	Perla Perantalu	9491883987
UPS/SRP/UKP-Cohort 025	Thalapenta Pavithra Durga Nageswari	F	7	12	BC	P	159.1	2.53	37.3	14.74	red				9	22.5	Thalapenta Nooka Raju	9491521695
UPS/SRP/UKP-Cohort 026	Pati Jnana Thrinethra Aishwarya	F	7	12	BC	A	155.3	2.41	43.8	18.17			orange		8	24.5	Pati Ramakristna	9491260032
UPS/SRP/UKP-Cohort 027	Koneti Tulasi Lakshmi	F	7	13	BC	G	163.8	2.68	54.1	20.16			orange		9	26.5	Koneti Sesha Rao	7095217179
UPS/SRP/UKP-Cohort 028	Thadiparthi Bala naga satya gangadhar	M	7	11	BC	A	151.7	2.30	32.6	14.16	red				8	20.4	Thadiparthi Srinu	7708181838
UPS/SRP/UKP-Cohort 029	Koyya Subramanyam manikanta	M	7	12	BC	A	142.1	2.02	29.2	14.45	red				8	19.7	Koyya veerababu	9705932668
UPS/SRP/UKP-Cohort 030	Naagalla venkata lakshmi	F	7	12	BC	G	153.4	2.35	30.1	12.79	red				8	19.5	Naagalla Lavaraju	7901288837
UPS/SRP/UKP-Cohort 031	Peketi Pallavi	F	7	11	BC	A	158.3	2.50	44.3	17.69		red			9	23.5	Peketi Kondal	7382925203
UPS/SRP/UKP-Cohort 032	Gimjala Nagalaxmi	F	7	11	BC	A	147.7	2.18	31.0	14.22	red				8	18.5	Gimjala Yesubabu	9912921204
UPS/SRP/UKP-Cohort 033	Potharaju Veeralaxmi	F	7	12	OC	A	131.0	1.72	21.2	12.35	red				8	17.5	Potharaju Apparao	9666155961
UPS/SRP/UKP-Cohort 034	Nagalla Satyashiva manikanta	M	7	11	BC	P	135.8	1.84	21.9	11.90	red				7	17.1	Nagalla Srinu	9948609061
UPS/SRP/UKP-Cohort 035	Nagalla Vijaya karthik	M	7	11	BC	G	143.7	2.06	32.6	15.79		red			8	21.4	Ngalla Naga satya naryana	9493689134
UPS/SRP/UKP-Cohort 036	Pirla Krishna kumari	F	7	12	BC	P	161.8	2.62	46.1	17.62		red			9	24.5	Perla Govindu	NA
UPS/SRP/UKP-Cohort 037	Nagalla Shiva durga	F	7	11	BC	P	143.3	2.05	35.9	17.47	red				9	23.0	Nagalla Nagaraju	7995197588
UPS/SRP/UKP-Cohort 038	Pirla Naresh	M	7	12	BC	P	141.4	2.00	22.5	11.24	red				6	15.7	Pirla Apparao	NA
UPS/SRP/UKP-Cohort 039	Ummudu Bulli	M	7	11	BC	P	145.6	2.12	26.2	12.36	red				7	16.1	Ummudu Durgaiaha	NA

AV Nagaram, Thondangi Mandal
Survey date: 20 September 2022

There is a 149 student population at ZP High school in AV Nagaram. The majority are from the BC community (Yadava) whose main occupation is agriculture and non-agriculture. A private contractor supplies the mid-day meals, and most students (80%) consume them. There are no significant complaints from students or their parents about mid-day meals. Quite a few (20%) bring lunch boxes from their homes. This school is just a couple of kilometres away from the newly constructed centralized kitchen of HKMCF.

The BMI classification highlights that a significant number of students are severely malnourished. It is to be noted that significant number are in normal weight.

In % (n. 63)

52 — Severly Underweight (<16.5)
17 — Underweight (16.6 to 18.5)
27 — Normal weight (18.6 to 24.9)
3 — Over weight (25.0 to 29.9)

BASELINE INFORMATION for selected children in ZP High School, AV Nagaram, Thondangi Mandal (as on 20 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/AVN/TG-Cohort-001	Dhulla Hasini	F	5	10	BC	A	139.8	1.96	36.3	18.6			▣		8	21.5	Dhulla Kristna	6304637211
ZPH/AVN/TG-Cohort-002	Dola Supraja Srinidi	F	5	10	BC	A	129.1	1.67	23.7	14.2		▣			7	17.0	Dola Durga Rao	
ZPH/AVN/TG-Cohort-003	Kukka Himabindu Varalakshmi	F	5	9	OC	A	133.1	1.77	32.6	18.4		▣			8	21.4	Kukka Raju	
ZPH/AVN/TG-Cohort-004	Nemala Satya varalakshmi	F	5	10	BC	G	135.3	1.83	36.5	19.9			▣		9	23.5	Nemala Satyanarayana	
ZPH/AVN/TG-Cohort-005	Kormel Durga Devi	F	5	8	BC	A	132.2	1.75	24.5	14.0	▣				7	16.5	Kormel Ramanyya	
ZPH/AVN/TG-Cohort-006	Polavarapu Ganesh	M	5	10	BC	A	126.3	1.59	21.8	13.7	▣				7	17.5	Polavarapu AppalaRaju	
ZPH/AVN/TG-Cohort-007	Dola Rajesh Kumar	M	5	9	BC	A	128.9	1.66	25.6	15.4	▣				7	18.5	Dola DhoraBabu	
ZPH/AVN/TG-Cohort-008	Bandi.Sathish	M	5	10	BC	P	131.5	1.73	27	15.6	▣				8	20.0	Bandi .Srikanth	
ZPH/AVN/TG-Cohort-009	Sakkula.Kuberudu	M	5	10	BC	A	139.0	1.93	36.2	18.7			▣		8	22.0	Sakkula .subramanyam	9493113278
ZPH/AVN/TG-Cohort-010	Pattapagalu.Teja	M	5	11	BC	G	148.0	2.20	29.6	13.4	▣				7	19.0	Pattapagalu.Ramaswamy	
ZPH/AVN/TG-Cohort-011	Dhulla Thimothi Raju	M	5	11	BC	G	129.4	1.67	24.9	14.9	▣				8	18.5	Dhulla Varahalu	
ZPH/AVN/TG-Cohort-012	Kaluboina Gangotri	F	5	9	BC	G	117.3	1.38	18.1	13.2	▣				7	16.5	Kaluboina Prakash	
ZPH/AVN/TG-Cohort-013	Tatiparti Ganilaxmi	F	5	5	BC	G	132.5	1.76	21.1	12.0	▣				7	16.1	Tatiparti Verrababu	
ZPH/AVN/TG-Cohort-014	Dulla Navyasri	F	5	9	BC	G	137.2	1.88	43.6	23.2			▣		9	25.5	Dulla Govind	
ZPH/AVN/TG-Cohort-015	Burra Uma Mahesh	M	5	11	BC	G	132.5	1.76	26	14.8	▣				8	18.5	Burra Veera Babu	7730842371

