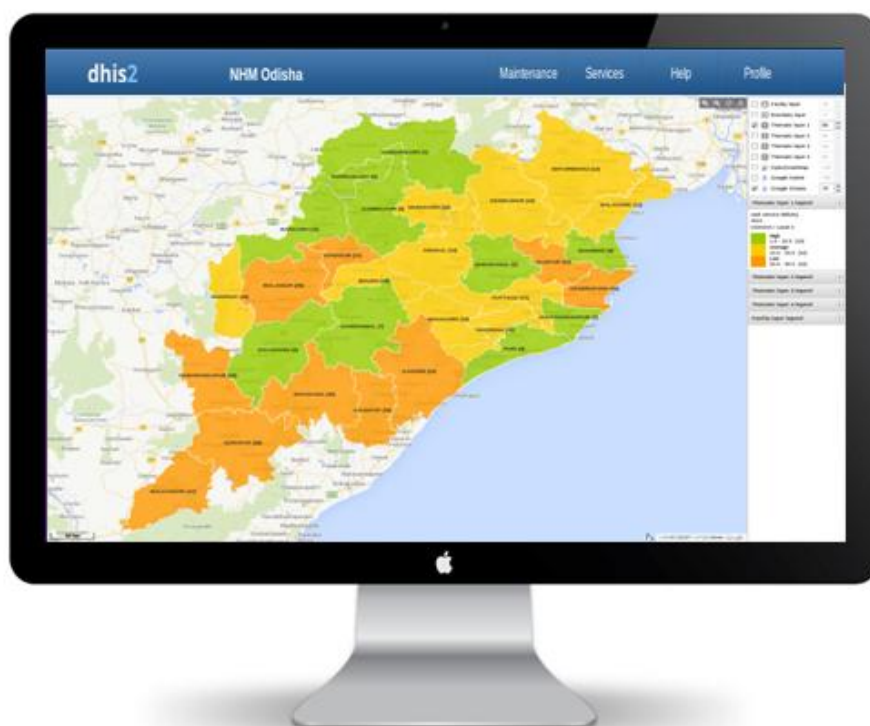# 2013

DHIS2   ODISHA HMIS ANALYSIS REPORT

Report on Districts Performance for Service delivery, Health Facilities Performance and Access to HealthCare

HISP INDIA
OPEN SOURCE FOR PUBLIC HEALTH

TABLE OF CONTENTS

INTRODUCTION

The state Odisha has made rapid and significant improvements in their HMIS, including strengthening the extent and quality of data coverage. This report firstly seeks to summarize key findings and key flags for service delivery performance, and also identify key areas for further strengthening. It provides information for strengthening evidence based decision making, and supporting practical action based on the information. The state has a database of all facility wise data, which allows analyzing for more detailed information and drilling down to health facilities. This report is a step in this direction of strengthening and institutionalizing analysis and feedback processes among the districts of Odisha. It has three main sections namely service delivery performance, health facilities performance and access to health care among the districts of Odisha.

Service delivery performance looks into continuum of care across life stages from pregnancy care, child birth, PNC & Newborn care and Reproductive age group and in specific district wise percentage of service delivery compared with state's average for scoring and ranking of districts based on the performance. Districts are looked for institutional deliveries also home deliveries by trained birth attendants, timely antenatal services etc and drilled down to health facility level (CHC, PHC, SC) wherever needed.

The report aims at more intensive utilization of existing rural health infrastructure and seeks to identify the facilities which are not provided services based on reported facility wise data from Apr to Oct 2013 for each district of Odisha. The number of SCs, PHCs and CHCs which are not provided ANC, delivery, PNC, Newborn, Child Immunisation and FP services district wise for Odisha are listed and scored.

To identify gaps and dropouts among the districts of Odisha and a step forward to overcome social or geographical barriers to access, the report has assessed the districts health care access based on 7 key indicators which are referred from HMIS resource person's manual. The identified districts needs intervention for improving access to health care and the state can act upon so as to deliver full package of services to these areas which is much needed.

The service delivery performance of districts is assessed based on 16 Key indicators from HMIS based dashboard monitoring system. The health facilities performance is scored based on 41 indicators to identify the % of facilities not providing services like ANC, delivery, PNC, Newborn etc for SCs, PHCs and CHs for all districts of Odisha. The districts are scored for access to health care based on 7 key indicators. Each section has scored and ranking of districts has done based on Z-score.

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CONCEPTUAL FRAMEWORK

ANALYSIS REQUIREMENTS FROM STATE

Districts ranking with indicators to assess health facilities, service delivery and functional delivery points

1. District wise - No of facilities providing birth immunization

2. District wise - No of facilities providing Family planning service

3. District wise - No of facilities providing CS service

4. District wise - % PW staying > 48 hr after delivery

5. District wise - % of Sub center conducting delivery

6. District wise - % of PHC conducting delivery

7. District wise - % of Sub center conducting delivery

8. District wise - % facility maintaining delivery status as per norm

9. District wise -No of Delivery Points with functional NBCC (As on 30.7.2013)

10. District wise -% Post partum sterilization out of total sterilization

11. District wise -% male sterilization

12. District wise -% JSY payment out of total delivery etc.

SERVICE DELIVERY

STRATEGIC RMNCH+A INTERVENTIONS ACROSS LIFE STAGES

The overview of the key RMNCH+A interventions as a 'continuum of care' is provided in different life stages as shown in the figure below. There are set of interventions at these stages are shown to have high impact on reducing mortality and improving survival, and most of them have been part of the previous phase of NRHM. The effectiveness of these interventions is determined by the coverage achieved among the affected fraction of population as also the availability, accessibility, actual utilization of services and quality of service delivered. Therefore, it is important that 'Bottleneck Analysis' be carried out at various levels of planning, including the state and district level in order to prioritize attention to address specific gaps in the delivery of a particular intervention or set of interventions.

Source: A Strategic Approach to Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH +A) in India, MOHFW (GOI)

List of Indicators for Dashboard

Proportion of:
- 1st Trimester registration to total ANC registration
- Pregnant women received 3 ANC to total ANC registration
- Pregnant women given 100 IFA to total ANC registration
- Cases of pregnant women with Obstetric Complications and attended to reported deliveries
- Pregnant women receiving TT2 or Booster to total ANC registration

Proportion of:
- Post-partum sterilization to total female sterilization
- Male sterilization to total sterilization
- ICUD insertions in public plus private accredited institutions to all family planning methods (ICUD plus permanent)

Pregnancy care

Reproductive age group

Child birth

Postnatal maternal & New born care

Proportion of:
- SBA attended home deliveries to total reported home deliveries
- Institutional deliveries to total ANC registration
- C-Section to reported deliveries

Proportion of:
- Newborns breast fed within 1 hour to total live births
- Women discharged in less than 48 hours of delivery in public institutions to total number of deliveries in public institutions
- Newborns weighing less than 2.5 kg to newborns weighed at birth
- Newborns visited within 24hrs of home delivery to total reported home deliveries
- Infants 0 to 11 months old who received Measles vaccine to reported live births

The Indicators to assess the service delivery for districts of Odisha are listed under chapter named Indicators. Please refer the chapter for more details.

HEALTH FACILITIES PERFORMANCE

In Odisha health facility type wise performance has assessed for SCs, PHCs and CHCs district wise. For SCs, the percentage of facilities providing ANC, delivery, Immunization, FP, lab, OPD and VHND and identified the percentage of SCs not reported these services district wise for Odisha from Apr to Oct 2013. For PHCs, the percentage of facilities providing all the services provided by SCs plus IPD and identified the percentage of PHCs not providing the services district wise for Odisha. Similarly for CHCs, Cataract operation, Major surgeries, severe anemia treated plus all the services provided by PHCs are considered and identified the percentage of CHCs not reported for each service by indicators. The list of indicators for SCs, PHCs and CHCs to measure the health facilities performance are listed under chapter Indicators. Please refer the Indicators chapter to know more.

SC	•ANC, Delivery, IUD, Immunisation •OPD, Hb test, VHND
PHC	•ANC, Delivery, IUD, Immunisation •OPD, IP, Lab (Hb, widal, Blood smears, VDRL, HIV)
CHC	•ANC, Delivery including c-sec, Severe anaemia treated, IUD, Sterilisation, Immunization •Cataract, Major surgeries, IP, Lab (Hb, Blood smears, VDRL, Widal, HIV)

Facilities not reported for providing services can be any of the following

1. Beneficiaries/ Patients (no case during the month)

2. Infrastructure (facilities/amenities not available or not working condition)

3. Human Resources (Health provider/ MO not available/ Lack of staff)

4. Inadequate training

ACCESS TO HEALTH CARE

Understanding Access to Health care: especially the public health system: This has implications for development of new facilities, for planning health education to communities, planning efforts to overcome social or geographic barriers to access. It may also indicate the need to improve functioning of health facilities in that area. Where there is potential universal access as evidenced by even one antenatal check up or one immunization dose, the reasons for the inability to deliver the full package of services with necessary quality must be identified and acted upon. Decline in reach is also a good indicator of access like dropout rates.

Source: HMIS Resource Persons Manual

Gaps/ Outreach	•ANC registration against estimated Pregnancies •ANC 3rd visit against estimated pregnancies •Non-SBA home delivery rate •Full Immunized under 1 year against estimated live births
Dropout	•ANC 1st to 3rd visit drop out rate •BCG to DPT-3 drop out rate •BCG to Measles drop out rate

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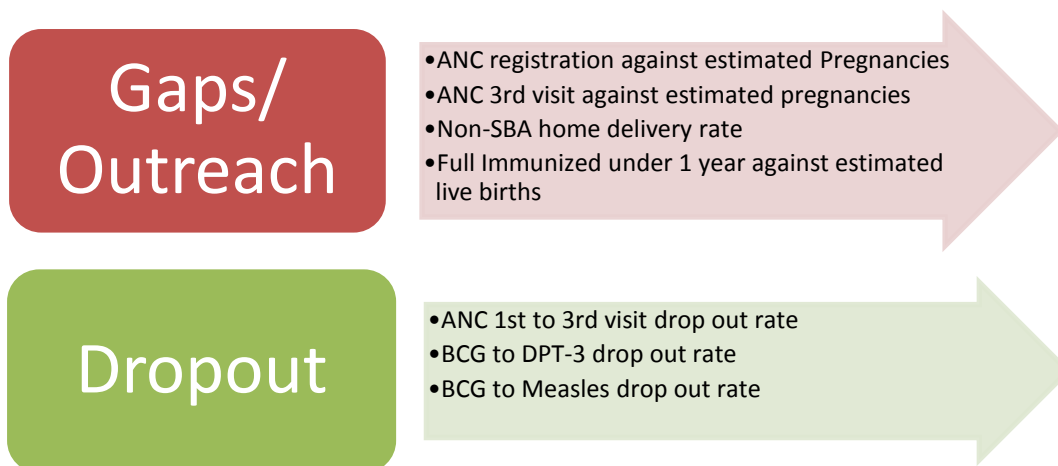
METHODOLOGY

HMIS BASED DASHBOARD MONITORING SYSTEM

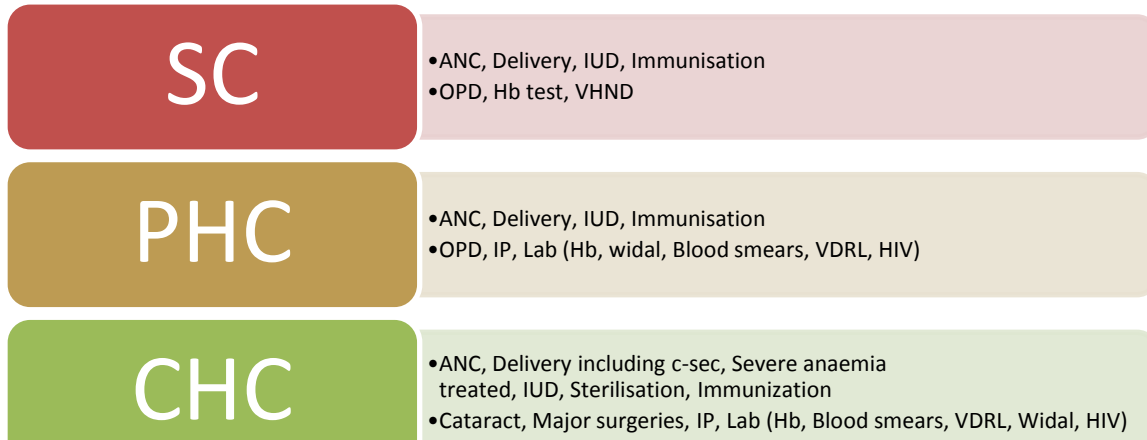Score card for 16 Indicators to assess service delivery based on life cycle approach.

Source: A Strategic Approach to Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH +A) in India, MOHFW (GOI)

- Odisha state's average for each indicator for each district is taken as the reference point.

- Districts score is determined based on the state's average.

- All the indicator scores for each district will be consolidated as district score.

- All indicators have the same weightage.

- Districts have been classified into four categories based on the indicator scores (based on four quartiles).

- Positive scores from 1 to 4 for those above the State's average (for positive indicators) and for those below the State's average (for negative indicators).

- Negative scores -1 to -4 for those below State's average (for positive indicators) and for those above State's average (for negative indicators).

- Each district has to be looked for aggregated score for each indicator group.

- Z-score is calculated from the total score for each district.

- Based on the Z-score, each district will have rank from 30 to 1.

As a result, districts ranking for service delivery, health facilities performance and health care access are calculated for each domain. Also overall scoring and ranking of districts based on 16 indicators for service delivery, 41 indicators for health facilities performance and 7 indicators for health care access.

Data source: DHIS2 NRHM Odisha

Period of Analysis: Apr to Oct 2013

Tools used: DHIS2 (Data Analyser, Data Visualizer, Pivot table, GIS) Version 2.12

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INDICATORS & SCORING			
Domains	**Indicators**	**Max Score**	**Min Score**
Service Delivery	**16**	+4	-4
Health Facilities Performance	**41**	+4	-4
SCs	8		
PHCs	15		
CHCs	18		
Health Care Access	**7**	+4	-4
Total	64		

INDICATORS

TO ASSESS SERVICE DELIVERY

16 KEY INDICATORS TO ASSESS SERVICE DELIVERY			
A	**PREGNANCY CARE**	**C**	**POSTNATAL MATERNAL & NEWBORN CARE**
1	ANC Registration in 1st Trimester Rate	9	% Women Discharged under 48 hours Rate
2	ANC 3rd Visit Coverage Rate	10	% Home Delivery Newborn Visit Rate
3	ANC 100 IFA Coverage Rate	11	% Newborn Weight Less than 2500 gms
4	ANC TT2/ Booster Coverage Rate	12	% Newborn Breastfed within 1 hour Rate
5	Complicated Pregnancies Attended Rate	13	% Full Immunized under 1 year against live birth
B	**CHILD BIRTH**	**D**	**REPRODUCTIVE AGE GROUP**
6	% SBA Delivery to Total Home Delivery	14	% Post-partum Sterilization to Total Female Sterilization
7	% Institutional Delivery to Total ANC Registration	15	% Male Sterilization to Total Sterilization
8	% Caesarean section to Total Institutional Deliveries	16	% IUCD against Total FP (Sterilization + IUCD)

Source: A Strategic Approach to Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH +A) in India, MOHFW (GOI)

TO ASSESS HEALTH FACILITIES PERFORMANCE

8 KEY INDICATORS TO ASSESS HEALTH FACILITY PERFOMANCE (SC)			
A	ANTENATAL NATAL CARE (ANC)	E	LAB
1	% Sub-Centres not reported ANC Registration	6	% Sub-Centres not reported Hb tested
2	% Sub-Centres not reported ANC Hypertension new case	F	OPD
B	DELIVERY	7	% Sub-Centres not reported OPD attendance
3	% Sub-Centres not conducting deliveries	G	VHND
C	IMMUNIZATION	8	% Sub-Centres not reported VHND
4	% Sub-Centres not reported DPT-3 dose given under 1 year		
D	FAMILY PLANNING		
5	% Sub-Centres not reported IUD insertion		

15 KEY INDICATORS TO ASSESS HEALTH FACILITY PERFOMANCE (PHC)			
A	ANTENATAL NATAL CARE (ANC)	E	LAB
1	% PHCs not reported ANC Registration	9	% PHCs not reported Hb tested
2	% PHCs not reported ANC Hypertension new case	10	% PHCs not reported blood smears examined
B	DELIVERY	11	% PHCs not reported widal tests conducted
3	% PHCs not conducting deliveries	12	% PHCs not reported VDRL tests conducted
4	% PHCs not attended complicated pregnancies	13	% PHCs not reported HIV tests conducted
C	IMMUNIZATION	F	OPD
5	% PHCs not reported DPT-3 dose given under 1 year	14	% PHCs not reported OPD attendance
6	% PHCs not reported live births weighing	G	IP
D	FAMILY PLANNING	15	% PHCs not reported IP admissions
7	% PHCs not reported IUD insertion		
8	% PHCs not reported sterilization		

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18 KEY INDICATORS TO ASSESS HEALTH FACILITY PERFOMANCE (CHC)			
A	ANTENATAL NATAL CARE (ANC)	E	LAB
1	% CHCs not reported ANC Registration	11	% CHCs not reported Hb tested
2	% CHCs not reported ANC Hypertension new case	12	% CHCs not reported blood smears examined
B	DELIVERY	13	% CHCs not reported widal tests conducted
3	% CHCs not conducting deliveries	14	% CHCs not reported VDRL tests conducted
4	% CHCs not attended complicated pregnancies	15	% CHCs not reported HIV tests conducted
5	% CHCs not reported caesarean section	F	Cataract
6	% CHCs not reported severe anemia treated	16	% CHCs not reported cataract operation
C	IMMUNIZATION	G	Major Operation
7	% CHCs not reported DPT-3 dose given under 1 year	17	% CHCs not reported major surgeries
8	% CHCs not reported live births weighing	H	IP
D	FAMILY PLANNING	18	% CHCs not reported IP admissions
9	% CHCs not reported IUD insertion		
10	% CHCs not reported sterilization		

To Assess Health Care Access

7 KEY INDICATORS TO HEALTH CARE ACCESS			
A	PREGNANCY CARE	C	CHILD IMMUNIZATION
1	ANC Registration against estimated pregnancies	5	BCG to DPT-3 drop out rate
2	ANC 3rd visit against estimated pregnancies	6	BCG to Measles drop out rate
3	ANC 1st to 3rd visit dropout rate	7	Full Immunized child under 1 year against estimated live births
B	DELIVERY		
4	% Home delivery by Non-Skilled birth attendant		

Source: HMIS Resource Persons Manual

KEY FINDINGS

ANTE-NATAL CARE SERVICES

➢ The Percentage of women registered for Ante-Natal Care services is 84% for Odisha.