AV Nagaram

BASELINE INFORMATION for selected children in ZP High School, AV Nagaram, Thondangi Mandal (as on 20 September 2022)

	Cohort Details										Clasification of children according to BMI					Parent details	
Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Wright (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
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ZPH/AVN/TG-Cohort-016	Deeyyala Srija	F	6	10	SC	A	138.5	1.92	29	15.1	X				8	19		
ZPH/AVN/TG-Cohort-017	Chindada Prasanna	F	6	10	SC	A	131.0	1.72	24.8	14.4	X				8	19.0	Chindada Anandarao	7416721128
ZPH/AVN/TG-Cohort-018	Deeyala Madhu prema	F	6	10	SC	A	141.6	2.01	40.6	20.2			X		10	24.0	Deyyala Appa rao	9553418915
ZPH/AVN/TG-Cohort-019	Yadhala Rajeshwari	F	6	10	BC	G	131.5	1.73	33.5	19.4			X		10	22.5	Yadhala Apparao	9553402429
ZPH/AVN/TG-Cohort-020	Kondempudi Shesha rohini	F	6	10	BC	G	135.7	1.84	36.7	19.9			X		10	24.0	Kondempudi Suri Babu	9553512474
ZPH/AVN/TG-Cohort-021	Nemala Shiva Alekya	F	6	11	BC	G	146.5	2.15	41	19.1			X		9	23.0	Nemala Satyanarayana	8500569648
ZPH/AVN/TG-Cohort-022	Tadiparthi Prasanna	F	6	10	BC	G	135.5	1.84	28.2	15.4	X				8	19.5	Tadiparthi Veera Babu	9010821313
ZPH/AVN/TG-Cohort-023	Boddu Mojesh	M	6	11	SC	G	131.0	1.72	25.7	15.0	X				7	18.6	Boddu Srinu	9666148049
ZPH/AVN/TG-Cohort-024	Uggirala Satish	M	6	13	BC	A	144.4	2.09	40.2	19.3			X		8	22.3	Uggirala Venkata Ramana	6300127443
ZPH/AVN/TG-Cohort-025	Kaliboina Siva Satyanarayana	M	6	10	BC	A	125.7	1.58	20.2	12.8	X				7	14.8	Kaliboina Singanna	9347221145
ZPH/AVN/TG-Cohort-026	Satish Kakada	M	6	11	SC	A	128.8	1.66	24.7	14.9	X				8	18.1	Kakada Baburao	8367218478
ZPH/AVN/TG-Cohort-027	Ratna kumar yedida	m	6	10	SC	A	145.1	2.11	33	15.7	X				8	19.0	Yedida Yesu	9666544798
ZPH/AVN/TG-Cohort-028	Raliboyina Prabhas Kumar	M	6	10	BC	G	136.7	1.87	34.4	18.4		X			9	22.5	Raliboyina Krishna	
ZPH/AVN/TG-Cohort-029	Rapaka Harinag	M	6	12	BC	A	142.1	2.02	34.8	17.2		X			9	20.9	Rapaka Anil kumar	8184961027
ZPH/AVN/TG-Cohort-030	Nemala Jayababu	M	6	13	BC	G	152.0	2.31	47.2	20.4			X		10	25.0	Nemala Yesubabu	9959459756

AV Nagaram

BASELINE INFORMATION for selected children in ZP High School, AV Nagaram, Thondangi Mandal (as on 20 September 2022)