➢ The percentage of pregnant women registered within 1st trimester for Odisha is 51%.

➢ The percentage of pregnant women received 100 IFA tablets for Odisha is 76% against reported ANC registrations and 64% against estimated pregnancies.

➢ Boudh, Sonapur, Khordha and Cuttack districts are showing very less % for ANC coverage services.

➢ Boudh, Sonapur, Cuttack and Khordha districts show 58, 65, 70, 71 % respectively for ANC registration against estimated pregnancies. This shows high pregnancies missed out in these districts.

➢ Boudh, Khordha, Sonapur and Cuttack districts show 52, 56, 62 and 64 % respectively for ANC third visit coverage rate from Apr to Oct 2013.

➢ The percentage of pregnant women received 3 ANC is estimated as 74 for Odisha.

➢ The percentage of pregnant women received ANC TT2/ Booster dose is estimated as 77 for Odisha.

➢ Boudh and Sonapur districts show 37% and 40% for ANC 100 IFA coverage rate against estimated pregnancies.

➢ 10% of all deliveries are reported as complicated pregnancies in Odisha.

DELIVERY CARE

➢ 10% of home deliveries are reported as delivery conducted by Skilled Birth Attendants (SBA)

➢ 10% of Institutional deliveries are reported as caesarean section in Odisha.

➢ The percentage of institutional deliveries against total ANC registration for Odisha is 77.

➢ The percentage of deliveries discharged less than 48 hrs for Odisha is 63.

➢ In Sambalpur district, only 13% of deliveries are discharged within 48 hrs and it shows good practice.

POST-NATAL CARE & NEWBORN CARE

➢ The percentage of newborns breastfed within 1 hr rate for Odisha is 94%.

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➤ Kendrapara district shows 72% for Newborns breastfed within 1 hr rate and this is because Kendrapara DHH shows very less percentage. This may be either reporting issues or actual less % are breastfed.

➤ 70% of home deliveries are reported to have newborn visited within 24 hours for Odisha.

➤ The percentage of babies weighed less than 2.5 kgs for Odisha is 17.

➤ The Percentage of full immunized child under 1 year against estimated live births for Odisha is 80.

FAMILY PLANNING SERVICES

➤ The Percentage of Post-partum sterilization against total female sterilization is 11 for Odisha.

➤ 2% of total sterilization is conducted on males for Odisha.

➤ The percentage of IUCD against all FP methods including permanent plus IUCD for Odisha is 64.

KEY FLAGS

ANTE-NATAL CARE SERVICES

➤ Nearly 16% of pregnant women are estimated to not have availed Ante-Natal Care services in Odisha.

➤ Most of the deliveries in Kasinagar CHC of Gajapati districts are reported as complicated pregnancies. It needs to be enquired whether they are all complicated pregnancies or reporting issues.

➤ VSSMC Burla of Sambalpur districts has not reported any complicated pregnancies attended from Apr to Oct 2013.

DELIVERY CARE

➤ Jajapur, Kendujhar, Mayurbhanj, Nabarangapur and Sambalpur districts shows less % for SBA delivery to total home delivery.

➤ Gajapati district shows 52% institutional deliveries against total ANC registered and when we refer ANC registration against estimated pregnancies, it shows 104 % and it implies that there is more % of unreported deliveries in Gajapati.

- ➢ Angul district shows only 2% for caesarean section delivery rate and the state's average is 10%.

- ➢ Sambalpur district shows 20% for caesarean section delivery rate and state's average is only 10%.

- ➢ 92% of institutional deliveries are discharged under 48 hrs of delivery in Boudh district.

POST-NATAL CARE & NEWBORN CARE

- ➢ 30% of Home deliveries in Odisha have not reported to have newborn visited within 24 hours of delivery.

- ➢ Jajapur district shows only 43% of home deliveries where newborn visited within 24 hours. Blocks of Jajapur districts shows very less percentage for home delivery newborn visited within 24 hrs rates.

- ➢ Khandamal district shows 26% for low birth weight babies (less than 2.5 kgs) and SCs of Daringibadi Block has reported more LBW babies and this may be due to reporting issues.

- ➢ Boudh, Sonapur, Koraput, Khordha and Cuttack districts shows 63, 67, 70, 71 and 72 % respectively for full immunized child less than 1 year against estimated live births.

FAMILY PLANNING SERVICES

- ➢ Boudh, Cuttack and Puri districts shows very less post-partum sterilization against total female sterilization.

- ➢ 18 districts showing less than 1% for Male sterilization against total sterilization.

- ➢ Malkangiri, Gajapati, Sonapur and Rayagada districts show only 41, 44, 45 and 49% respectively for IUCD against total FP methods including permanent plus IUCD.

SERVICE DELIVERY PERFOMANCE

ANC REGISTRATION WITHIN 1ST TRIMESTER RATE
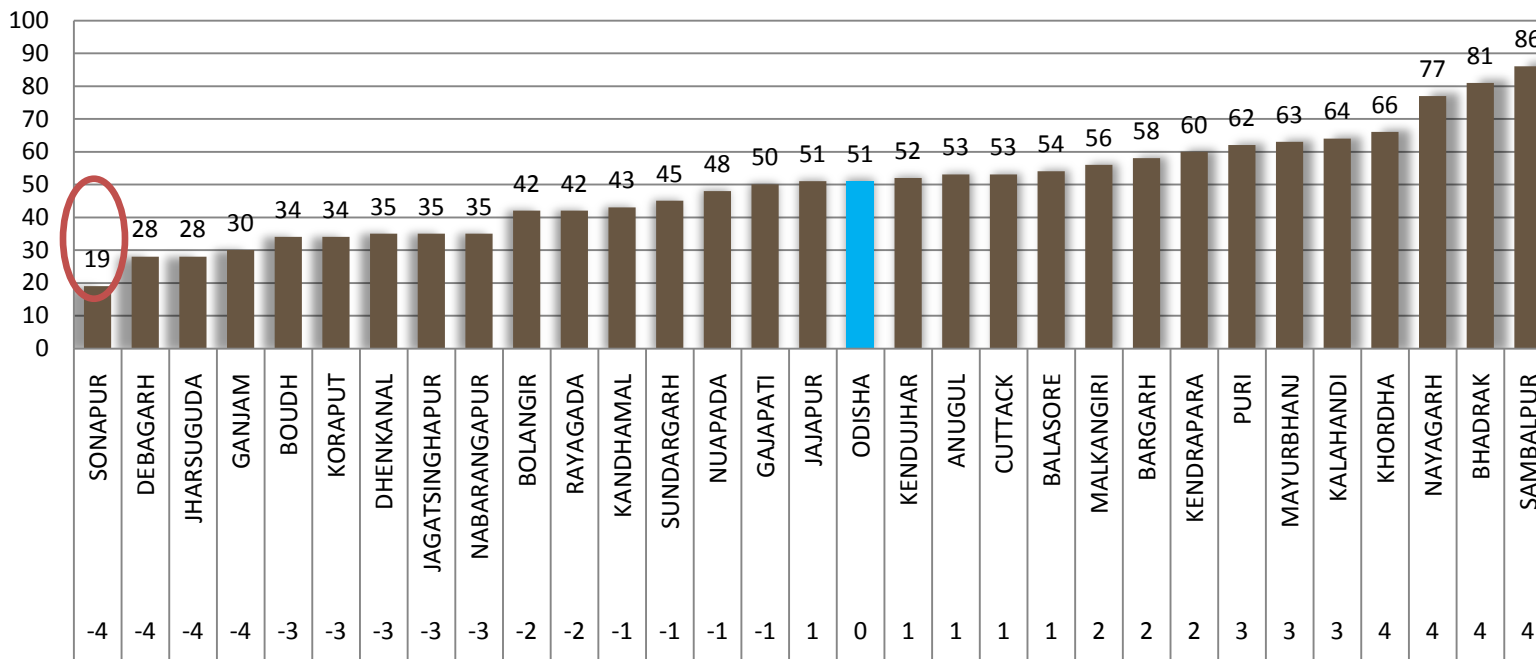
The State shows 51% for ANC registration within 1st trimester rate for 2013. Sonapur, Debagarh, Jharsuguda and Ganjam districts show 19, 28, 28 and 30 and when we drill down to Sonapur districts, Dunguripalli Block shows very less % for ANC registration in 1st trimester rate.

DRILL DOWN TO HEALTH FACILITIES OF SONAPUR DISTRICT

ANC registration in 1st trimester rate

■ ANC in first trimester (Early registration)
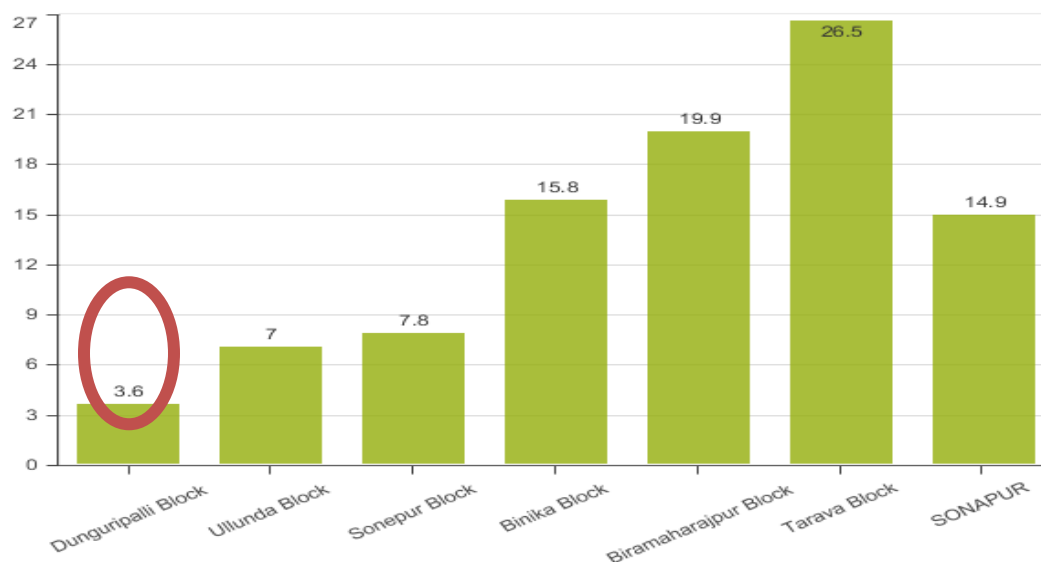
Blocks of Sonapur District

Sub-Centres reported zero ANC registered within 1st trimester (Apr – Oct 2013)														
2013	**Apr**		**May**		**Jun**		**Jul**		**Aug**		**Sep**		**Oct**	
SCs of Dunguripalli Block	**ANC Reg**	**ANC 1st trim**	**ANC Reg**	**ANC 1st trim**	**ANC Reg**	**ANC 1st trim**	**ANC Reg**	**ANC 1st trim**	**ANC Reg**	**ANC 1st trim**	**ANC Reg**	**ANC 1st trim**	**ANC Reg**	**ANC 1st trim**
Bankipalli SC	7	0	9	0	8	0	11	0	5	0	4	0	8	0
Beheramal SC	11	0	8	0	10	1	4	0	6	0	6	0	4	0
Cherupalli SC	11	0	6	0	8	0	13	0	11	0	9	0	5	0
Chinajuri SC	4	0	5	0	7	0	6	0	2	0	3	0	3	0
Digsira SC	6	0	7	0	15	0	7	0	9	0	9	0	6	0
Gajbandh SC	19	0	7	0	10	0	8	0	4	0	12	0	7	0
Karlajuri SC	10	0	10	0	7	0	12	0	7	0	1	0	5	0
Lingmarni SC	5	0	4	0	3	0	3	0	3	0	1	0	4	0
Sahala SC	9	0	9	0	13	0	7	0	9	0	4	0	10	0
Salepali1 SC	9	0	5	0	10	0	4	0	12	0	5	0	8	0
Sukha SC	10	0	6	0	12	0	10	0	11	0	2	0	1	0
Tamamura SC	13	0	11	0	11	0	12	0	12	0	6	0	10	0
Rampur SC	9	0	13	0	7	0	9	0	10	0	5	0	14	0
Dunguripalli Block	**185**	**12**	**149**	**5**	**192**	**7**	**177**	**23**	**150**	**7**	**112**	**3**	**144**	**7**

Odisha HMIS Analysis Report 2013

ANC 100 IFA COVERAGE RATE
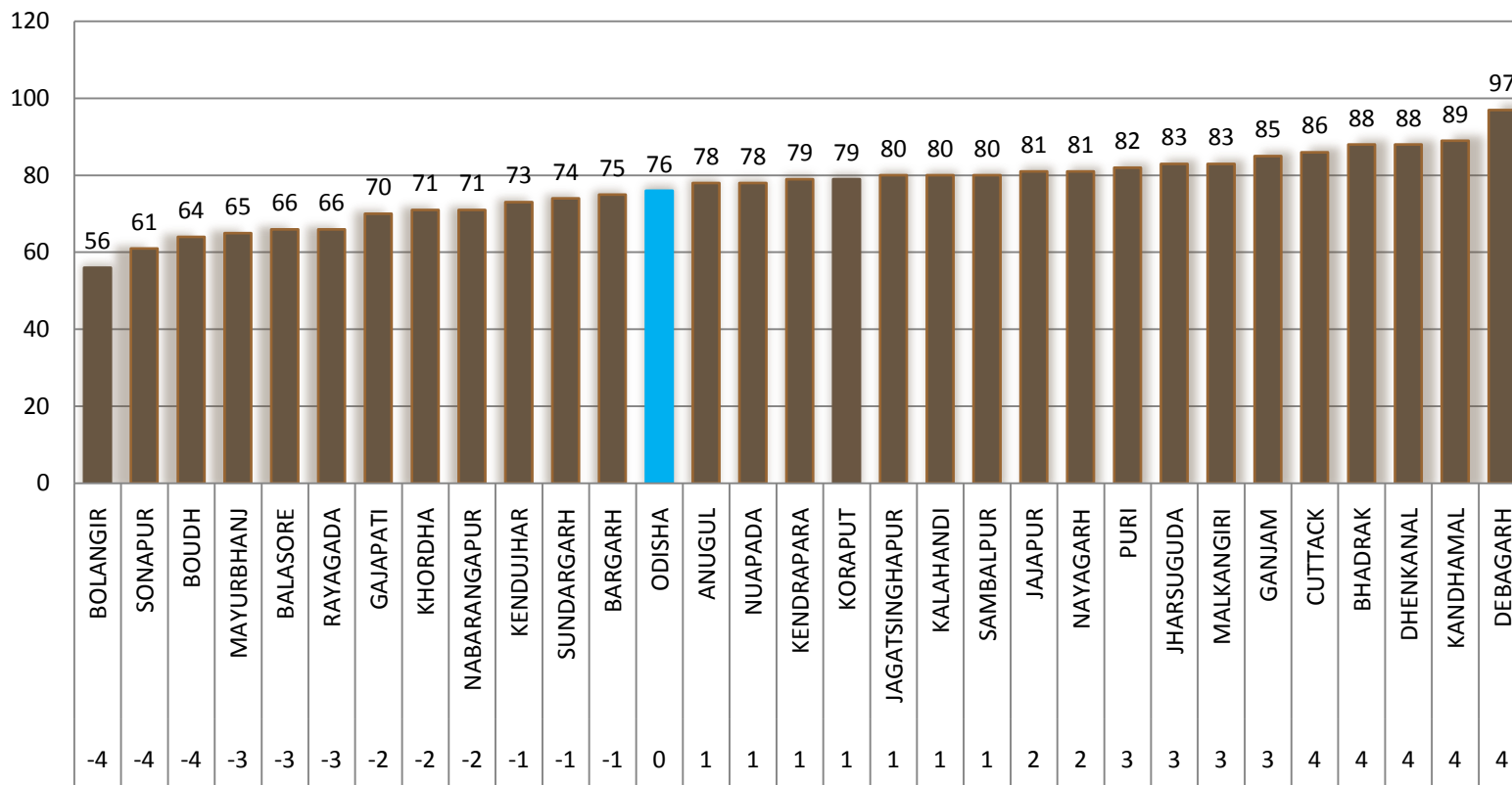
Bolingir, Sonapur, Boudh districts show 56, 61 and 64 % respectively for ANC 100 IFA coverage rate from Apr to Oct 2013.

ANC THIRD VISIT COVERAGE RATE

78	78	79	81	81	84	85	85	86	87	87	87	88	88	88	88	89	89	89	90	90	90	91	91	92	93	93	96	97	98	98

Districts: BOLANGIR, KHORDHA, NABARANGAPUR, GAJAPATI, KORAPUT, NAYAGARH, BALASORE, RAYAGADA, NUAPADA, BARGARH, KALAHANDI, MALKANGIRI, KENDRAPARA, MAYURBHANJ, PURI, ODISHA, ANUGUL, BHADRAK, JHARSUGUDA, JAJAPUR, KANDHAMAL, KENDUJHAR, BOUDH, CUTTACK, SAMBALPUR, GANJAM, JAGATSINGHAPUR, SONAPUR, DHENKANAL, DEBAGARH, SUNDARGARH

| -4 | -4 | -4 | -3 | -3 | -3 | -2 | -2 | -2 | -1 | -1 | -1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |

Districts of Odisha show high % for ANC third visit coverage rate from Apr to Oct 2013 when calculated against reported pregnancies registered. For more detailed information for ANC coverage against estimated pregnancies, the picture complete shows different scenario which has shown in Discussion.

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ANC TT2/ BOOSTER COVERAGE RATE
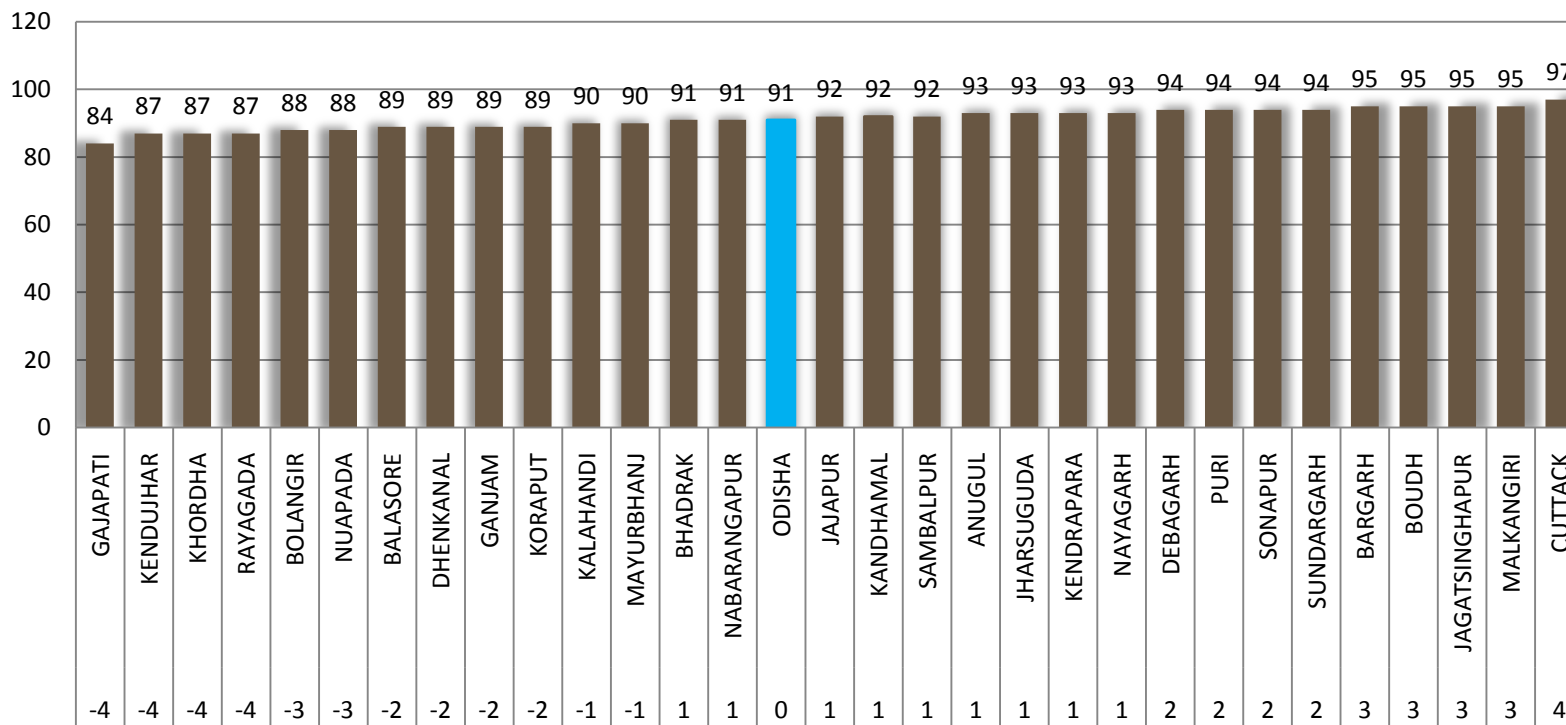
All the districts of Odisha shows high % for ANC third visit coverage rate, ANC TT2/ Booster coverage rate when against reported pregnancies registered. To look into more detailed for these coverage rates, the indicator denominator reference has changed for estimated pregnancies from Apr to Oct for all the districts and the information gives us clear picture of ANC coverage rate which is completely different from above as shown below under discussion.

DISCUSSION ON ANC COVERAGE

1. ANC REGISTRATION RATE AGAINST ESTIMATED PREGNANCIES

ANC Registration Rate Against Estimated Pregnancies
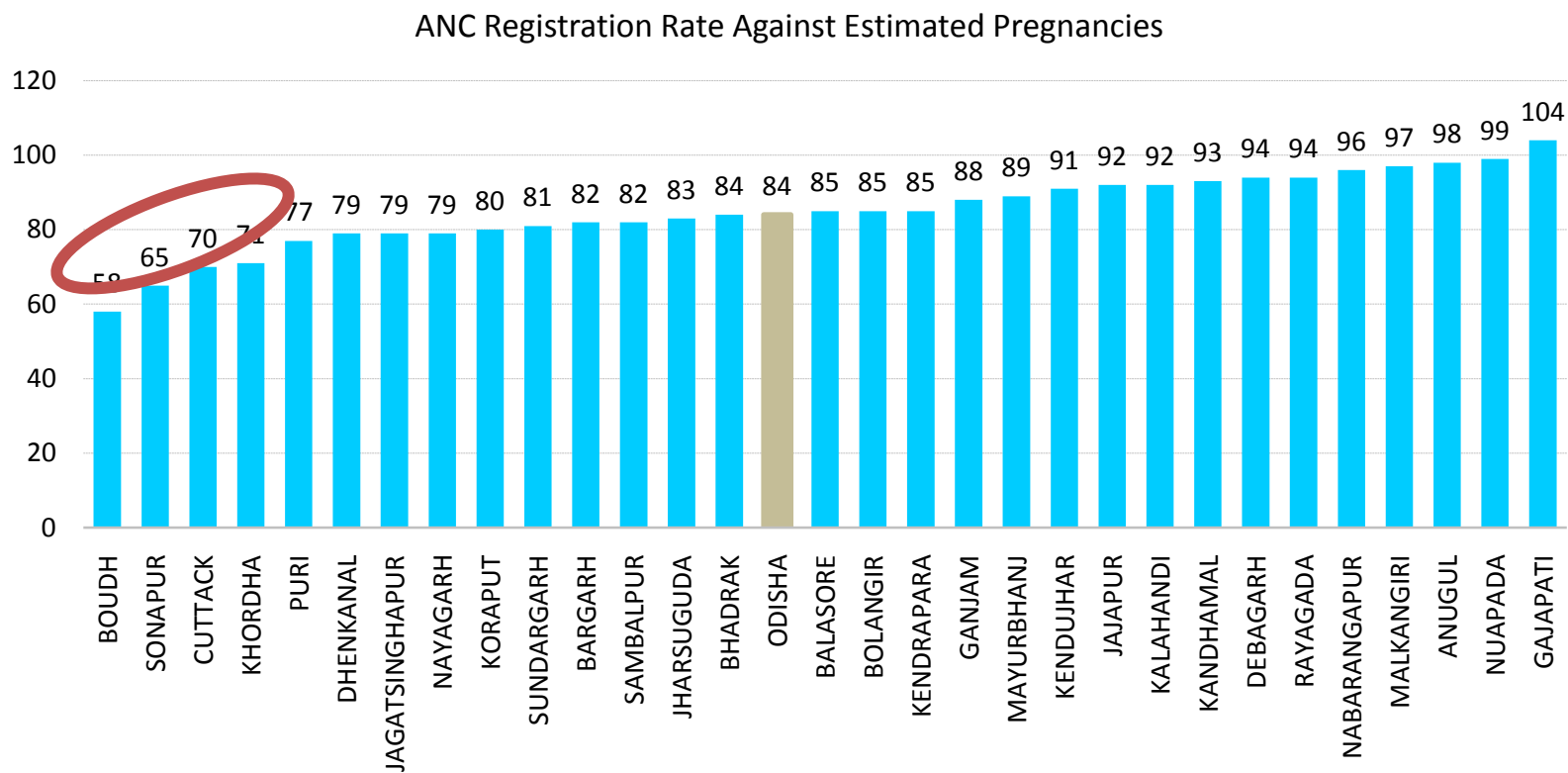
Boudh, Sonapur, Cuttack and Khordha districts show 58, 65, 70 and 71 % respectively for ANC registration against estimated pregnancies. This shows high pregnancies missed out in these districts.

DISCUSSION ON ANC COVERAGE

2. ANC 3RD VISIT COVERAGE RATE AGAINST ESTIMATED PREGNANCIES

ANC 3rd Visit Coverage Rate Against Estimated Pregnancies
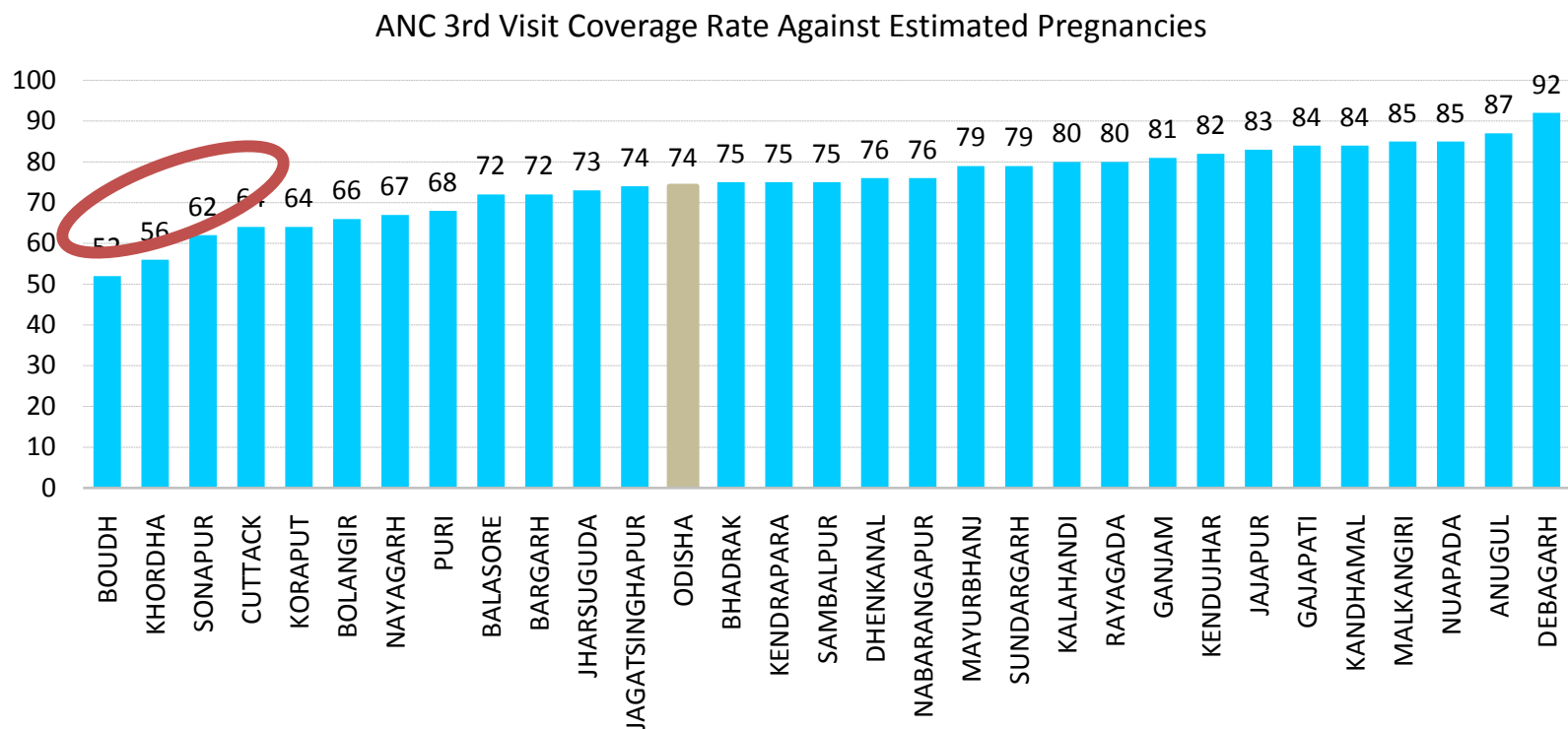
This above chart shows again the same picture as state above. Boudh, Khordha, Sonapur and Cuttack districts show 52, 56, 62 and 64 respectively for ANC third visit coverage rate from Apr to Oct 2013. These four districts are also showing poor % for ANC TT2/ Booster coverage rate and these districts needs to be focused to improve coverage of ANC services for better reach of ANC so as to improve maternal health in these districts.

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DISCUSSION ON ANC COVERAGE

3. ANC TT2/ BOOSTER COVERAGE RATE AGAINST ESTIMATED PREGNANCIES
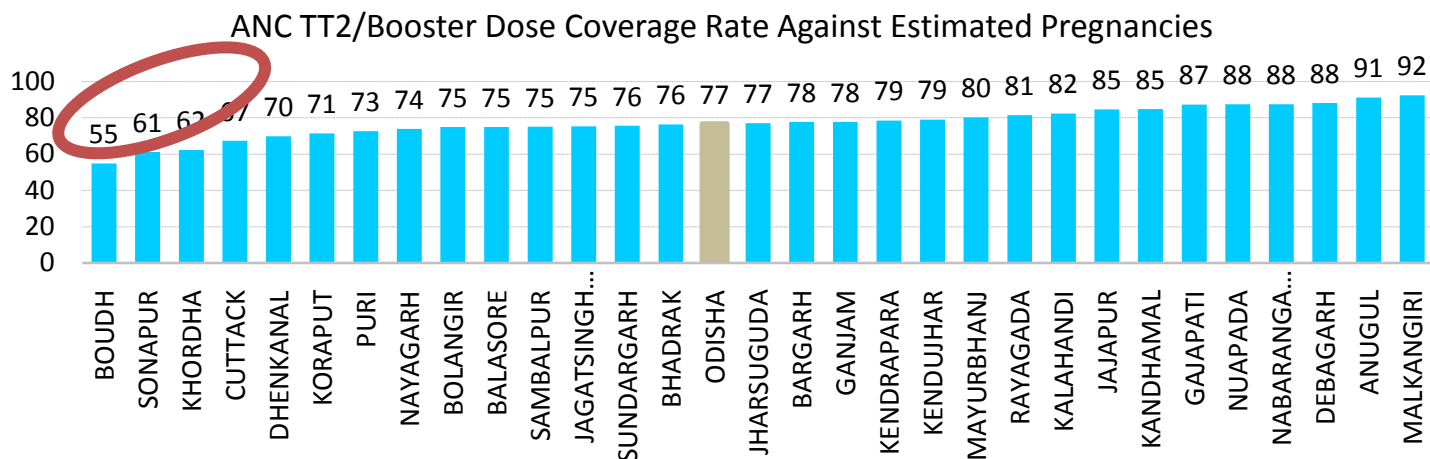
ANC TT2/Booster Dose Coverage Rate Against Estimated Pregnancies

4. ANC 100 IFA COVERAGE RATE AGAINST ESTIMATED PREGNANCIES

ANC 100 IFA Coverage Rate Against Estimated Pregnancies

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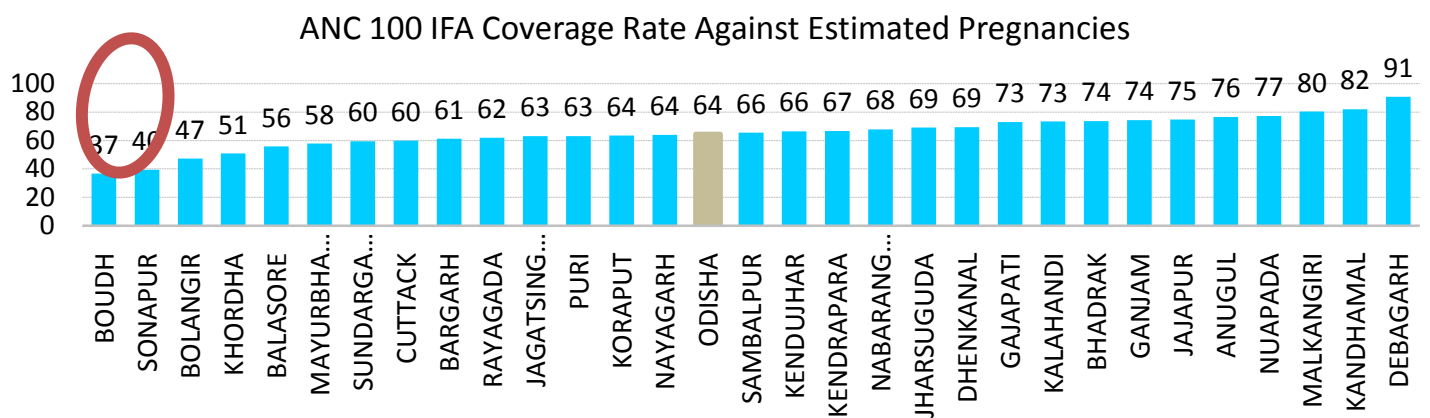
COMPLICATED PREGNANCIES ATTENDED RATE
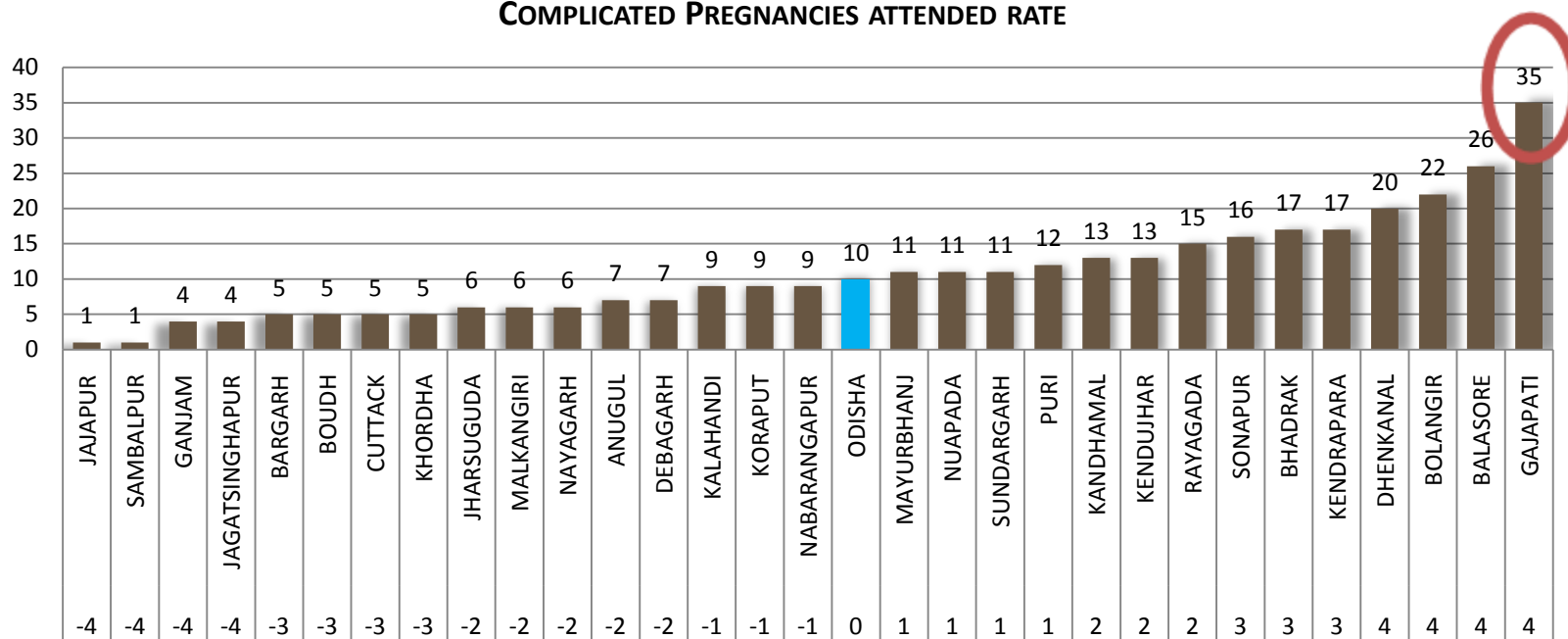
GAJAPATI	COMPLICATED PREGNANCIES ATTENDANCE RATE						
Kasinagar CHC	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Complicated Pregnancies	7	33	35	38	35	53	48
Institutional Deliveries	33	34	36	39	36	53	48
%	21.2	97.1	97.2	97.4	97.2	100	100

Most of the deliveries in Kasinagar CHC of Gajapati districts are reported as complicated pregnancies. It needs to be enquired whether they are all complicated pregnancies or reporting issues.