| | Cohort Details | | | | | | | | | | Clasification of children according to BMI | | | | | Parent details | |
Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings) in cm	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings) in mm	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/AVN/TG-Cohort-031	Nagalla Anu varalakshmi	F	7	13	BC	P	143.4	2.05	39.2	19.1			■		8	22.5	Nagalla Srinu	7659027607
ZPH/AVN/TG-Cohort-032	Komjula Ram Jyothi	F	7	12	BC	P	130.3	1.70	27.6	16.2	■				7	20.0	Komjula Sattibabu	9398574200
ZPH/AVN/TG-Cohort-033	Dhulla Anushka Devi	F	7	12	BC	P	149.8	2.24	38.7	17.2		■			7	21.0	Dhulla Dhorababu	9550729239
ZPH/AVN/TG-Cohort-034	Kandeli Divya	F	7	12	SC	G	144.2	2.08	32.8	15.8	■				7	20.0	Kandeli Ramanamma	9177582107
ZPH/AVN/TG-Cohort-035	Kaliboyina Srilakshmi	F	7	12	BC	P	124.4	1.55	24.3	15.7	■				7	19.2	Kaliboyina Nageshwara rao	3231051824
ZPH/AVN/TG-Cohort-036	Chindada Arpitha Madhuri	F	7	12	SC	G	146.5	2.15	38	17.7		■			8	21.5	Chindada Arjun Rao	8074137747
ZPH/AVN/TG-Cohort-037	Bondada Karuna Jyothi	F	7	12	SC	P	150.8	2.27	44.7	19.7			■		9	25.5	Bondada Nagarjuna	9392153003
ZPH/AVN/TG-Cohort-038	Dhulla Naga Satya Mani	F	7	12	BC	G	140.9	1.99	35.6	17.9		■			8	21.5	Dhulla Srinu	9014467779
ZPH/AVN/TG-Cohort-039	Bobbili Satish	M	7	13	BC	G	147.8	2.18	47	21.5			■		9	24.0	Bobbili Ramana	9010119628
ZPH/AVN/TG-Cohort-040	Perla Gopi	M	7	12	BC	A	149.3	2.23	40	17.9		■			8	22.4	Perla Srinu	9912866410
ZPH/AVN/TG-Cohort-041	Dimmi Kalyan	M	7	12	SC	A	133.5	1.78	33	18.5		■			7	21.0	Dimmi Lova Raju	9603436011
ZPH/AVN/TG-Cohort-042	Kaliboina Jagan	M	7	11	BC	P	131.3	1.72	26.5	15.4	■				7	18.0	Kaliboina Srinu	8185021801
ZPH/AVN/TG-Cohort-043	Ambujalapu.uma rajesh	M	7	13	BC	A	147.6	2.18	30.2	13.9	■				7	18.5	Ambujalapu.Ganga rao	9848142161
ZPH/AVN/TG-Cohort-044	Konjarla Lakshmanudu	M	7	11	BC	P	133.8	1.79	31.4	17.5		■			8	20.7	Konjarla Sathibabu	9398574200
ZPH/AVN/TG-Cohort-045	Kundala Yeshwanth	M	7	11	BC	G	143.1	2.05	25.23	12.3	■				7	16.6	Kundala Nageshwar Rao	
ZPH/AVN/TG-Cohort-046	Pirla Ganga Naga durga rao	M	7	11	BC	P	148.4	2.20	36	16.3	■				9	21.2	Pirla Krishna	9010224177
ZPH/AVN/TG-Cohort-047	Nakka Akhil	M	7	12	SC	P	133.1	1.77	26	14.7	■				8	20.0	Nakka Nani	9398412188

AV Nagaram

BASELINE INFORMATION for selected children in ZP High School, AV Nagaram, Thondangi Mandal (as on 20 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings) in cm	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Wreight (25.0 to 29.9)	Skinfold thickness (average of 3 readings) in mm	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/AVN/TG-Cohort-048	Medichetti shivani	F	8	12	BC	A	150.1	2.25	39.5	17.6		▇			9	21.0	Medichetti Veera Babu	
ZPH/AVN/TG-Cohort-049	Ambujalapu sarojini	F	8	12	BC	G	148.0	2.19	34.4	15.7	▇				8	18.3	Ambujalapu Satyanarayana	9848754543
ZPH/AVN/TG-Cohort-050	Kaliboyina sushma	F	8	13	BC	G	154.0	2.37	48.9	20.6			▇		9	24.7	Kaliboyina srinu	9912758464
ZPH/AVN/TG-Cohort-051	Gonibilli Anantha lakashmi	F	8	12	BC	G	156.9	2.46	37.3	15.2	▇				9	20.5	Gonibilli Suri Babu	9381869564
ZPH/AVN/TG-Cohort-052	Devyala navya kranthi	F	8	12	SC	G	139.4	1.94	49.6	25.5				▇	9	27.0	Devyala Appala Raju	9948115761
ZPH/AVN/TG-Cohort-053	Sidhanthapu Sridevi	F	8	12	SC	P	142.5	2.03	38.9	19.2			▇		8	21.5	Sidhanthapu Lova kumar	
ZPH/AVN/TG-Cohort-054	Peruri Vijayalakshmi	F	8	13	BC	G	148.0	2.19	33.7	15.4	▇				8	20.5	Peruri Srinu	9949153494
ZPH/AVN/TG-Cohort-055	Dayyala Sukumar	M	8	12	SC	A	144.1	2.08	52.3	25.2				▇	10	29.0	Dayyala Seetha ramulu	9948117241
ZPH/AVN/TG-Cohort-056	Dhulla SatyaManiKanta	M	8	13	BC	A	142.1	2.02	36.4	18.0		▇			9	24.0	Dhulla Srinu	
ZPH/AVN/TG-Cohort-057	Nadikatla Ganga Babu	M	8	13	BC	A	133.9	1.79	24.1	13.4	▇				7	18.0	Nadikatla Lova Raju	8639426151
ZPH/AVN/TG-Cohort-058	Sunny Uday Kiran	M	8	14	BC	G	167.8	2.82	54.2	19.2			▇		8	23.5	Sunny Srinu	9010116402
ZPH/AVN/TG-Cohort-059	Kaliboina Suresh	M	8	13	BC	G	146.4	2.14	35.4	16.5		▇			8	20.1	Kaliboina Srinu	8185021801
ZPH/AVN/TG-Cohort-060	Thalapanti Srinu	M	8	12	BC	P	132.9	1.77	28.3	16.0	▇				7	18.6	Thalapanti Nageshwar Rao	9390748837
ZPH/AVN/TG-Cohort-061	Kaliboyeena Sandeep	M	8	12	BC	G	137.9	1.90	30.5	16.0	▇				7	18.9	Kaliboyeena Tathabba	8309056542
ZPH/AVN/TG-Cohort-062	Koyya Anjani manikanta	M	8	13	BC	A	142.8	2.04	32.8	16.1	▇				8	20.5	Koyya Krishna	9010219892
ZPH/AVN/TG-Cohort-063	Tholum Sai vara Prasad	M	8	13	BC	A	155.8	2.43	52.1	21.5			▇		9	27.0	Tholum Simhadri	

Patha Chodipalli Peta,, Thondangi Mandal
Survey date: 21 September 2022

It is one of the old Upper Primary schools established in 1955. Presently it hosts 120 students, the majority from the BC community (Yadava and Balija). Girls traveling more than two kilometers to school are facilitated with bicycles by the APF and government under the bicycle scheme. Children accept mid-day meals with little complaints. A significant observation is that school surroundings are with garbage and un-hygienic, and even mid-day meals are also served un-hygienically.

The BMI classification highlights that a significant number of students are severely malnourished.

In % (n. 41)

68		
	15	
	17	
		0

Severly Underweight (<16.5)	Underweight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over weight (25.0 to 29.9)

BASELINE INFORMATION for selected children in MPUP Schools, Patha Chodipalli Peta, Thondangi Mandal (as on 21 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Clasification of children according to BMI				Skinfold thickness (average of 3 readings in mm)	Right upper arm circumfeerence (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
											Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Wwight (25.0 to 29.9)				
UPS/PCP/TG-Cohort-001	Kummari Meenakshi	F	5	10	BC	A	124.9	1.56	19.5	12.51	■				7	15.7	Kummari Rambabu	9493877159
UPS/PCP/TG-Cohort-002	Kollu Gangothri	F	5	11	BC	G	131.1	1.72	23.6	13.74	■				8	17.1	Kollu Srinu	6309559722
UPS/PCP/TG-Cohort-003	Ambujalapu Tulasi Jyothi	F	5	11	BC	A	127.6	1.63	22.9	14.04	■				8	17.0	Ambujalapu Ramakristna	7382165312
UPS/PCP/TG-Cohort-004	Ambujalapu Deepika	F	5	10	BC	G	126.6	1.60	24.4	15.19	■				7	17.6	Ambujalapu Chandra Rao	9441410811
UPS/PCP/TG-Cohort-005	Ambujalapu Durga srinu	M	5	12	BC	A	146.4	2.14	32.0	14.94	■				9	19.1	Ambujalapu satyanarayana	9491910638
UPS/PCP/TG-Cohort-006	Alla venkata sai durga	M	5	9	BC	P	125.0	1.56	20.9	13.38	■				7	15.0	Alla Guru Ganeshwar Rao	
UPS/PCP/TG-Cohort-007	Munasa Bharath	M	5	9	BC	G	130.0	1.69	24.9	14.75	■				8	17.9	Munasa Nageshwar Rao	
UPS/PCP/TG-Cohort-008	Ainavell Deekshitha	F	5	10	BC	P	135.8	1.84	23.4	12.71	■				9	16.9	Ainavell Venkataramana Rao	7337567855
UPS/PCP/TG-Cohort-009	Kummari Jyothi	F	5	10	Bc	A	128.9	1.66	22.4	13.50	■				9	16.2	Kummari Chinnamanabbayee	9949685699

Patha Chodipalli Peta

BASELINE INFORMATION for selected children in MPUP Schools, Patha Chodipalli Peta, Thondangi Mandal (as on 21 September 2022)