SAMBALPUR	COMPLICATED PREGNANCIES ATTENDANCE RATE						
VSSMC-Burla	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Complicated Pregnancies	0	0	0	0	0	0	0
Institutional Deliveries	404	489	509	453	503	496	464
%	0	0	0	0	0	0	0

VSSMC Burla of Sambalpur districts has not reported any complicated pregnancies attended from Apr to Oct 2013.

% SBA DELIVERY TO TOTAL HOME DELIVERY
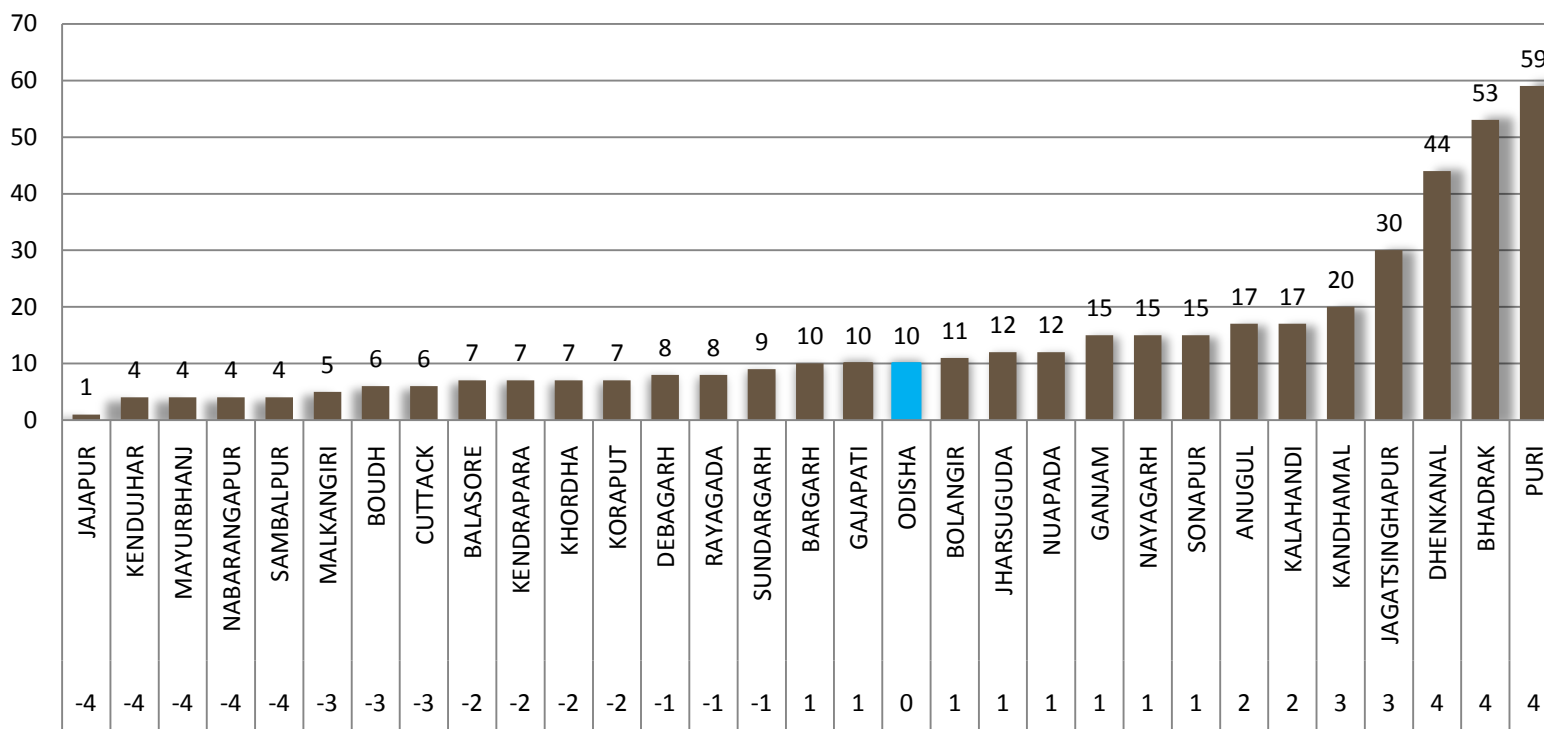
Jajapur, Kendujhar, Mayurbhanj, Nabarangapur and Sambalpur districts shows less % for SBA delivery to total home delivery.

% INSTITUTIONAL DELIVERY AGAINST TOTAL ANC REGISTRATION
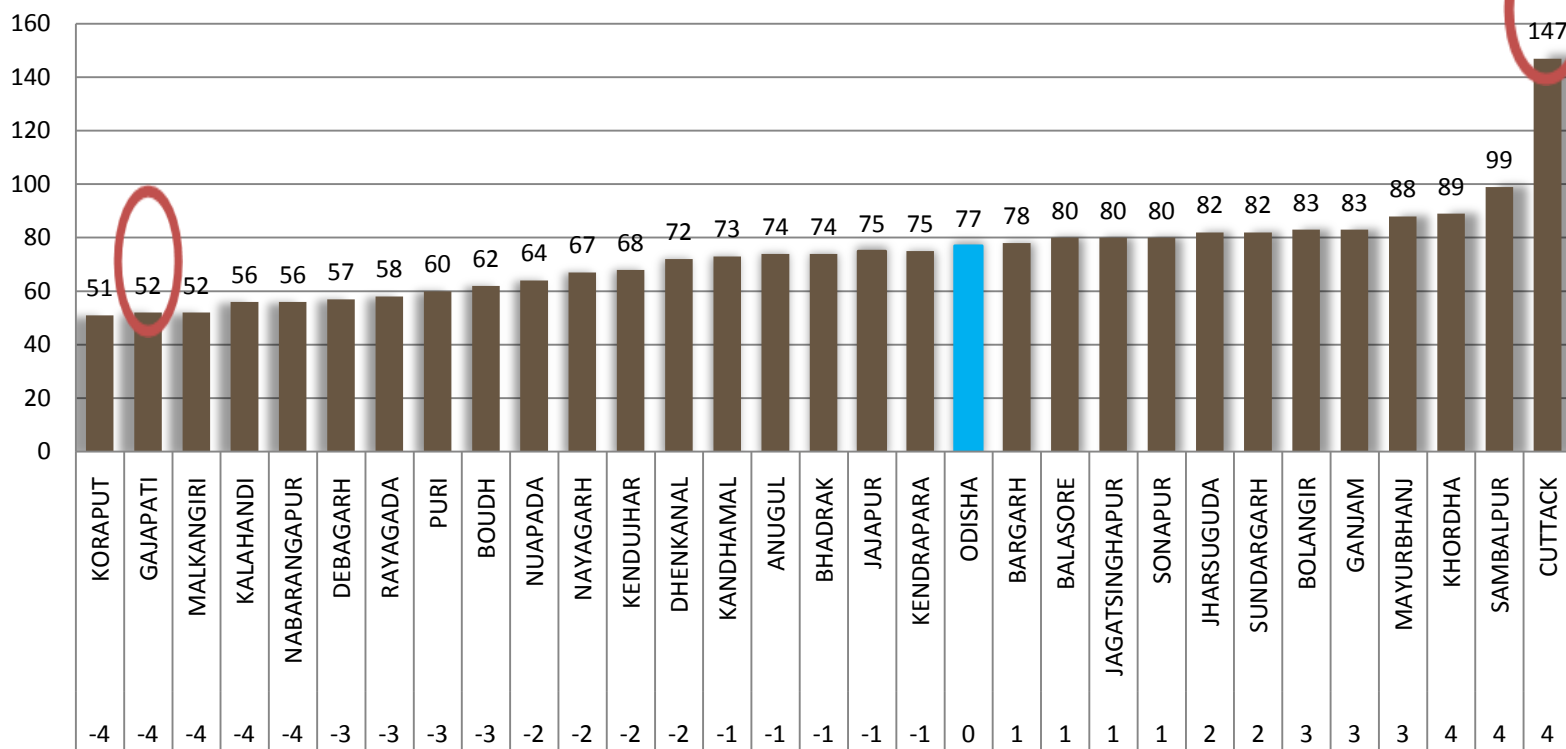
District	Value	Index
KORAPUT	51	-4
GAJAPATI	52	-4
MALKANGIRI	52	-4
KALAHANDI	56	-4
NABARANGAPUR	56	-4
DEBAGARH	57	-3
RAYAGADA	58	-3
PURI	60	-3
BOUDH	62	-3
NUAPADA	64	-2
NAYAGARH	67	-2
KENDUJHAR	68	-2
DHENKANAL	72	-2
KANDHAMAL	73	-1
ANUGUL	74	-1
BHADRAK	74	-1
JAJAPUR	75	-1
KENDRAPARA	75	-1
ODISHA	77	0
BARGARH	78	1
BALASORE	80	1
JAGATSINGHAPUR	80	1
SONAPUR	80	1
JHARSUGUDA	82	2
SUNDARGARH	82	2
BOLANGIR	83	3
GANJAM	83	3
MAYURBHANJ	88	3
KHORDHA	89	4
SAMBALPUR	99	4
CUTTACK	147	4

Gajapati district shows 52% institutional deliveries against total ANC registered and when we refer ANC registration against estimated pregnancies, it shows 104 % and it implies that there is more % of unreported deliveries in Gajapati. In Cuttack district, the % of institutional deliveries against total ANC registration is 147 which is higher because there are increased number of private deliveries are reported in May 2013 which is 2,815.

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CAESAREAN SECTION RATE AGAINST TOTAL INSTITUTIONAL DELIVERY
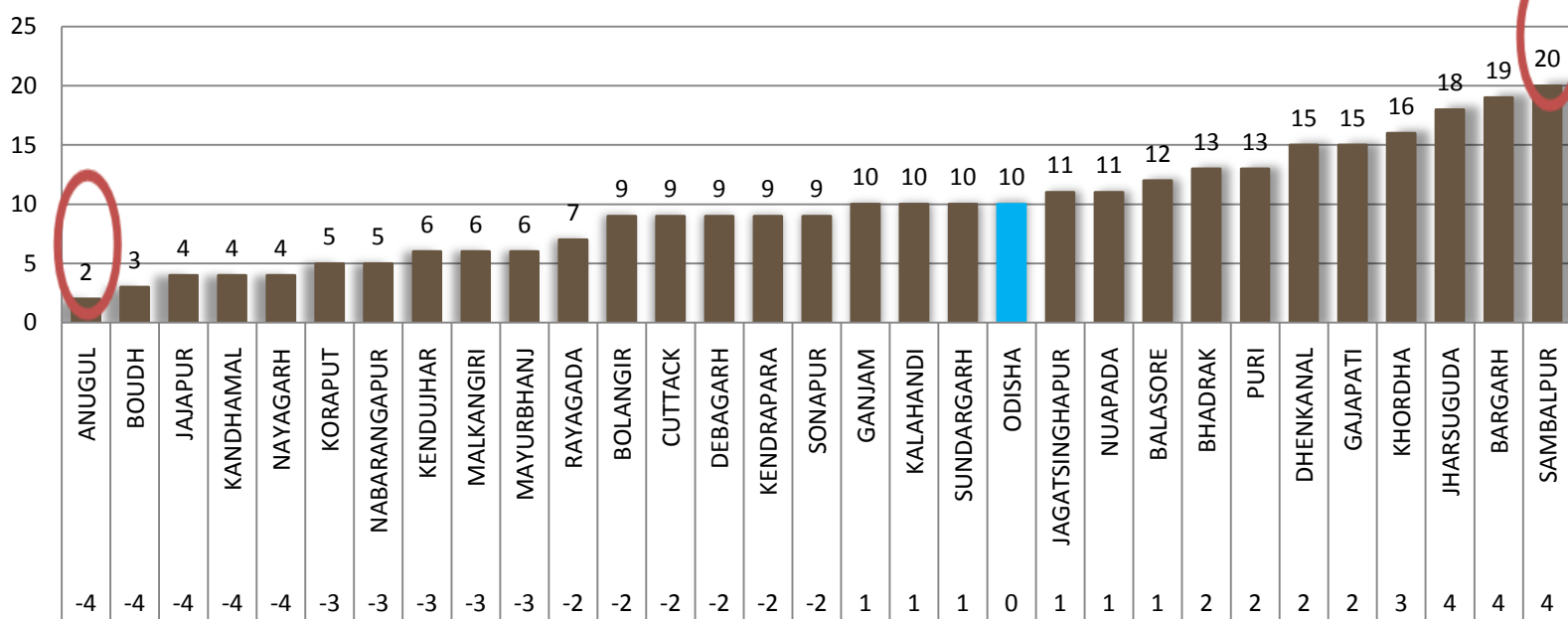
ANGUL	CAESAREAN SECTION RATE (LESS %)						
Talcher SDH	**Apr-13**	**May-13**	**Jun-13**	**Jul-13**	**Aug-13**	**Sep-13**	**Oct-13**
Caesarean sections	11	18	24	12	1	0	0
Institutional Deliveries	103	140	134	132	130	132	117
%	11	13	18	9	1	0	0
ANGUL DHH							
Caesarean sections	35	25	16	25	28	0	0
Institutional Deliveries	333	489	501	457	521	517	467
%	11	5	3	6	5	0	0

25

SAMBALPUR	CAESAREAN SECTION RATE (HIGH %)						
VSSMC-Burla	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Caesarean sections	159	196	214	197	231	191	215
Institutional Deliveries	404	489	509	453	503	496	464
%	39.4	40.1	42	43.5	45.9	38.5	46.3

% Deliveries Discharged under 48 hours Rate
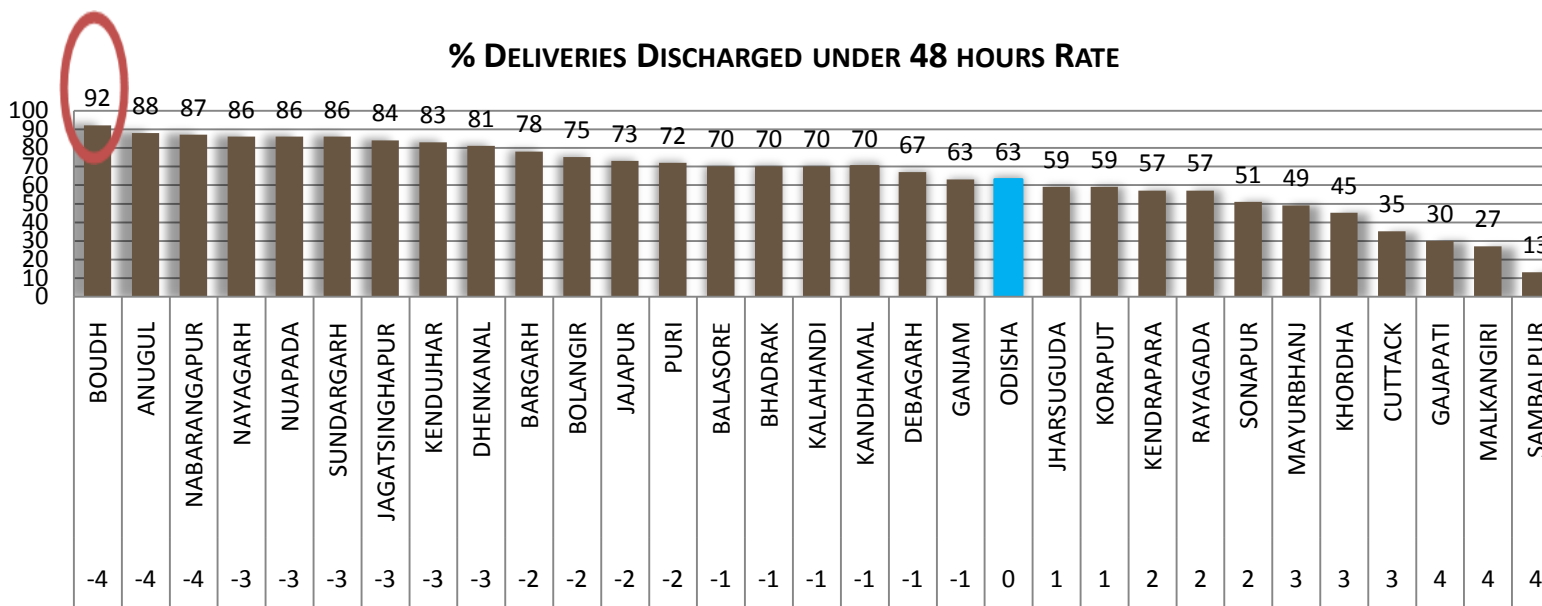
BOUDH	DELIVERIES DISCHARGED UNDER 48 HRS RATE						
BOUDH DHH	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Deliveries discharged <48hrs	48	67	64	70	101	107	78
Total Ins deliveries	48	67	73	70	101	107	78
%	100	100	87.7	100	100	100	100