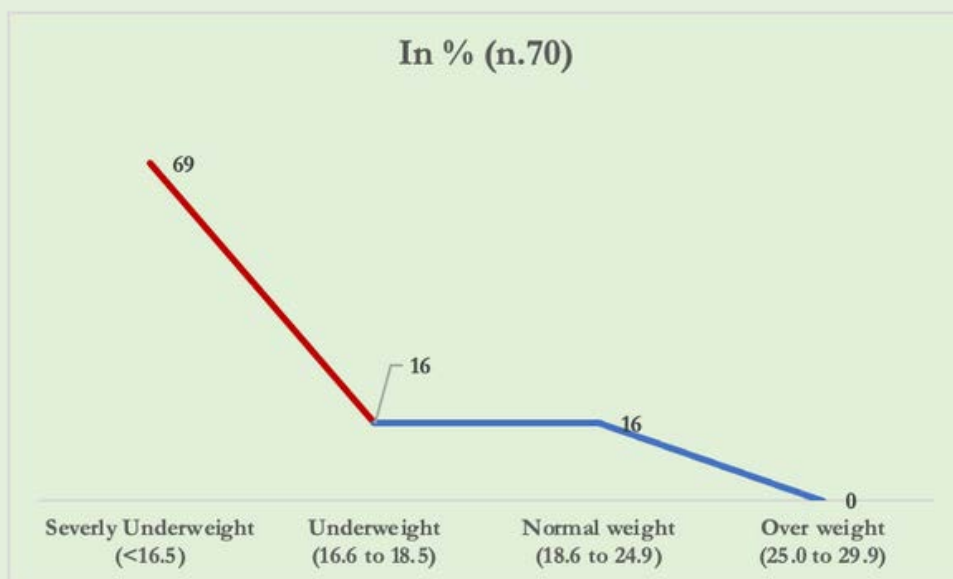| Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Wwight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumfeerence (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
UPS/PCP/TG-Cohort-010	Munasa Adi lakshmi	F	6	10	BC	G	129.6	1.69	26.6	15.74	X				9	19.4	Munasa Subba Rao	9398660905
UPS/PCP/TG-Cohort-011	Kadari Hari Priya	F	6	11	BC	A	134.4	1.81	26.2	14.51	X				8	17.5	Kadari Nageshwar Rao	
UPS/PCP/TG-Cohort-012	Maripilli Malliswari	F	6	12	BC	A	151.2	2.29	45.2	19.79			X		9	24.0	Maripilli Rambabu	9492217351
UPS/PCP/TG-Cohort-013	Thodala Devi Priya	F	6	12	BC	G	147.0	2.16	37.0	17.11		X			9	21.7	Thodala Nagesh	9494017440
UPS/PCP/TG-Cohort-014	Chodipalli Jyotsna	F	6	12	BC	A	135.6	1.84	27.3	14.84	X				8	18.1	Chodipalli Vijay Kumar	9494280412
UPS/PCP/TG-Cohort-015	Perumalla Blessy	F	6	12	BC	A	133.2	1.78	27.6	15.55	X				8	18.5	Perumalla Simhadhri	
UPS/PCP/TG-Cohort-016	Yerupalli Manasa	F	6	11	BC	A	133.3	1.78	26.0	14.66	X				7	17.1	Yerupalli Sridevi	
UPS/PCP/TG-Cohort-017	Velugu Devi	F	6	11	BC	A	136.3	1.86	25.3	13.63	X				7	17.5	Velugu Srinu	
UPS/PCP/TG-Cohort-018	Chepala Chinnari	F	6	12	BC	P	153.0	2.34	44.1	18.84			X		9	24.4	Chepala Bhagirthi	
UPS/PCP/TG-Cohort-019	Ambujalapu Ganesh manikanta	M	6	12	BC	A	151.0	2.28	55.9	24.53			X		10	27.0	Ambujalapu Konda babu	9493970618
UPS/PCP/TG-Cohort-020	Ambujalapu.Ramu	M	6	11	BC	A	125.0	1.56	26.5	16.93		X			9	20.5	Ambujalapu.Chander rao	9493970618
UPS/PCP/TG-Cohort-021	Ambujalapu.Laxman	M	6	11	BC	A	130.3	1.70	28.2	16.60		X			8	19.6	Ambujalapu chander rao	9490205449
UPS/PCP/TG-Cohort-022	Kummari.Anji babu	M	6	12	BC	A	138.6	1.92	33.8	17.59		X			8	21.4	Kummari.Nagesswer rao	
UPS/PCP/TG-Cohort-023	Munasa.Siva manikanta	M	6	14	BC	A	156.7	2.46	38.2	15.56	X				9	20.6	Munasa.Govindu	
UPS/PCP/TG-Cohort-024	Kummari.siva	M	6	13	BC	P	138.2	1.91	38.2	20.00			X		9	22.4	Kummari.Krishna	7901547506
UPS/PCP/TG-Cohort-025	Ambujalapu.Varahalu	M	6	13	BC	P	140.3	1.97	27.7	14.07	X				8	17.9	Ambujalapu.Srinivas	9491217208

Patha Chodipalli Peta

BASELINE INFORMATION for selected children in MPUP Schools, Patha Chodipalli Peta, Thondangi Mandal (as on 21 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Wwight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumfeerence (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
UPS/PCP/TG-Cohort-026	Kummari Nandini	F	7	13	BC	P	143.6	2.06	33.8	16.40	X				9	21.2	Kummari AppaRao	7416889226
UPS/PCP/TG-Cohort-027	Perumalla Krupa	F	7	12	BC	A	136.4	1.86	26.2	14.08	X				9	18.2	Perumalla Rama Rao	8500468128
UPS/PCP/TG-Cohort-028	Chepala Poleswari	F	7	12	BC	G	147.1	2.16	44.7	20.65			X		10	24.3	Chepala Masenu	8331927830
UPS/PCP/TG-Cohort-029	Chandaka Venkata Nooka Ratnam	F	7	11	BC	A	136.1	1.85	25.2	13.60	X				9	18.1	Chandaka Ramana	
UPS/PCP/TG-Cohort-030	Singiri sathwick	M	7	12	BC	A	144.3	2.08	33.3	15.99	X				9	19.2	Singiri Bujji	9493459647
UPS/PCP/TG-Cohort-031	Ambujalapu.Greeshma	F	7	12	BC	G	129.5	1.68	23.6	14.08	X				8	17.6	Ambujalapu.Vijaya laxmi	9492447917
UPS/PCP/TG-Cohort-032	Ambujalapu Sridhar	M	7	13	BC	G	126.3	1.60	37.7	23.61			X		8	19.5	Ambujalapu Kondaiah	9492225146
UPS/PCP/TG-Cohort-033	Mallipalli Issac	M	7	12	BC	A	138.4	1.92	26.1	13.62	X				8	17.4	Ambujalapu Jagan	9398742029
UPS/PCP/TG-Cohort-034	Perumalla Lokesh	M	7	12	BC	A	138.0	1.90	25.6	13.47	X				9	17.4	Ambujalapu Suribabu	9491256003
UPS/PCP/TG-Cohort-035	Kambala Shivaram	m	7	12	BC	A	136.5	1.86	37.5	20.12			X		10	23.2	Kambala Ammoji	
UPS/PCP/TG-Cohort-036	Anasuri.Verababu	M	7	12	BC	A	136.2	1.86	27.6	14.87	X				8	18.3	Anasuri.Prasad	9494747242
UPS/PCP/TG-Cohort-037	Dunga sravani durga devi	F	7	11	BC	P	143.5	2.06	48.5	15.99	X				8	19.0	Dunga lovaraju	9000083402
UPS/PCP/TG-Cohort-038	Chokka Ramesh	M	7	12	BC	G	135.5	1.84	45.8	15.60	X				9	18.3	Chokka Adinarayana	9392355882
UPS/PCP/TG-Cohort-039	Benugu Simhadri	M	7	12	BC	G	134.4	1.81	45.4	16.46	X				8	17.5	Benugu Ram babu	
UPS/PCP/TG-Cohort-040	Jella Ribka	F	7	12	BC	G	143.9	2.07	48.7	18.47		X			9	22.0	Jella Srinu	9494258859
UPS/PCP/TG-Cohort-041	Gangri Dhanalaxmi	F	7	12	BC	G	138.6	1.92	46.9	16.67		X			8	19.0	Gangri Applraju	9493732933