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% NEWBORN BREASTFED WITHIN 1 HOUR RATE
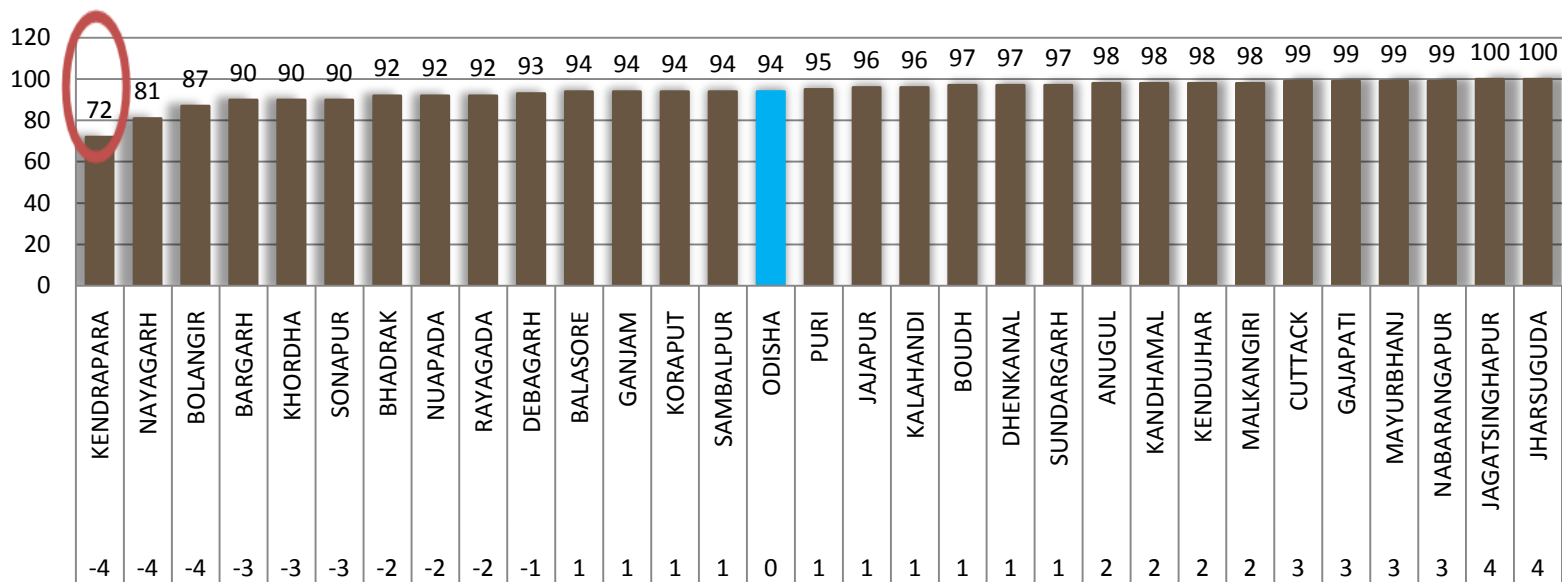
KENDRAPARA	NEWBORN BREASTFED WITHIN 1 HR RATE						
Kendrapara DHH	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Newborn breastfed within1 hr	390	48	56	509	37	40	0
Live births	475	615	592	516	589	583	594
%	82.1	7.8	9.5	98.6	6.3	6.9	0

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% HOME DELIVERY NEWBORN VISIT RATE WITHIN 24 HOURS

Blocks	JAJAPUR	GANJAM	GAJAPATI	KORAPUT	ANUGUL	MALKANGIRI	KENDRAPARA	BARGARH	NUAPADA	RAYAGADA	KANDHAMAL	DHENKANAL	ODISHA	PURI	BOLANGIR	NAYAGARH	BOUDH	KHORDHA	SONAPUR	NABARANGAPUR	SAMBALPUR	KENDUJHAR	DEBAGARH	SUNDARGARH	BHADRAK	CUTTACK	KALAHANDI	JAGATSINGHAPUR	MAYURBHANJ	BALASORE	JHARSUGUDA
Value	43	45	46	49	54	56	57	62	63	64	65	68	70	71	74	74	75	76	76	79	82	84	87	88	90	90	94	96	97	98	99
	-4	-4	-4	-3	-3	-3	-2	-2	-2	-1	-1	-1	0	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4

JAJAPUR	HOME DELIVERY NEWBORN VISIT RATE WITHIN 24 HOURS								
Blocks	**Dharmasala Block**	**Dasarthpur Block**	**Sukinda Block**	**Binjharpur Block**	**Barachana Block**	**Jajpur Block**	**Dangadi Block**	**Korei Block**	**Rasulpur Block**
Newborn visited within 24 hrs	0	3	0	1	23	5	7	0	1
Home deliveries	17	3	31	1	25	6	19	4	1
%	0	100	0	100	92	83.3	36.8	0	100

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LOW BIRTH WEIGHT RATE
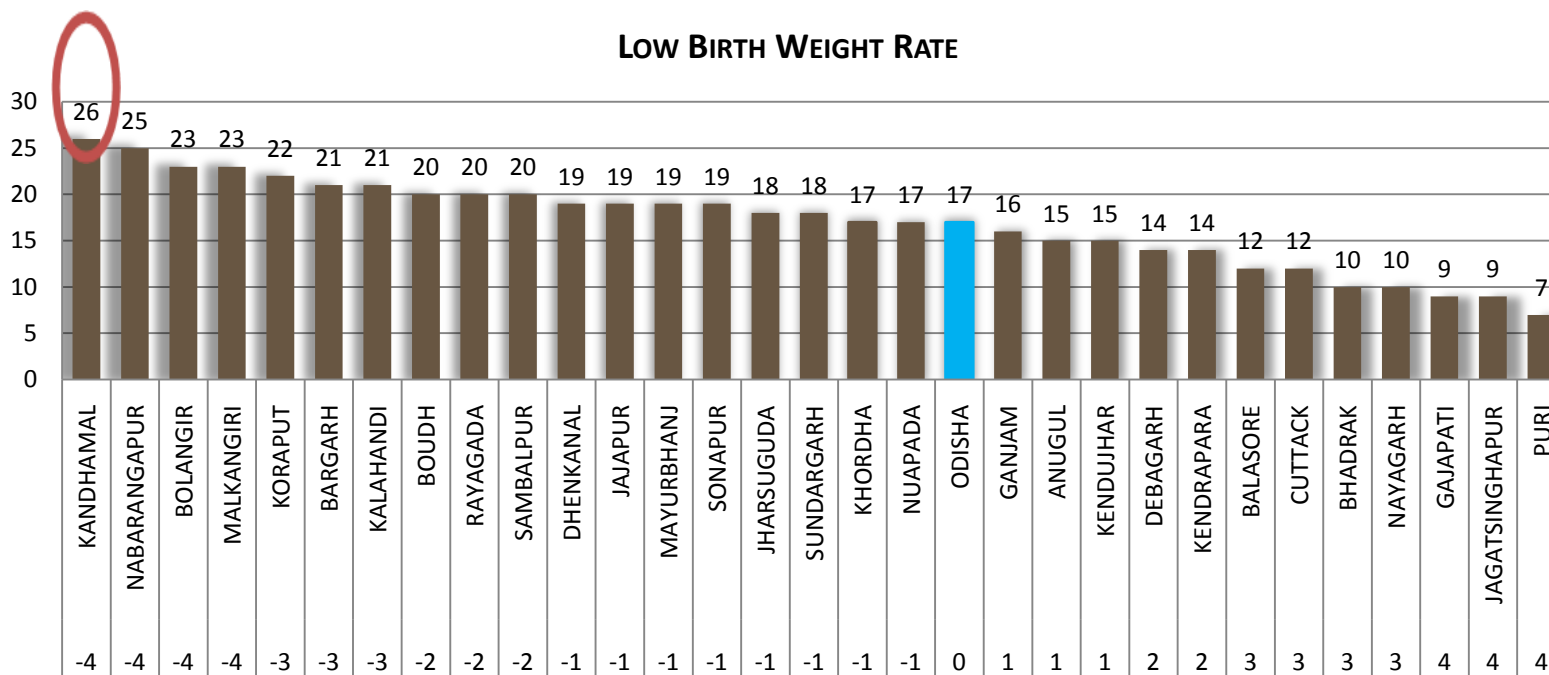
KANDHAMAL	LOW BIRTH WEIGHT RATE (DATA ENTRY ERRORS?)								
SCs of Daringibadi Block	Budaguda SC	Bamunigaon SC	Bhramar badi SC	Saramauli SC	Danekbadi SC	Sraniketa SC	Jhinjiriguda SC	Badabanga SC	Daringibadi_Mc SC
Live births Weight < 2.5 kg	16	2	8	3	7	1	3	4	1
Live births weighed	16	2	8	3	7	1	3	4	1
%	100	100	100	100	100	100	100	100	100

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FULL IMMUNISATION RATE UNDER 12 MONTHS

District	Value	Diff
CUTTACK	63	-4
KANDHAMAL	82	-4
RAYAGADA	85	-4
MALKANGIRI	88	-3
MAYURBHANJ	89	-3
NABARANGAPUR	93	-3
BOLANGIR	94	-2
GAJAPATI	94	-2
SAMBALPUR	94	-2
KORAPUT	97	-1
GANJAM	100	-1
KHORDHA	101	1
ODISHA	101	0
NUAPADA	103	1
BALASORE	105	1
KENDUJHAR	105	1
SUNDARGARH	108	1
JHARSUGUDA	110	1
KALAHANDI	110	1
BHADRAK	111	2
SONAPUR	111	2
JAJAPUR	114	2
BARGARH	116	3
DHENKANAL	117	3
KENDRAPARA	119	3
ANUGUL	120	3
JAGATSINGHAPUR	121	4
NAYAGARH	125	4
DEBAGARH	127	4
BOUDH	129	4
PURI	152	4

Full Immunization Under 1 year Against Estimated Livebirths

District	Value
BOUDH	63
SONAPUR	67
KORAPUT	70
KHORDHA	71
CUTTACK	72
DHENKANAL	76
NAYAGARH	76
NABARANG...	77
RAYAGADA	77
BOLANGIR	79
KANDHAMAL	79
BHADRAK	80
MAYURBHANJ	80
ODISHA	80
BALASORE	81
PURI	81
GANJAM	82
KENDUJHAR	83
BARGARH	84
KENDRAPARA	84
MALKANGIRI	84
JAGATSINGH...	85
JHARSUGUDA	85
KALAHANDI	85
SAMBALPUR	85
SUNDARGARH	86
DEBAGARH	88
GAJAPATI	88
JAJAPUR	89
NUAPADA	90
ANUGUL	100
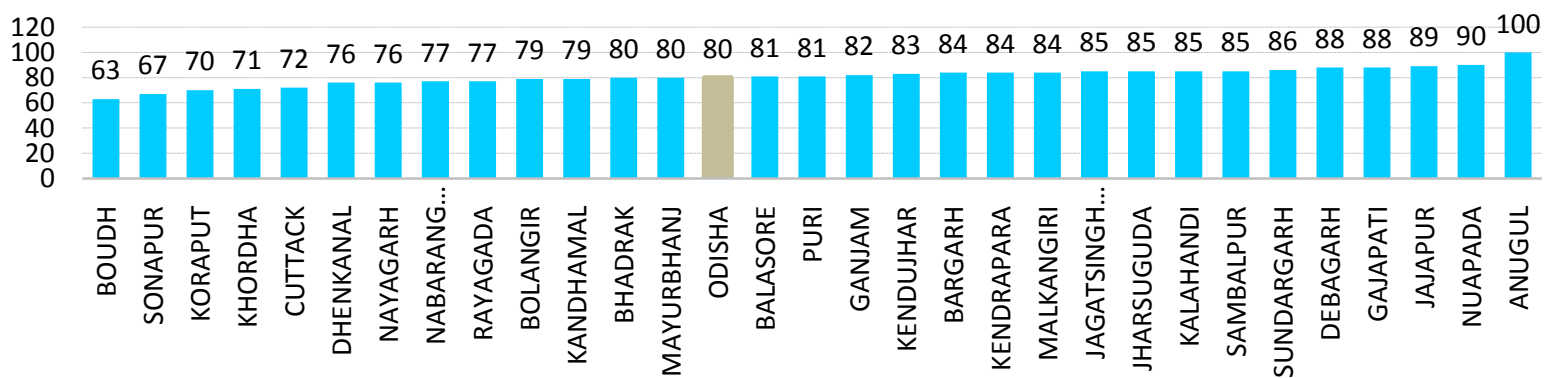
% PP STERILISATION TO TOTAL FEMALE STERILISATION
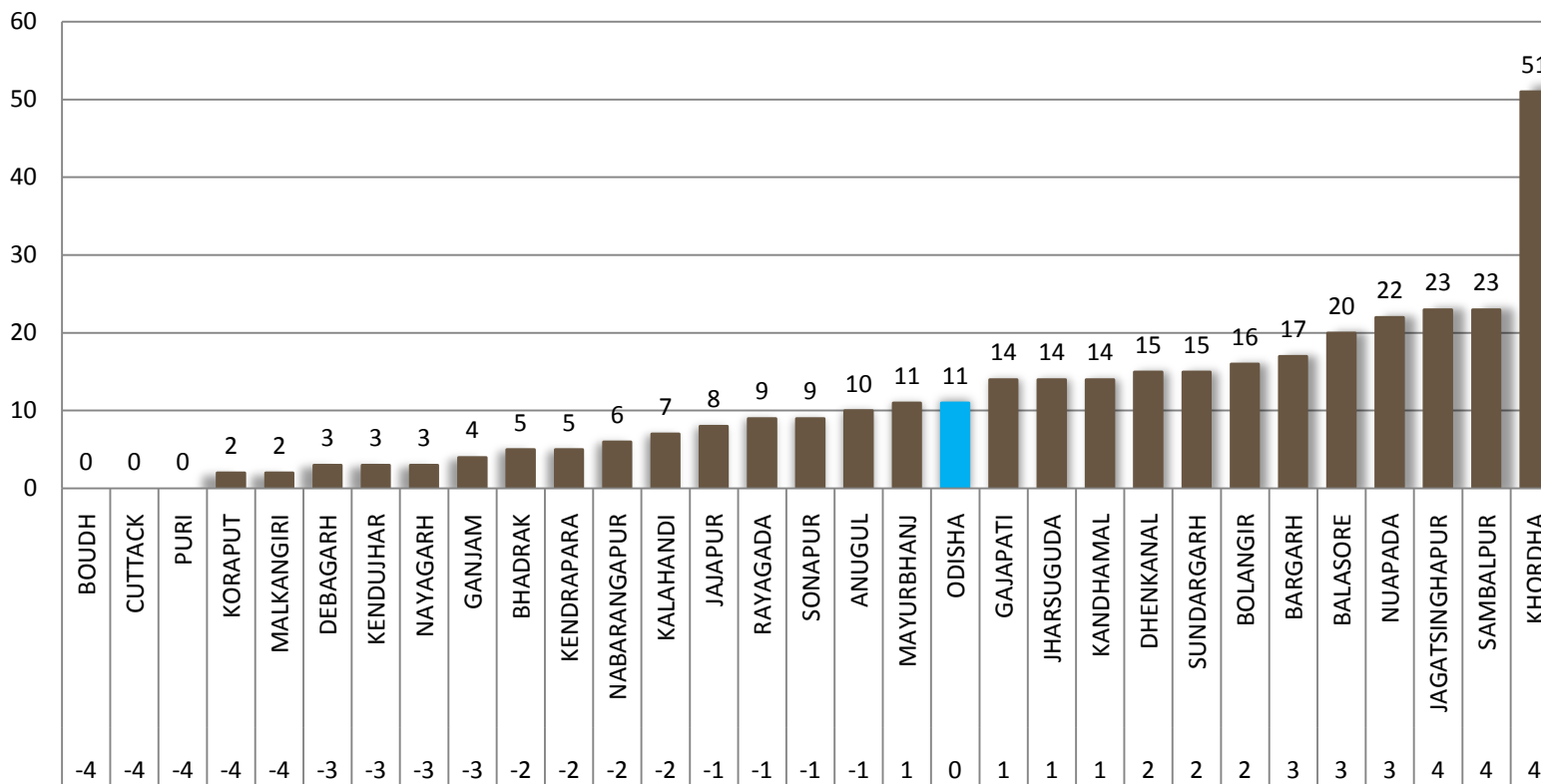
District	%	Value
BOUDH	0	-4
CUTTACK	0	-4
PURI	0	-4
KORAPUT	2	-4
MALKANGIRI	2	-4
DEBAGARH	3	-3
KENDUJHAR	3	-3
NAYAGARH	3	-3
GANJAM	4	-3
BHADRAK	5	-2
KENDRAPARA	5	-2
NABARANGAPUR	6	-2
KALAHANDI	7	-2
JAJAPUR	8	-1
RAYAGADA	9	-1
SONAPUR	9	-1
ANUGUL	10	-1
MAYURBHANJ	11	1
ODISHA	11	0
GAJAPATI	14	1
JHARSUGUDA	14	1
KANDHAMAL	14	1
DHENKANAL	15	2
SUNDARGARH	15	2
BOLANGIR	16	2
BARGARH	17	3
BALASORE	20	3
NUAPADA	22	3
JAGATSINGHAPUR	23	4
SAMBALPUR	23	4
KHORDHA	51	4

Boudh, Cuttack and Puri districts shows very less post-partum sterilization against total female sterilization.

% MALE STERILISATION TO TOTAL STERILISATION

	ANUGUL	BALASORE	BARGARH	BHADRAK	BOLANGIR	CUTTACK	DEBAGARH	DHENKANAL	JAGATSINGHAPUR	JAJAPUR	JHARSUGUDA	KENDRAPARA	KHORDHA	NAYAGARH	NUAPADA	PURI	SAMBALPUR	SONAPUR	GAJAPATI	GANJAM	KANDHAMAL	MALKANGIRI	NABARANGAPUR	ODISHA	KALAHANDI	KENDUJHAR	MAYURBHANJ	SUNDARGARH	BOUDH	RAYAGADA	KORAPUT
	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-1	-1	1	1	1	0	1	1	1	2	3	3	4

18 districts showing less than 1% for Male sterilization against total sterilization

% IUCD AGANIST TOTAL FP + IUCD

District	%
MALKANGIRI	41
GAJAPATI	44
SONAPUR	45
RAYAGADA	49
BARGARH	50
GANJAM	51
KORAPUT	52
BHADRAK	55
BOLANGIR	56
NUAPADA	56
KALAHANDI	59
NABARANGAPUR	60
SAMBALPUR	62
KANDHAMAL	64
KHORDHA	64
MAYURBHANJ	64
ODISHA	64
JAJAPUR	66
KENDUJHAR	66
JHARSUGUDA	67
CUTTACK	69
KENDRAPARA	69
BALASORE	70
ANUGUL	71
JAGATSINGHAPUR	71
DEBAGARH	72
DHENKANAL	73
SUNDARGARH	74
NAYAGARH	78
PURI	81
BOUDH	87

Bottom row values: -4, -4, -4, -4, -3, -3, -3, -2, -2, -2, -1, -1, -1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 2, 2, 2, 3, 3, 4, 4, 4, 4

Malkangiri, Gajapati, Sonapur and Rayagada districts show only 41, 44, 45 and 49% respectively for IUCD against total FP methods including permanent plus IUCD.