Mulapeta, U. Kothapalli Mandal
Survey date: 22 September 2022

Established in 1978, ZP High School is having 1012 student population. Most (90%) of the students are from BC community (Wada Balija, Devanga/Padmasali). Agriculture, non-agriculture, including fishing are the major forms of livelihoods to the parents. Most of the students (60%) are taking mid-day meals without any complaints. The rest take the meals occasionally when the contractor supply extra food item such egg fried-rice. This is the only school in the region having such facility.

The BMI classification highlights that a significant number of students are severely malnourished.

In % (n.70)

69
16
16
0

Severly Underweight (<16.5)   Underweight (16.6 to 18.5)   Normal weight (18.6 to 24.9)   Over weight (25.0 to 29.9)

Mulapeta

BASELINE INFORMATION for selected children in ZP high School in Mulapeta,U. Kothapalli Mandal (as on 22 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings) (in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/MPETA/TG-Cohort-001	Gorla.Bhavya Meghana	F	5	9	BC	G	135.2	1.83	22.7	12.4	■				7	16.0	Gorla.Appa Rao	9704804858
ZPH/MPETA/TG-Cohort-002	Malipeddhi.Karthi Sahithya	F	5	10	BC	G	134.8	1.82	26.1	14.4	■				8	18.1	Malipeddhi Esswar Papa Rao	9493749061
ZPH/MPETA/TG-Cohort-003	Adda Saranya Vijay Durga	F	5	9	BC	G	130.8	1.71	22.2	13.0	■				7	17.3	Adda Manga Rao	9492112797
ZPH/MPETA/TG-Cohort-004	Santhaka Veera Mani	F	5	10	BC	A	134.4	1.81	33.8	18.7			■		9	22.3	Santhaka .Suri Chekkar Rao	9640478411
ZPH/MPETA/TG-Cohort-005	Kadimichetti Mani Sri	F	5	10	OC	G	145.7	2.12	31.8	15.0	■				7	17.2	Kadimichetti Eswara Rao	8897114887
ZPH/MPETA/TG-Cohort-006	Yeditha Renuka	F	5	9	SC	P	130.4	1.70	24.9	14.6	■				7	17.9	Yeditha Pramodh	
ZPH/MPETA/TG-Cohort-007	Yedida.Siddu	M	5	10	SC	P	129.7	1.68	24.1	14.3	■				6	15.4	Yedida Balakrishna	9059548651
ZPH/MPETA/TG-Cohort-008	Kakada Kushal	M	5	9	SC	P	135.4	1.83	26.7	14.5	■				7	17.6	Kakada Veerababu	
ZPH/MPETA/TG-Cohort-009	Gosala Ramakrishna	M	5	10	BC	P	141.4	2.00	30.6	15.3	■				8	19.4	Gosala Kondababu	
ZPH/MPETA/TG-Cohort-010	Yalamanchiki Chandraprasad	M	5	9	BC	A	127.6	1.63	23.3	14.3	■				7	16.5	Yalamanchiki Yesubabu	9000103119
ZPH/MPETA/TG-Cohort-011	Dhammala Adarsha	M	5	12	BC	G	147.7	2.18	38.3	17.6		■			9	21.4	Dhammala Jyothiraju	8639231098
ZPH/MPETA/TG-Cohort-012	Esarapu Hemalatha	F	5	9	BC	P	122.8	1.51	20.9	13.9	■				7	16.8	Esarapu Srinu	9502229156
ZPH/MPETA/TG-Cohort-013	Alli.Sunitha	F	5	10	BC	A	145.7	2.12	32.6	15.4	■				9	20.7	Alli.Naga appala raju	7661008124
ZPH/MPETA/TG-Cohort-014	Kakada Gautham sandil	M	5	10	SC	G	141.8	2.01	32.6	16.2	■				9	20.2	Kakada Suresh	766008727
ZPH/MPETA/TG-Cohort-015	Ediitha Akash	M	5	10	SC	P	123.4	1.52	20.3	13.3	■				7	16.6	Ediitha Chanti	9059548651
ZPH/MPETA/TG-Cohort-016	Ravuri Charan teja	M	5	10	BC	P	142.7	2.04	36.3	17.8		■			9	22.0	Ravuri Goureshwar rao	
ZPH/MPETA/TG-Cohort-017	Dape Avinash Bhargav	M	5	10	BC	A	129.6	1.68	22.3	13.3	■				7	16.4	Dape Ramchander Rao	
ZPH/MPETA/TG-Cohort-018	Chokka Simhadri	M	5	10	BC	P	139.9	1.96	25.6	13.1	■				7	17.9	Chokka Kasulu	
ZPH/MPETA/TG-Cohort-019	Osipilli Sruthi	F	5	10	BC	A	137.8	1.90	27.7	14.6	■				7	17.6	Osipilli Prasad	9542557112

Mulapeta

BASELINE INFORMATION for selected children in ZP high School in Mulapeta,U. Kothapalli Mandal (as on 22 September 2022)