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SCORING OF DISTRICTS FOR SERVICE DELIVERY (16 KEY INDICATORS)

Each district has scored for each life stage based on 16 key service delivery indicators. It will be appropriate to look into the scoring of each district for each life stage so as to do interventions which are information based.

The following districts showing poor score for pregnancy care, Child birth, Post Natal & Newborn care and Reproductive age group

DISTRICTS OF ODISHA WITH POOR SCORING FOR 16 KEY INDICATORS				
PREGNANCY CARE (5 INDICATORS)	CHILD BIRTH (3 INDICATORS)	PNC & NEWBORN CARE (5 INDICATORS)	REPRODUCTIVE AGE GROUP (3 INDICATORS)	OVERALL (16 INDICATORS)
BOLANGIR	NABARANGAPUR	GAJAPATI	SONAPUR	RAYAGADA
KHORDHA	BOUDH	KENDRAPARA	BHADRAK	GAJAPATI
NABARANGAPUR	MALKANGIRI	RAYAGADA	CUTTACK	KORAPUT
RAYAGADA	JAJAPUR	CUTTACK	GANJAM	MALKANGIRI
KORAPUT	KENDUJHAR	GANJAM	MALKANGIRI	NABARANGAPUR
GAJAPATI	KORAPUT	MALKANGIRI	KENDRAPARA	BOLANGIR
BOUDH	DEBAGARH	KHORDHA	BARGARH	GANJAM
GANJAM	RAYAGADA	KORAPUT	BOLANGIR	JAJAPUR
NUAPADA	KENDRAPARA	SAMBALPUR	DEBAGARH	KENDRAPARA
BALASORE	NAYAGARH	SONAPUR	GAJAPATI	SONAPUR

The Districts listed for Pregnancy care, Child birth, PNC & Newborn care and Reproductive age group need intervention for their respective focus life stage. When the scores for each life stage has aggregated for each indicator and based on overall scoring, the districts shown poor scoring in all the life stages is listed under overall (column 5) of Table above. The table shows the shows poor scoring districts from above downwards.

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RANKING OF DISTRICTS FOR SERVICE DELIVERY (16 KEY INDICATORS)

DISTRICTS	PREGNANCY CARE	CHILD BIRTH	PNC & NEWBORN CARE	REPRODUCTIVE AGE GROUP	TOTAL SCORE	Z SCORE	RANKING
RANKING OF DISTRICTS OF ODISHA BASED ON 16 KEY INDICATORS 2013							
RAYAGADA	-9	-6	-7	-2	-24	-1.85	RANK 30
GAJAPATI	-6	-1	-11	-4	-22	-1.69	RANK 29
KORAPUT	-8	-9	-1	-3	-21	-1.61	RANK 28
MALKANGIRI	5	-10	-4	-7	-16	-1.20	RANK 27
NABARANGAPUR	-9	-11	10	-2	-12	-0.88	RANK 26
BOLANGIR	-9	2	1	-4	-10	-0.72	RANK 25
GANJAM	-4	5	-4	-7	-10	-0.72	RANK 24
JAJAPUR	1	-9	2	-4	-10	-0.72	RANK 23
KENDRAPARA	8	-5	-7	-5	-9	-0.63	RANK 22
SONAPUR	1	0	-1	-9	-9	-0.63	RANK 21
KHORDHA	-9	5	-3	1	-6	-0.39	RANK 20
NUAPADA	-4	0	1	-3	-6	-0.39	RANK 19
NAYAGARH	2	-5	1	-3	-5	-0.31	RANK 18
CUTTACK	8	-1	-4	-7	-4	-0.23	RANK 17
KENDUJHAR	-1	-9	7	-1	-4	-0.23	RANK 16
DEBAGARH	4	-6	5	-4	-1	0.01	RANK 15
BOUDH	-5	-10	12	3	0	0.09	RANK 14
ANUGUL	2	-3	5	-3	1	0.18	RANK 13
MAYURBHANJ	1	-4	2	3	2	0.26	RANK 12
BALASORE	-2	0	4	1	3	0.34	RANK 11
BARGARH	0	6	3	-4	5	0.50	RANK 10
SAMBALPUR	5	4	-1	-1	7	0.66	RANK 9
KALAHANDI	1	-1	10	-2	8	0.74	RANK 8
KANDHAMAL	7	-2	2	3	10	0.90	RANK 7
BHADRAK	13	5	1	-8	11	0.99	RANK 6
JHARSUGUDA	-1	7	9	-2	13	1.15	RANK 5
PURI	10	3	4	-4	13	1.15	RANK 4
JAGATSINGHAPUR	0	5	11	2	18	1.55	RANK 3
DHENKANAL	7	4	7	1	19	1.63	RANK 2
SUNDARGARH	5	2	9	8	24	2.04	RANK 1

🟥	POOR
🟨	AVERAGE
🟩	GOOD

GIS VISUALISATION OF RANKING OF DISTRICTS OF ODISHA

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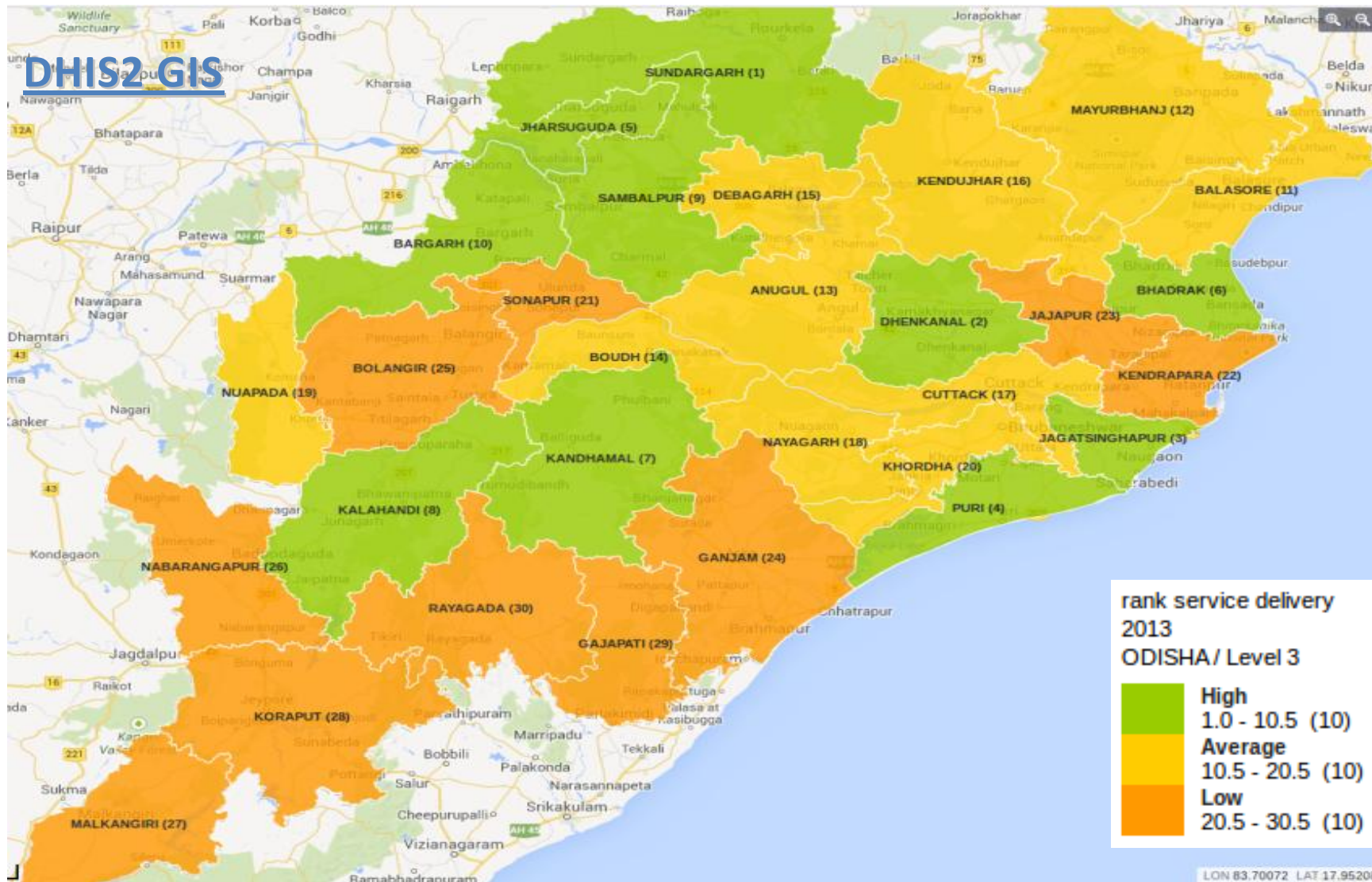
HEALTH FACILITIES PERFOMANCE

SUB-CENTRES (SC)

		Number of SCs not reported for ANC, Delivery, Immunization, FP, Lab, OPD & VHND Services							
DISTRICTS	**TOTAL SCS**	**ANC**		**DELIVERY**	**IMM**	**FP**	**LAB**	**OPD**	**VHND**
		ANC REG	**ANC HTN**	**DELV**	**DPT3**	**IUD**	**HB**	**OPD**	**VHND**
ANUGUL	175	0	154	161	0	33	4	0	1
BALASORE	275	0	201	266	0	1	92	1	1
BARGARH	205	1	190	170	1	43	18	1	2
BHADRAK	177	0	171	171	0	14	10	0	3
BOLANGIR	226	1	169	219	1	63	81	0	1
BOUDH	67	0	49	67	0	17	26	0	1
CUTTACK	333	10	269	332	10	24	155	10	10
DEBAGARH	42	0	37	37	0	0	5	0	0
DHENKANAL	167	0	138	161	0	4	5	0	0
GAJAPATI	136	1	112	135	1	35	23	1	1
GANJAM	460	0	396	457	0	96	51	2	22
JAGATSINGHAPUR	189	5	174	189	2	11	28	2	9
JAJAPUR	260	0	237	260	0	37	142	3	3
JHARSUGUDA	66	0	56	59	0	17	0	0	0
KALAHANDI	242	1	181	235	1	46	53	2	3
KANDHAMAL	172	2	128	165	2	66	62	2	2
KENDRAPARA	227	0	207	224	0	4	79	0	0
KENDUJHAR	351	0	270	322	0	43	3	0	0
KHORDHA	202	0	171	200	0	5	41	0	1
KORAPUT	307	2	220	307	0	93	123	9	6
MALKANGIRI	158	0	134	158	0	39	11	0	0
MAYURBHANJ	589	0	376	588	0	286	7	6	2
NABARANGAPUR	289	1	243	280	1	53	76	3	3
NAYAGARH	166	0	153	165	0	4	7	0	1
NUAPADA	96	0	64	90	0	16	20	0	3
PURI	244	3	192	244	3	4	106	3	11
RAYAGADA	236	0	172	232	0	128	15	1	1
SAMBALPUR	172	2	133	170	2	26	21	2	2
SONAPUR	89	0	75	87	0	7	10	0	2
SUNDARGARH	390	0	308	335	0	26	77	0	1
ODISHA	**6708**	**29**	**5380**	**6486**	**24**	**1241**	**1351**	**48**	**92**
% OF SCS NOT REPORTED	**%**	**0.4**	**80**	**97**	**0.4**	**19**	**20**	**0.7**	**1.4**

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PRIMARY HEALTH CENTRES (PHC)

		ANC		DELIVERY		CHILD IMMUNIZATION		FP	
DISTRICTS	**TOTAL PHC (N)**	**ANC REG**	**ANC HTN**	**DELV**	**COMP PREG**	**LIVE BIRTHS WEIGH**	**DPT 3**	**IUD**	**STER**
ANUGUL	31	31	31	16	0	16	31	25	31
BALASORE	68	68	68	52	48	52	68	67	67
BARGARH	46	46	46	32	46	32	45	41	46
BHADRAK	50	50	50	35	50	35	50	41	50
BOLANGIR	42	42	41	30	42	30	42	41	42
BOUDH	12	12	12	9	12	9	12	11	12
CUTTACK	58	56	58	51	58	51	55	55	54
DEBAGARH	7	7	7	3	7	3	7	6	7
DHENKANAL	32	30	32	22	32	22	31	21	32
GAJAPATI	20	20	20	13	20	13	20	19	20
GANJAM	89	84	88	67	89	67	86	84	89
JAGATSINGHAPUR	37	37	37	36	37	36	36	36	37
JAJAPUR	56	51	56	44	56	44	48	46	52
JHARSUGUDA	15	13	15	5	15	5	13	10	15
KALAHANDI	43	42	43	28	43	28	43	43	43
KANDHAMAL	37	37	36	24	37	24	37	33	37
KENDRAPARA	45	45	45	30	45	30	45	41	44
KENDUJHAR	60	58	60	45	60	45	59	56	58
KHORDHA	46	45	46	39	46	39	45	45	44
KORAPUT	49	46	48	40	49	40	47	42	49
MALKANGIRI	26	24	26	13	26	13	26	26	26
MAYURBHANJ	82	82	82	67	82	67	82	60	78
NABARANGAPUR	39	39	38	20	39	20	39	37	28
NAYAGARH	37	37	37	28	37	28	37	34	36
NUAPADA	17	17	16	8	17	8	17	16	17
PURI	46	45	45	43	46	43	45	45	46
RAYAGADA	36	35	35	30	36	31	36	32	36
SAMBALPUR	32	31	32	20	32	20	31	30	28
SONAPUR	18	18	18	16	18	17	18	17	18
SUNDARGARH	58	57	57	32	58	32	57	53	56
ODISHA	**1234**	**1205**	**1225**	**898**	**1183**	**900**	**1208**	**1113**	**1198**
% OF PHCS NOT REPORTED	**%**	**98**	**99**	**73**	**96**	**73**	**98**	**90**	**97**

Number of PHCs not reported for ANC, Delivery, Child Immunization, FP Services

DISTRICTS	TOTAL PHC (N)	OPD	IP	LAB				
		OPD	IP	HB	BLOOD SMEARS	WIDAL	VDRL	HIV
ANUGUL	31	0	17	28	11	31	31	31
BALASORE	68	1	52	67	61	68	68	68
BARGARH	46	0	32	46	44	46	46	46
BHADRAK	50	0	36	50	47	50	50	49
BOLANGIR	42	0	29	40	25	42	42	42
BOUDH	12	3	9	12	12	12	12	12
CUTTACK	58	4	50	56	55	58	58	58
DEBAGARH	7	0	3	7	5	7	7	7
DHENKANAL	32	0	21	30	12	30	29	32
GAJAPATI	20	0	14	19	10	20	20	20
GANJAM	89	3	68	80	57	87	88	89
JAGATSINGHAPUR	37	2	36	37	31	37	37	37
JAJAPUR	56	1	45	55	41	56	56	56
JHARSUGUDA	15	1	5	14	6	15	15	15
KALAHANDI	43	0	25	38	18	42	42	43
KANDHAMAL	37	4	21	29	16	37	37	37
KENDRAPARA	45	1	25	41	44	44	44	45
KENDUJHAR	60	2	36	57	34	59	59	60
KHORDHA	46	3	39	46	43	46	46	46
KORAPUT	49	3	38	49	33	49	49	48
MALKANGIRI	26	2	12	24	13	25	26	26
MAYURBHANJ	82	2	68	81	50	82	82	81
NABARANGAPUR	39	1	19	39	14	39	39	39
NAYAGARH	37	0	29	37	31	37	37	37
NUAPADA	17	1	8	16	9	17	17	17
PURI	46	4	43	46	46	46	46	46
RAYAGADA	36	6	29	35	8	36	36	36
SAMBALPUR	32	0	21	32	16	32	31	32
SONAPUR	18	0	17	17	14	18	18	18
SUNDARGARH	58	4	27	53	27	57	56	58
ODISHA	**1234**	**48**	**874**	**1181**	**833**	**1225**	**1224**	**1231**
% OF PHCS NOT REPORTED	**%**	**4**	**71**	**96**	**68**	**99**	**99**	**100**

Table title: Number of PHCs not reported for OPD, IP, Lab services

COMMUNITY HEALTH CENTRES (CHC)

DISTRICTS	TOTAL CHC	ANC		DELIVERY				CHILD IMMUNIZATION		FP	
		ANC REG	ANC HTN	DELV	COMP PREG	C-SEC	SEV ANEM TRD	LB WEIGH	DPT 3	IUD	STER
ANUGUL	9	6	9	0	4	9	9	0	5	0	1
BALASORE	17	15	13	0	6	13	16	0	11	6	4
BARGARH	14	13	13	1	9	12	12	1	12	7	1
BHADRAK	7	6	6	0	1	6	6	0	4	1	0
BOLANGIR	15	14	14	0	9	13	14	0	14	8	1
BOUDH	5	5	5	0	4	4	5	0	5	3	2
CUTTACK	21	15	21	3	11	19	21	2	12	11	5
DEBAGARH	4	4	4	0	2	4	4	0	4	2	0
DHENKANAL	10	9	8	0	5	9	8	0	7	2	2
GAJAPATI	8	7	8	0	0	8	8	0	7	4	0
GANJAM	31	23	31	0	24	30	30	0	23	16	2
JAGATSINGHAPUR	9	8	8	0	6	8	9	0	7	5	0
JAJAPUR	12	10	12	1	8	9	12	1	6	3	1
JHARSUGUDA	6	5	6	1	4	6	6	1	4	2	1
KALAHANDI	16	15	16	1	15	15	16	1	15	9	2
KANDHAMAL	14	12	13	1	7	14	14	1	12	5	2
KENDRAPARA	9	9	8	0	3	7	8	0	5	5	0
KENDUJHAR	17	13	15	1	8	17	14	1	11	5	3
KHORDHA	14	11	14	1	11	12	14	1	11	9	2
KORAPUT	16	12	12	0	10	16	13	0	15	5	2
MALKANGIRI	8	7	7	0	7	8	7	0	8	7	1
MAYURBHANJ	28	27	24	1	13	27	25	1	27	1	1
NABARANGAPUR	11	10	10	0	4	10	10	0	9	2	0
NAYAGARH	12	11	12	1	6	10	12	1	10	4	2
NUAPADA	6	6	6	0	4	5	6	0	6	5	2
PURI	17	12	17	2	16	17	17	2	10	7	4
RAYAGADA	11	9	10	0	4	11	6	0	11	4	0
SAMBALPUR	11	10	11	0	10	11	11	0	10	2	1
SONAPUR	5	5	5	0	2	3	4	0	5	1	0
SUNDARGARH	20	18	15	1	14	19	17	1	16	9	1
ODISHA	**383**	**327**	**353**	**15**	**227**	**352**	**354**	**14**	**302**	**150**	**43**
% OF CHCS NOT REPORTED	**%**	**26**	**29**	**1**	**18**	**29**	**29**	**1**	**24**	**12**	**3**