	Cohort Details										Clasification of children according to BMI						Parent details	
Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body Weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/MPETA/TG-Cohort-020	Shaik. Raja	M	6	10	OC	P	139.7	1.95	27.8	14.2	■				7	17.7	Shaik. Mahabub John	8297445004
ZPH/MPETA/TG-Cohort-021	Singirimala Yesobu	M	6	10	BC	A	137.5	1.89	27.8	14.7	■				7	18.0	Singirimala Srinu	7661043706
ZPH/MPETA/TG-Cohort-022	Santha Kristna	M	6	12	BC	A	151.9	2.31	44.9	19.5			■		9	24.2	Santha Aruna Naga Mani	9347545242
ZPH/MPETA/TG-Cohort-023	Mailapelli Poul	M	6	11	BC	G	133.4	1.78	32.2	18.1			■		9	21.9	Mailapelli Bulliabbaye	7661991419
ZPH/MPETA/TG-Cohort-024	Juthuka.Divya	F	6	11	SC	A	127.9	1.64	22.8	13.9	■				9	18.5	Juthuka.Posaiah	9381514942
ZPH/MPETA/TG-Cohort-025	Patri.Anjali	F	6	10	BC	A	135.3	1.83	31.2	17.0		■			9	19.5	Patri. Rajesh	8919501993
ZPH/MPETA/TG-Cohort-026	Sandaka Appala Raju	F	6	10	BC	A	137.8	1.90	31.2	16.4	■				9	20.7	Sandaka Srinu	7993441694
ZPH/MPETA/TG-Cohort-027	Surimalla Sanjana	F	6	9	BC	G	145.5	2.12	37.2	17.6		■			9	22.5	Surimalla jagandham	6309176443
ZPH/MPETA/TG-Cohort-028	Gosala Applakonda	M	6	11	BC	A	132.2	1.75	24.2	13.9	■				7	17.2	Gosala Simhadri	7095017691
ZPH/MPETA/TG-Cohort-029	Machaa Vasanthi	F	6	11	BC	P	126.6	1.60	22.8	14.2	■				7	17.6	Machaa Kameshwar Rao	9133195038
ZPH/MPETA/TG-Cohort-030	Piradhi chinnari	F	6	10	BC	A	130.4	1.70	28.5	16.8		■			8	19.6	Piradhi prasad	
ZPH/MPETA/TG-Cohort-031	Depa Charan	M	6	11	BC	G	143.6	2.06	27	13.1	■				7	17.2	Deepa Ramchander Rao	9505493638
ZPH/MPETA/TG-Cohort-032	Benda Rohitkumar	M	6	11	OC	G	130.7	1.71	21.7	12.7	■				7	16.6	Benda Prasad	7660054798
ZPH/MPETA/TG-Cohort-033	Chavukula Devi	F	6	11	BC	P	131.7	1.73	23.2	13.4	■				7	17.1	Chavukula Nageshwar rao	
ZPH/MPETA/TG-Cohort-034	Madi Ramalaxmi	F	6	11	BC	A	139.6	1.95	40.5	20.8			■		10	25.8	Madi Kondabalu	9912109840
ZPH/MPETA/TG-Cohort-035	Sappa Vijaya Ananda Laxmi	F	6	11	BC	G	142.6	2.03	37.6	18.5		■			9	22.3	Sappa Veerababu	6304476569
ZPH/MPETA/TG-Cohort-036	Kambala Pandu	M	6	11	BC	G	146.9	2.16	31.3	14.5	■				8	18.7	Kambala Maseru	9441048818
ZPH/MPETA/TG-Cohort-037	Macha Satheesh kumar	M	6	11	BC	G	134.1	1.80	26.6	14.8	■				9	17.8	Macha Swamy	7337252962
ZPH/MPETA/TG-Cohort-038	Deva Satyanarayana	M	6	10	BC	G	136.2	1.86	28.6	15.4	■				9	18.5	Deva Chandra Shekar	9063250351
ZPH/MPETA/TG-Cohort-039	Mailpalli Raju	M	6	11	BC	G	148.9	2.22	39.9	18.0		■			10	23.5	Mailpalli Eshwar Rao	

Mulapeta

BASELINE INFORMATION for selected children in ZP high School in Mulapeta,U. Kothapalli Mandal (as on 22 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings) in cm	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/MPETA/TG-Cohort-040	Polavarapu Thriveni	F	7	11	BC	P	145.7	2.19	34.7	16.3	■				9	21.5	Polavarapu Durga Prasad	9010554447
ZPH/MPETA/TG-Cohort-041	Kutha Chandrika	F	7	11	OC	A	137.4	1.89	35.8	19.0			■		8	23.1	Kutha Subbi Reddy	9701723220
ZPH/MPETA/TG-Cohort-042	Ganta Sanjana	F	7	11	SC	A	137.3	1.89	25.5	13.5	■				7	15.4	Ganta. Kondayya	7288094921
ZPH/MPETA/TG-Cohort-043	Gundubogula Deevena	F	7	11	OC	A	141.6	2.01	25.9	12.9	■				7	17.4	Gundubogula pedha kapu	7330981424
ZPH/MPETA/TG-Cohort-044	Mummidi Kristna veni	F	7	13	OC	A	141.5	2.00	30.9	15.4	■				8	19.2	Mummidi Satyam	8008028064
ZPH/MPETA/TG-Cohort-045	Pothula Sravya	F	7	11	SC	P	131.6	1.73	25.9	14.9	■				8	19.3	Pothula Ganga Babu	9505286068
ZPH/MPETA/TG-Cohort-046	Boddu Tharun teja	M	7	12	BC	P	142.7	2.04	29.9	14.7	■				7	18.4	Boddu Raju	8074682881
ZPH/MPETA/TG-Cohort-047	Matha Sanjana	F	7	11	SC	A	145.1	2.11	42.3	20.1			■		9	23.4	Matha shanthi	9951280867
ZPH/MPETA/TG-Cohort-048	Nakka Shirisha	F	7	13	Sc	A	151.0	2.28	40.6	17.8		■			8	20.6	Nakka Venu	849804212
ZPH/MPETA/TG-Cohort-049	Koda Mammulu babu	M	7	12	BC	A	140.3	1.97	27.3	13.9	■				7	17.5	Koda Konda babu	
ZPH/MPETA/TG-Cohort-050	Peddi reddy abhi ram	M	7	11	OC	G	150.2	2.26	33.7	14.9	■				8	18.9	Peddi reddy surya venkata rama	998979741
ZPH/MPETA/TG-Cohort-051	Komati Divya chendra	M	7	13	BC	P	153.0	2.34	38.7	16.5		■			8	19.9	Komati Nukaraju	8008056483
ZPH/MPETA/TG-Cohort-052	Katuri Abhilash	M	7	12	BC	A	145.1	2.11	28.8	13.7	■				7	17.7	Katuri Krishnamurthi	8096522817
ZPH/MPETA/TG-Cohort-053	Komathi Sai	M	7	11	BC	P	129.3	1.67	22.3	13.4	■				6	15.5	Komathi Rambabu	
ZPH/MPETA/TG-Cohort-054	Pulli Durgaprasad Reddy	M	7	11	OC	A	142.0	2.02	45.9	22.7			■		10	26.5	Pulli shyamsundar reddy	7993499332