Table title: Number of CHCs not reported for ANC, Delivery, Child Immunization, FP Services

		SURGERIES		IP		LAB				
DISTRICTS	**TOTAL CHC**	**MAJOR SURGERY**	**CATARACT**	**IP**	**HB**	**BLOOD SMEARS**	**WIDAL**	**VDRL**	**HIV**	

The table title spans: **Number of CHCs not reported for Surgery, IP, Lab services**

DISTRICTS	**TOTAL CHC**	**MAJOR SURGERY**	**CATARACT**	**IP**	**HB**	**BLOOD SMEARS**	**WIDAL**	**VDRL**	**HIV**
ANUGUL	9	8	5	0	2	0	4	5	1
BALASORE	17	15	14	0	12	3	16	15	4
BARGARH	14	12	14	0	5	1	12	12	11
BHADRAK	7	1	6	0	1	1	5	3	1
BOLANGIR	15	13	14	0	10	2	12	13	7
BOUDH	5	3	5	0	5	2	5	5	4
CUTTACK	21	3	13	0	18	7	20	20	18
DEBAGARH	4	2	3	0	1	0	4	4	4
DHENKANAL	10	6	9	0	6	2	9	7	7
GAJAPATI	8	0	8	0	6	1	7	7	7
GANJAM	31	6	29	0	18	7	25	22	8
JAGATSINGHAPUR	9	8	9	0	1	0	7	7	4
JAJAPUR	12	10	10	0	7	1	9	8	6
JHARSUGUDA	6	6	6	0	2	2	2	3	2
KALAHANDI	16	14	14	0	6	0	8	7	8
KANDHAMAL	14	4	13	0	10	1	12	12	11
KENDRAPARA	9	7	9	0	2	0	9	6	1
KENDUJHAR	17	15	15	0	10	1	15	15	14
KHORDHA	14	14	13	1	11	8	13	14	7
KORAPUT	16	7	14	0	10	1	13	11	7
MALKANGIRI	8	8	8	0	6	2	7	7	7
MAYURBHANJ	28	28	25	1	13	4	26	23	17
NABARANGAPUR	11	1	11	0	9	0	7	8	6
NAYAGARH	12	8	10	0	6	5	11	11	9
NUAPADA	6	4	5	0	2	0	2	2	4
PURI	17	17	17	1	13	4	15	13	12
RAYAGADA	11	11	10	0	4	0	10	11	9
SAMBALPUR	11	5	11	0	8	1	9	11	7
SONAPUR	5	0	5	0	4	0	5	5	3
SUNDARGARH	20	19	15	0	7	2	16	14	14
ODISHA	**383**	**255**	**340**	**3**	**215**	**58**	**315**	**301**	**220**
% OF CHCS NOT REPORTED	**%**	**21**	**28**	**0.2**	**17**	**5**	**26**	**24**	**18**

SCORING OF DISTRICTS FOR HEALTH FACILITIES PERFORMANCE

Each district has scored for each health facility type based on 41 key indicators. It will be appropriate to look into the scoring of each district for each health facility type so as to do interventions which are information based.

The following districts showing poor score for SCs, PHCs and CHCs

DISTRICTS OF ODISHA WITH POOR SCORING FOR HEALTH FACILITIES PERFORMANCE			
SC (8 INDICATORS)	PHC (15 INDICATORS)	CHC (18 INDICATORS)	OVERALL (41 INDICATORS)
CUTTACK	PURI	KHORDHA	PURI
JAGATSINGHAPUR	JAGATSINGHAPUR	PURI	KHORDHA
PURI	KHORDHA	BOUDH	BOUDH
GAJAPATI	BOUDH	MALKANGIRI	CUTTACK
KANDHAMAL	SONAPUR	CUTTACK	JAGATSINGHAPUR
KORAPUT	BALASORE	NAYAGARH	NAYAGARH
JAJAPUR	CUTTACK	KANDHAMAL	SONAPUR
SAMBALPUR	NAYAGARH	MAYURBHANJ	BARGARH
NABARANGAPUR	BARGARH	BARGARH	MAYURBHANJ
KALAHANDI	MAYURBHANJ	KALAHANDI	GAJAPATI

The Districts listed for Performance of health facilities for SCs, PHCs and CHCs need intervention for their facility type. When the scores for each facility type has aggregated for each indicator and based on overall scoring, the districts shown poor scoring in all the health facility type is listed under overall (column 5) of Table above. The table shows the shows poor scoring districts from above downwards.
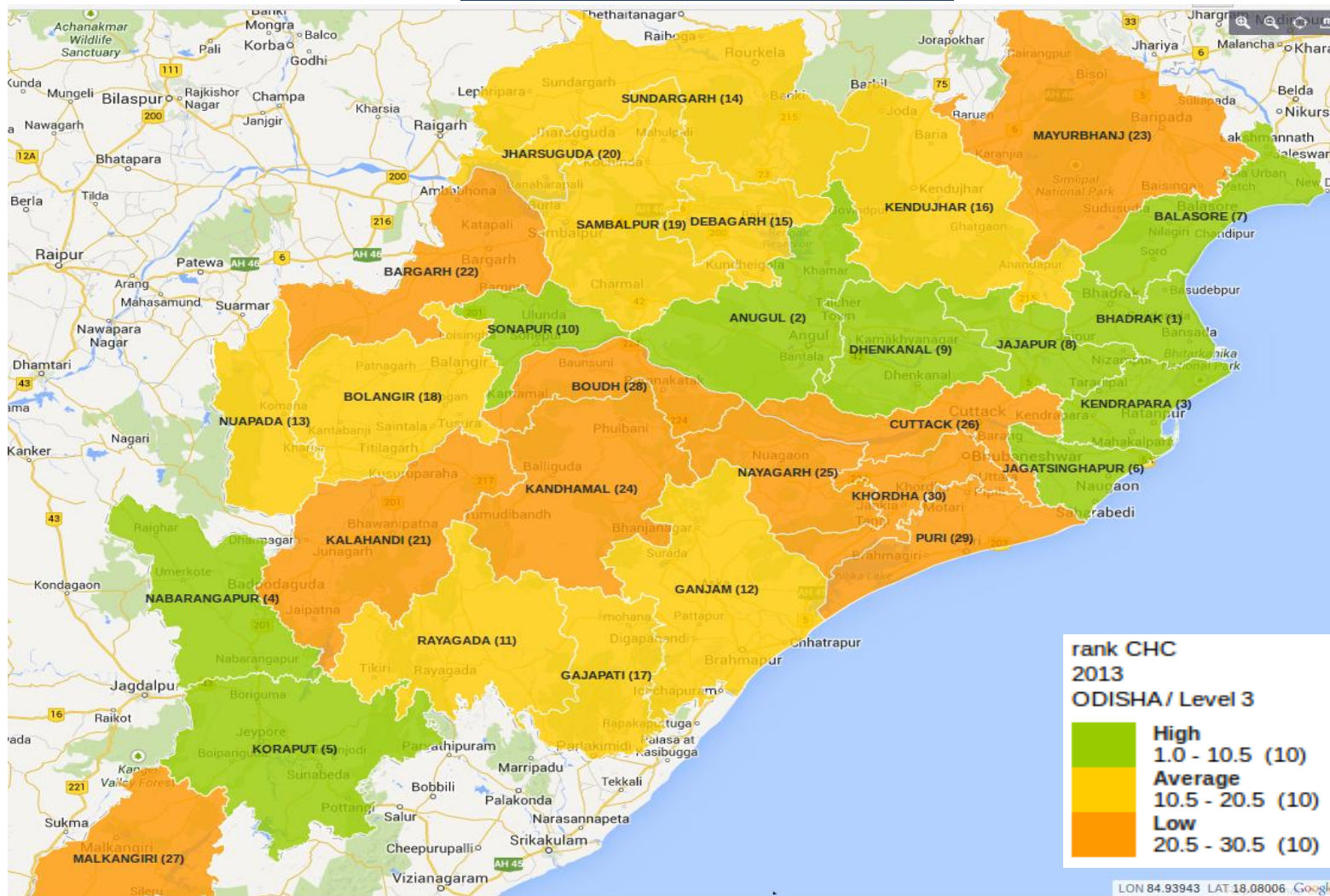
RANKING OF DISTRICTS FOR HEALTH FACILITIES PERFORMANCE

HEALTH FACILITIES PERFORMANCE					
DISTRICT	SC SCORE	PHC SCORE	CHC SCORE	TOTAL SCORE	Z SCORE	RANKING
PURI	-8	-49	-27	-84	-2.38	RANK 30
KHORDHA	16	-41	-29	-54	-1.67	RANK 29
BOUDH	8	-37	-24	-53	-1.64	RANK 28
CUTTACK	-10	-27	-12	-49	-1.55	RANK 27
JAGATSINGHAPUR	-9	-41	23	-27	-1.02	RANK 26
NAYAGARH	13	-24	-11	-22	-0.90	RANK 25
SONAPUR	13	-36	16	-7	-0.55	RANK 24
BARGARH	12	-13	-4	-5	-0.50	RANK 23
MAYURBHANJ	12	-12	-5	-5	-0.50	RANK 22
GAJAPATI	-7	0	5	-2	-0.43	RANK 21
KANDHAMAL	-6	12	-7	-1	-0.40	RANK 20
BOLANGIR	12	-4	5	13	-0.07	RANK 19
BALASORE	21	-28	21	14	-0.05	RANK 18
KALAHANDI	5	14	-1	18	0.05	RANK 17
MALKANGIRI	12	22	-16	18	0.05	RANK 16
JAJAPUR	-3	7	18	22	0.14	RANK 15
RAYAGADA	18	-10	15	23	0.17	RANK 14
GANJAM	7	4	14	25	0.22	RANK 13
SAMBALPUR	-1	34	0	33	0.41	RANK 12
KORAPUT	-4	9	29	34	0.43	RANK 11
DEBAGARH	22	8	7	37	0.50	RANK 10
KENDUJHAR	27	6	5	38	0.53	RANK 9
NUAPADA	16	15	13	44	0.67	RANK 8
KENDRAPARA	14	4	32	50	0.81	RANK 7
NABARANGAPUR	4	22	30	56	0.95	RANK 6
JHARSUGUDA	19	40	0	59	1.03	RANK 5
SUNDARGARH	23	29	11	63	1.12	RANK 4
BHADRAK	11	-1	55	65	1.17	RANK 3
DHENKANAL	23	46	18	87	1.69	RANK 2
ANUGUL	14	31	43	88	1.72	RANK 1

GIS VISUALISATION FOR HEALTH FACILITIES PERFORMANCE

HEALTH FACILITIES RANKING - SC

rank SC
2013
ODISHA / Level 3

High
1.0 - 10.5 (10)

Average
10.5 - 20.5 (10)

Low
20.5 - 30.5 (10)

LON 83.82294 LAT 18.03959

Odisha HMIS Analysis Report 2013

HEALTH FACILITIES RANKING - PHC

HEALTH FACILITIES RANKING - CHC

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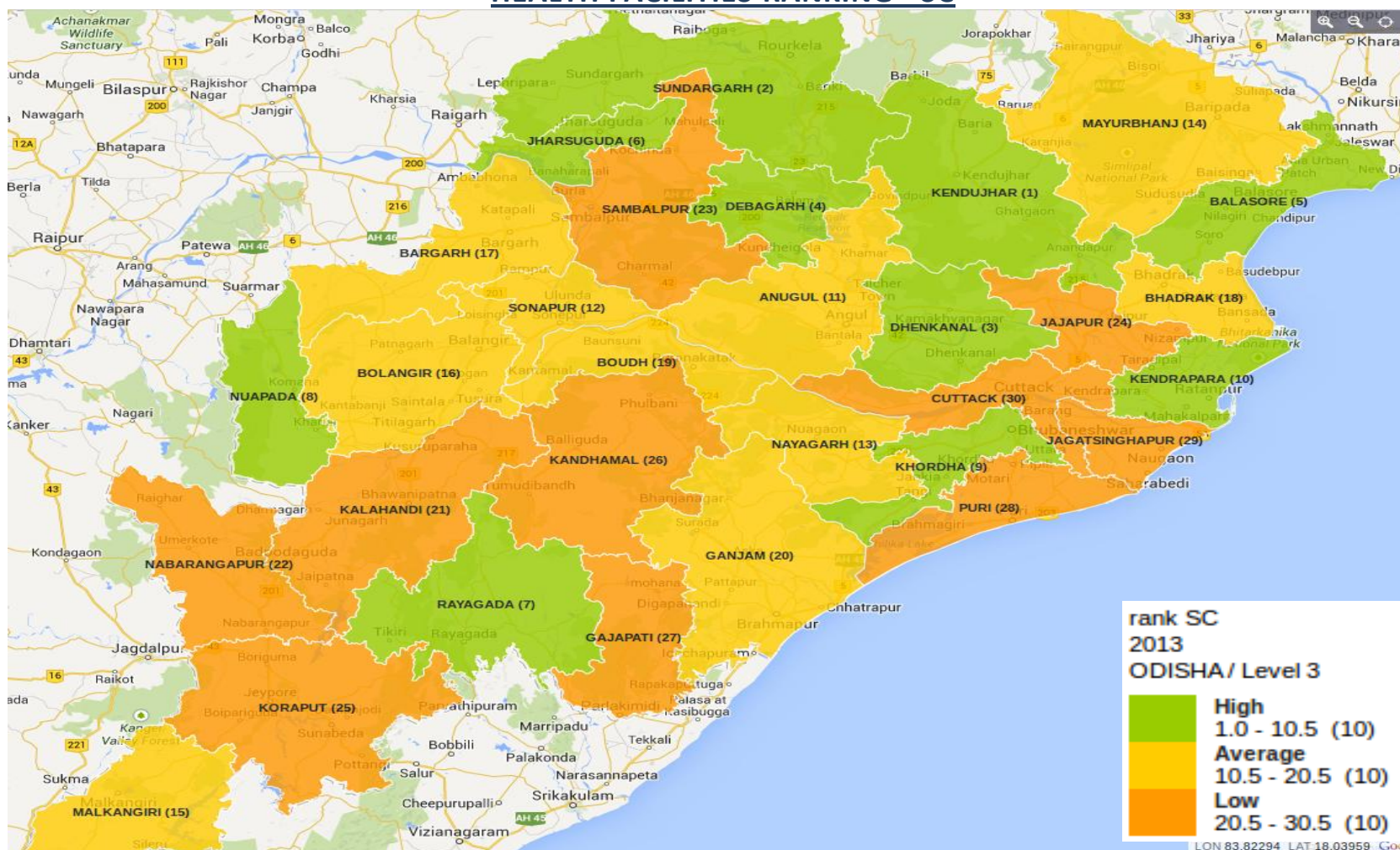
HEALTH FACILITIES RANKING - OVERALL

ACCESS TO HEALTH CARE

DISTRICT	ANC		DELIVERY	CHILD IMMUNIZATION	DROPOUT RATE		
	ANC REG AGST ESTD PREG	ANC 3RD VISIT AGST ESTD PREG	HOME DELV NON SBA RATE	FULL IMMUNISATION UNDER 1 YR AGAINST ESTD LIVE BIRTHS	ANC 1ST TO 3RD VISIT	BCG TO DPT3	BCG TO MEASLES
ANUGUL	98	87	83	100	11	5	-2
BALASORE	85	72	93	81	15	6	2
BARGARH	82	72	90	84	13	2	-7
BHADRAK	84	75	47	80	11	-5	-8
BOLANGIR	85	66	89	79	22	0	-9
BOUDH	58	52	94	63	9	0	-23
CUTTACK	70	64	94	72	9	13	4
DEBAGARH	94	92	92	88	2	-18	-17
DHENKANAL	79	76	56	76	3	2	-8
GAJAPATI	104	84	90	88	19	-2	6
GANJAM	88	81	85	82	7	5	-6
JAGATSINGHAPUR	79	74	70	85	7	8	-1
JAJAPUR	92	83	99	89	10	12	6
JHARSUGUDA	83	73	88	85	12	-1	-8
KALAHANDI	92	80	83	85	13	5	-2
KANDHAMAL	93	84	80	79	10	12	14
KENDRAPARA	85	75	93	84	12	7	-2
KENDUJHAR	91	82	96	83	10	4	10
KHORDHA	71	56	93	71	22	27	21
KORAPUT	80	64	93	70	19	8	5
MALKANGIRI	97	85	95	84	13	16	8
MAYURBHANJ	89	79	96	80	12	16	12
NABARANGAPUR	96	76	96	77	21	7	5
NAYAGARH	79	67	85	76	16	0	-9
NUAPADA	99	85	88	90	14	11	10
PURI	77	68	41	81	12	-7	-16
RAYAGADA	94	80	92	77	15	8	13
SAMBALPUR	82	75	96	85	8	24	20
SONAPUR	65	62	85	67	4	-1	-9
SUNDARGARH	81	79	91	86	2	-20	-23
ODISHA	84	74	90	80	12	7	2

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SCORING OF DISTRICTS FOR ACCESS TO HEALTH CARE

Each district has scored for access to health care based on 7 key indicators. It will be appropriate to look into the scoring of each district for access to health care so as to do interventions which are information based.

The following districts showing poor score for access to health care

DISTRICTS OF ODISHA WITH POOR SCORING FOR ACCESS TO HEALTH CARE
HEALTH CARE ACCESS (7 INDICATORS)
KHORDHA
KORAPUT
CUTTACK
NABARANGAPUR
SAMBALPUR
BOUDH
MAYURBHANJ
RAYAGADA
NAYAGARH
BALASORE

The Districts listed for Performance for health care access need intervention. When the scores for each district has aggregated for each indicator and based on overall scoring, the districts shown poor scoring for health care access is listed in Table above. The table shows the shows poor scoring districts from above downwards.

RANKING OF DISTRICTS FOR ACCESS TO HEALTH CARE

ACCESS TO HEALTH CARE (7 INDICATORS)			
DISTRICT	TOTAL SCORE	Z SCORE	RANKING
KHORDHA	-24	-2.61	RANK 30
KORAPUT	-15	-1.70	RANK 29
CUTTACK	-14	-1.60	RANK 28
NABARANGAPUR	-7	-0.89	RANK 27
SAMBALPUR	-6	-0.79	RANK 26
BOUDH	-5	-0.69	RANK 25
MAYURBHANJ	-5	-0.69	RANK 24
RAYAGADA	-4	-0.58	RANK 23
NAYAGARH	-3	-0.48	RANK 22
BALASORE	-2	-0.38	RANK 21
BOLANGIR	0	-0.18	RANK 20
MALKANGIRI	0	-0.18	RANK 19
SONAPUR	0	-0.18	RANK 18
BARGARH	1	-0.08	RANK 17
KENDRAPARA	1	-0.08	RANK 16
JAJAPUR	4	0.23	RANK 15
KANDHAMAL	4	0.23	RANK 14
KENDUJHAR	5	0.33	RANK 13
JHARSUGUDA	6	0.43	RANK 12
JAGATSINGHAPUR	7	0.53	RANK 11
NUAPADA	7	0.53	RANK 10
PURI	7	0.53	RANK 9
DHENKANAL	8	0.63	RANK 8
GAJAPATI	9	0.74	RANK 7
KALAHANDI	10	0.84	RANK 6
GANJAM	13	1.14	RANK 5
SUNDARGARH	14	1.24	RANK 4
BHADRAK	15	1.34	RANK 3
ANUGUL	18	1.65	RANK 2
DEBAGARH	21	1.95	RANK 1

GIS VISUALISATION FOR ACCESS TO HEALTH CARE

ACCESS TO HEALTH CARE

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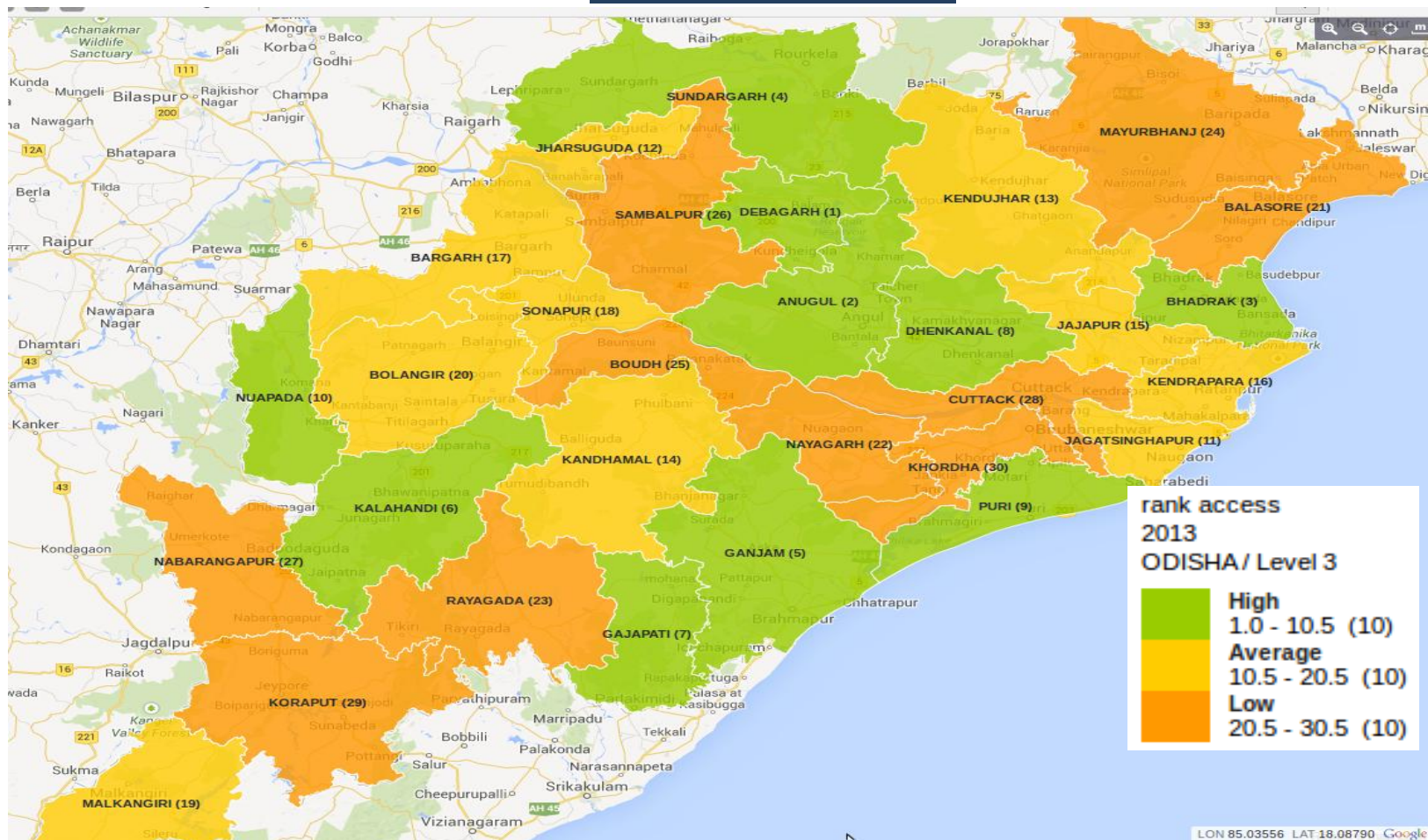
OVERALL SCORING FOR DISTRICTS

Total scoring has done for all the districts based on the service delivery (life cycle approach), health facilities performance and access to health care.

SERVICE DELIVERY	HEALTH FACILITIES PERFORMANCE	ACCESS TO HEALTH CARE
• Pregnancy care • Child birth • PNC & Newborn care • Reproductive age group	• SCs • PHCs • CHCs	• Gaps/ Outreach • Dropout

DISTRICTS OF ODISHA WITH POOR SCORING (OVERALL SCORING)

SERVICE DELIVERY (16 INDICATORS)	HEALTH FACILITIES PERFORMANCE (41 INDICATORS)	ACCESS TO HEALTH CARE (7 INDICATORS)	OVERALL (64 INDICATORS)
RAYAGADA	PURI	KHORDHA	KHORDHA
GAJAPATI	KHORDHA	KORAPUT	CUTTACK
KORAPUT	BOUDH	CUTTACK	PURI
MALKANGIRI	CUTTACK	NABARANGAPUR	BOUDH
NABARANGAPUR	JAGATSINGHAPUR	SAMBALPUR	NAYAGARH
BOLANGIR	NAYAGARH	BOUDH	SONAPUR
GANJAM	SONAPUR	MAYURBHANJ	GAJAPATI
JAJAPUR	BARGARH	RAYAGADA	MAYURBHANJ
KENDRAPARA	MAYURBHANJ	NAYAGARH	RAYAGADA
SONAPUR	GAJAPATI	BALASORE	JAGATSINGHAPUR

The table shows the shows poor scoring districts from above downwards.

OVERALL RANKING FOR DISTRICTS

DISTRICT	SERVICE DELIVERY SCORE	ACCESS TO HEALTH CARE SCORE	HEALTH FACILITIES PERFORMANCE SCORE	TOTAL SCORE	Z SCORE	RANKING
KHORDHA	-6	-24	-54	-84	-1.99	RANK 30
CUTTACK	-4	-14	-49	-67	-1.65	RANK 29
PURI	13	7	-84	-64	-1.59	RANK 28
BOUDH	0	-5	-53	-58	-1.48	RANK 27
NAYAGARH	-5	-3	-22	-30	-0.92	RANK 26
SONAPUR	-9	0	-7	-16	-0.65	RANK 25
GAJAPATI	-22	9	-2	-15	-0.63	RANK 24
MAYURBHANJ	2	-5	-5	-8	-0.49	RANK 23
RAYAGADA	-24	-4	23	-5	-0.43	RANK 22
JAGATSINGHAPUR	18	7	-27	-2	-0.37	RANK 21
KORAPUT	-21	-15	34	-2	-0.37	RANK 20
BARGARH	5	1	-5	1	-0.31	RANK 19
MALKANGIRI	-16	0	18	2	-0.29	RANK 18
BOLANGIR	-10	0	13	3	-0.27	RANK 17
KANDHAMAL	10	4	-1	13	-0.08	RANK 16
BALASORE	3	-2	14	15	-0.04	RANK 15
JAJAPUR	-10	4	22	16	-0.02	RANK 14
GANJAM	-10	13	25	28	0.22	RANK 13
SAMBALPUR	7	-6	33	34	0.34	RANK 12
KALAHANDI	8	10	18	36	0.38	RANK 11
NABARANGAPUR	-12	-7	56	37	0.40	RANK 10
KENDUJHAR	-4	5	38	39	0.43	RANK 9
KENDRAPARA	-9	1	50	42	0.49	RANK 8
NUAPADA	-6	7	44	45	0.55	RANK 7
DEBAGARH	-1	21	37	57	0.79	RANK 6
JHARSUGUDA	13	6	59	78	1.20	RANK 5
BHADRAK	11	15	65	91	1.46	RANK 4
SUNDARGARH	24	14	63	101	1.66	RANK 3
ANUGUL	1	18	88	107	1.77	RANK 2
DHENKANAL	19	8	87	114	1.91	RANK 1

GIS VISUALIZATION FOR OVERALL RANKING

OVERALL RANKING FOR DISTRICTS

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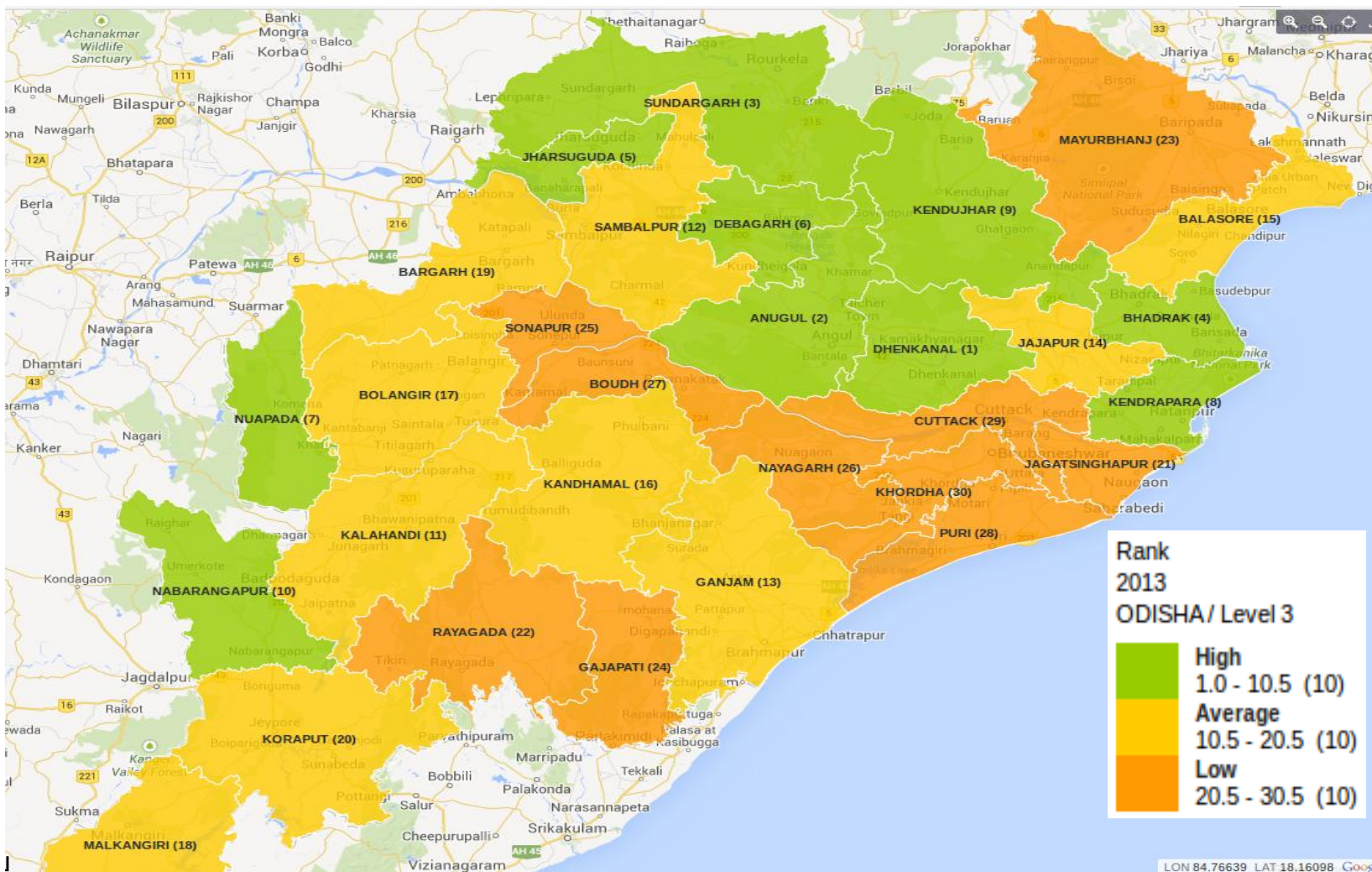
DISCUSSION

The Odisha state has shown overall progress in Health Management Information Systems in terms of reporting, data completeness, data timeliness and service delivery. The coverage and quality of service delivery has been shown improvement in 2013. In Odisha, facility wise data entry has been processed since Oct 2010 and there is significant increase in data reporting of health facilities since Apr 2011.

About service delivery, there is significant increase in access to antenatal care services and delivery services in 2013. The indicators for coverage and quality of antenatal care services have shown improvement when compared with previous year.

The percentage of pregnant women registered for Ante-Natal care services are increased by 9% from 42% in 2012 to 51% in 2013 which shows the awareness among the population and increased access to ante-natal care services. Sonapur, Debagarh, Jharsuguda and Ganjam districts show 19, 28, 28 and 30 and when we drill down to Sonapur districts, Dunguripalli Block shows very less % for ANC registration in 1st trimester rate.

In case of mortality, the infant mortality rate for Odisha is 18 per 1000 live births. The reporting of infant deaths has improved in the state. In 2012, the districts of Odisha have reported less than 10 infant deaths per 1000 live births.

DISTRICT	IMR	PERINATAL MORTALITY RATE
NUAPADA	54	85
NABARANGAPUR	48	74
MALKANGIRI	42	59
KALAHANDI	38	57
BOUDH	35	53
BOLANGIR	33	49
KORAPUT	32	46

In case of maternal mortality ratio (MMR), Odisha shows 108 Maternal deaths per 100,000 live births and there are 16 districts reported more than 100 maternal deaths per 100,000 live births and these districts need to be focused for further improvement in pregnancy and delivery care services.

DISTRICTS	INFANT MORTALITY RATE	MATERNAL MORTALITY RATIO
DEBAGARH	22	536
BOUDH	35	395
BARGARH	30	294
NUAPADA	54	235
MALKANGIRI	42	227
NABARANGAPUR	48	222
KANDHAMAL	28	200
SONAPUR	25	196
KALAHANDI	38	189
BOLANGIR	33	186
SUNDARGARH	22	172
MAYURBHANJ	23	122
GAJAPATI	10	121
KORAPUT	32	119
KENDUJHAR	21	119
BALASORE	19	118

RECOMMENDED ACTION

Ante-Natal Care

Improved access to Ante-Natal care services is a good sign of improvement and there should be improvisation of quality of Ante-Natal care services in terms of identifying high risk pregnancies at the earliest and treat or refer to higher facilities. The State should ensure that every pregnant woman should have received quality in ANC check up like examination, blood pressure, blood test for hb. The report has provided the number of health facilities district-wise who are not reported any case of ANC hypertension new case, Hb tested and ANC registration from Apr to Oct 2013 and we recommend the state have to act upon these facilities which are not reported above mentioned services to pregnant women. The percentage of pregnant not availed any services is estimated as 16% for Odisha in 2013. Boudh, Sonepur, Cuttack and Khorda shows 42%, 35%, 30% and 29% pregnant women not availed any ante-natal care services which can further enquired for social or geographical barriers for access to ANC.

Reporting Issues in ANC coverage

The state needs to check if there are any reporting issues for ANC TT2/ Booster coverage and ANC third visit. We have observed similar figures for both of the data elements by some of the health facilities and also when checked with reported figures it shows quite high % for Boudh, Sonepur and Cuttack districts. When the same districts are checked with estimated pregnancies it shows very less % for coverage of ANC services.

Delivery Care

The State has shown improvement in % of institutional delivery which is 88% in 2013 and it has increased by 1% from 87% in 2012. The percentage of delivery by SBA has also increased by 1% and the home delivery has decreased from 18% in 2011, 16% in 2012 and 12% in 2013. The percentage of unreported delivery for Odisha is estimated as 21%. Boudh, Puri, Nayagarh, Sonepur and Khorda districts shows high % for unreported deliveries which is 52%, 49%, 41%, 40% and 31% respectively. Gajapati district shows 52% institutional deliveries against total ANC registered and when we refer ANC registration against estimated pregnancies, it shows 104 % and it implies that there is more % of unreported deliveries in Gajapati. Most of the deliveries in Kasinagar CHC of Gajapati districts are reported as complicated pregnancies. It needs to be enquired whether they are all complicated pregnancies or reporting issues. VSSMC. Burla of Sambalpur districts has not reported any complicated pregnancies attended from Apr to Oct 2013. Angul district shows only 2% for caesarean section delivery rate and the state's average is 10% and it should be enquired for very less % c-sec reported. 92% of institutional deliveries are discharged under 48 hrs of delivery in Boudh district and it needs serious attention, if most of the institutional deliveries are discharged under 48 hours when GOI says it is mandatory for women should stay atleast 48 hrs after delivery for normal as well as c-sec delivery.

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Post-Natal & Newborn Care

The state shows 94% for Newborn breastfed within 1 hr and it has increased by 1% when compared with previous year. About 30% of Home deliveries in Odisha have not reported to have newborn visited within 24 hours of delivery. Jajapur district shows only 43% of home deliveries where newborn visited within 24 hours. Blocks of Jajapur districts shows very less percentage for home delivery newborn visited within 24 hrs rate and it needs to further enquired why it is not happening. Boudh, Sonapur, Koraput, Khordha and Cuttack districts shows 63, 67, 70, 71 and 72 % respectively for full immunized child less than 1 year against estimated live births.

Reporting Issues for Low birth weight babies

Khandamal district shows 26% for low birth weight babies (less than 2.5 kgs) and SCs of Daringibadi Block has reported more LBW babies and this may be due to reporting issues.

Family Planning Services

Boudh, Cuttack and Puri districts shows very less post-partum sterilization against total female sterilization. In Odisha, 18 districts showing less than 1% for Male sterilization against total sterilization. Malkangiri, Gajapati, Sonapur and Rayagada districts show only 41, 44, 45 and 49% respectively for IUCD against total FP methods including permanent plus IUCD.