Mulapeta

BASELINE INFORMATION for selected children in ZP high School in Mulapeta,U. Kothapalli Mandal (as on 22 September 2022)

Child unique ID	Name of the Student	Gender	Class	Age	Social Category	Overall Rating by class teacher (cognitive skills & performance)	Standing height (average of 3 readings in cm)	Standing hight in sq meters	Body weight (average of 3 readings in Kgs)	BMI	Severely Under Weight (<16.5)	Under Weight (16.6 to 18.5)	Normal weight (18.6 to 24.9)	Over Weight (25.0 to 29.9)	Skinfold thickness (average of 3 readings in mm)	Right upper arm circumference (average in cm.)	Father's/Mother's Name	Phone Number of the Parents
ZPH/MPETA/TG-Cohort-055	Kakada sandhya	F	8	12	SC	A	152.6	1.7	43.7	18.8			■		9	22.2	Kakada Chinnabbaye	9502183501
ZPH/MPETA/TG-Cohort-056	Raparthi Durga nandhini	F	8	12	BC	A	156.6	2.2	35.5	14.5	■				8	19.0	Raparthi Nagesh	9505562405
ZPH/MPETA/TG-Cohort-057	Nalla Sowjanya	F	8	13	OC	G	148.6	2.1	31.5	14.2	■				8	18.1	Nalla. Veeraswamy	9603744518
ZPH/MPETA/TG-Cohort-058	Boddu Nagamani	F	8	12	BC	G	151.1	1.5	35.6	15.6	■				8	19.0	Boddu Papa Rao	9908831834
ZPH/MPETA/TG-Cohort-059	Kandepalli Bharghavi	F	8	12	BC	A	146.9	2.1	33.7	15.6	■				8	19.4	Kandepalli Nageshwara Rao	9652266149
ZPH/MPETA/TG-Cohort-060	Gurajapu Sravanthi	F	8	12	BC	A	149.7	2.3	36.3	16.2	■				8	19.5	Gurajapu Lova Raju	8333946612
ZPH/MPETA/TG-Cohort-061	Pragada Shiva Gangothri	F	8	12	OC	G	148.0	2.0	31.1	14.2		■			7	17.7	Pragada Thrimurthulu	8106224235
ZPH/MPETA/TG-Cohort-062	Konada Prasad	M	8	15	BC	A	159.0	2.5	42.3	16.7			■		9	21.2	Konada suribabu	8187025595
ZPH/MPETA/TG-Cohort-063	Polavarapu Suryakarthik	M	8	13	BC	A	154.9	2.4	41.9	17.5	■				8	20.5	Polavarapu Lavaraju	
ZPH/MPETA/TG-Cohort-064	Surada Moshe	M	8	14	BC	A	158.8	2.5	39.5	15.7	■				8	20.8	Surada Ramana	8926058374
ZPH/MPETA/TG-Cohort-065	Madiki Anandkumar	M	8	15	BC	A	160.9	2.6	39.9	15.4					8	20.6	Madiki Rajesh	9493651570
ZPH/MPETA/TG-Cohort-066	Chokka Pandubabu	M	8	12	BC	A	158.6	2.5	56.3	22.4			■		10	27.4	Chokka Shivaji	
ZPH/MPETA/TG-Cohort-067	Chekka Praveen	M	8	12	BC	P	150.4	2.3	44.7	19.7			■		9	22.4	Chekka Ramanamma	9912457061
ZPH/MPETA/TG-Cohort-068	Damala Ajaykumar	M	8	14	BC	G	152.4	2.3	52.7	22.7			■		9	24.1	Damala Jyothi Raj	
ZPH/MPETA/TG-Cohort-069	Burra Manoj	M	8	12	BC	P	153.8	2.4	34.9	14.8	■				9	20.0	Burra Veera laxmi	8520074583
ZPH/MPETA/TG-Cohort-070	Merugu Charan	M	8	14	BC	G	146.6	2.1	41.1	19.1			■		10	23.5	Merugu Ram babu	9666127944

Index
  Overall Rating
  G = Good
   A = Average
   P = Poor

BMI
   Thick Red = severely   underweight
    Red = underweight
    Orange = normal weight
    Blue = over weight

Acknowledgements

Poverty Learning Foundation,
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HKM Charitable Foundation
C/0 Akshaya Patra Foundation, Sri Krishna Goseva Mandal
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