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**Quality Assurance – Facility Based New Born Care  
3<sup>rd</sup> Quarter (FY 12-13) Monitoring Report**

**(Division-wise / District-wise Fact Sheet & Summary Report)**

**Compiled by :-**

**Quality Assurance Cell, SHSB**

**&**

**UNICEF, Patna**

## Monitoring & Mentoring Visit summary Report (3<sup>rd</sup> quarter – FY 2012-13)

### 1. Objective of the monitoring visit :

- To assess the units for clinical care against common norms and standards
- To assess the knowledge & skill level of NBCC staffs
- To identify gaps/weaknesses in the quality of care and provide onsite corrective action
- To understand the Recording, Reporting & Feedback mechanisms in the units

### 2. Various Parameters captured through this monitoring :

<p>Inputs:</p> <ul style="list-style-type: none"> <li>• Infrastructure</li> <li>• Staff- turnover</li> <li>• Equipment- breakdown</li> <li>• Drugs- supply</li> </ul>	<p>Process:</p> <ul style="list-style-type: none"> <li>• Hand washing- before entering and after touching every baby</li> <li>• Client provider interaction</li> <li>• Record Keeping</li> <li>• Adherence to protocol and guidelines</li> <li>• Training of staff</li> <li>• Actions taken to repair the equipment</li> <li>• Twin sharing of beds</li> <li>• Breast feeding of admitted babies</li> </ul>
<p>Output:</p> <ul style="list-style-type: none"> <li>• Providers' perspective-             <ul style="list-style-type: none"> <li>• Admission rates</li> <li>• Morbidities</li> <li>• Mortality</li> <li>• Referral to higher centres</li> <li>• LAMA</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Client s' perspective-             <ul style="list-style-type: none"> <li>• Satisfaction</li> <li>• Care provided by staff</li> <li>• Treatment</li> <li>• Behavior</li> <li>• Expenditure on treatment</li> </ul> </li> </ul>

### 3. Criteria to assess status of NBCC :

<b><i>Categorization of status of NBCC- 3 categories with color coding</i></b>	
<b><i>Fully Functional (Fulfilling all 5 criteria)</i></b>	<p><b><i>A. <u>Newborn Care: Newborn babies provided with Essential Newborn Care .</u></i></b></p> <p><b><i>B. <u>Other parameters.</u></i></b></p> <ol style="list-style-type: none"> <li><b><i>1. Equipment : All equipment are functional</i></b></li> <li><b><i>2. Human Resources : All staff are trained &amp; skilled (at least 4 ANM /Grade-A)</i></b></li> <li><b><i>3. Protocol :Asepsis maintained &amp; Protocols followed strictly</i></b></li> <li><b><i>4. Records &amp; reports:ecord keeping good &amp; report sent to SHS regularly</i></b></li> </ol>
<b><i>Partially Functional</i></b>	<b><i>A plus Anyone of the above B criteria.</i></b>
<b><i>Not Functional</i></b>	<b><i>Not fulfilling any of A and B criteria</i></b>

<b>Essential criteria for qualitative FBCC operationalization</b>	
All equipment are functional	<p>Following six neonatal equipment <b>along with Voltage Stabilizer</b> need to be in working condition</p> <ol style="list-style-type: none"> <li>1. Radiant Warmer</li> <li>2. Phototherapy</li> <li>3. Oxygen Concentrator</li> <li>4. Suction Machine</li> <li>5. AMBU Bag</li> <li>6. Weighing Scale</li> </ol>
All staff (4-ANM/A-Grade Nurse;1-MO;3-Gr IV)are trained & skilled	<p>All staff need to be trained on 1 day NSSK/NBCC training and Possess the required skill for handling newborn babies</p> <p>(Skills are assessed by observation &amp; live demonstration on mannequin)</p>
Asepsis maintained & Protocols followed strictly	<p>Cleansing of labor room and NBCC areas at least 3 times daily and NBCC equipment once daily</p> <p>Staff need to practice at least the following 5 protocols:</p> <ol style="list-style-type: none"> <li>1. Hand wash</li> <li>2. Resuscitation</li> <li>3. KMC</li> <li>4. Breast Feeding</li> <li>5. BMW management</li> </ol>
Record keeping good & report sent to SHS regularly	<p>Maintaining and updating NBCC register &amp; sending report monthly to SHS</p>
Newborn babies provided with Essential Newborn Care(ENC)	<ol style="list-style-type: none"> <li>1. Prevention of infection</li> <li>2. Provision of Warmth</li> <li>3. Resuscitation</li> <li>4. Early initiation of breastfeeding</li> <li>5. Weighing the newborn</li> <li>6. Immunization</li> </ol>
Essential Life Saving drugs	<p>NBCCs should have at least these 5 essential drugs:-</p> <ol style="list-style-type: none"> <li>1. Adrenaline</li> <li>2. Normal Saline</li> <li>3. Inj. Vitamin-K</li> <li>4. Dextrose 5% or 10%</li> <li>5. Inj. Antibiotics</li> </ol>
Consumables	<p>NBCCs need to have the following items</p> <ol style="list-style-type: none"> <li>1. Sterile Gloves</li> <li>2. Disposable Syringes &amp; Needle</li> <li>3. Baby Wrapping towel</li> <li>4. Soap &amp; Towel for wash basin</li> <li>5. Color coded bags &amp; bins</li> </ol>

#### 4. **Health facilities visited :**

A total of 484 health facilities were visited for monitoring and mentoring during 3<sup>rd</sup> quarter (January 2013).

Sr. No	Name of Districts	No. Of NBCCs monitored	Sr. No	Name of Districts	No. Of NBCCs monitored
1	Patna	19	20	W. Champaran	18
2	Buxar	9	21	Sitamarhi	13
3	Bhojpur	15	22	Sheohar	4
4	Nalanda	12	23	Darbhanga	11
5	Kaimur	10	24	Madhubani	20
6	Rohtas	19	25	Samastipur	20
7	Arwal	4	26	Purnia	13
8	Nawada	14	27	Kishanganj	9
9	Aurangabad	11	28	Katihar	16
10	Gaya	18	29	Araria	9
11	Jehanabad	7	30	Madhepura	14
12	Bhagalpur	15	31	Supaul	11
13	Banka	11	32	Saharsa	10
14	Saran	15	33	Munger	9
15	Siwan	15	34	Jamui	10
16	Gopalganj	14	35	Sheikhpura	6
17	Muzzaferpur	16	36	Khagaria	7
18	Vaishali	16	37	Begusarai	19
19	East Champaran	20	38	Lakhisarai	5
<b>Total NBCCs monitored: 484</b>					

#### 5. **NBCC STATUS**

*(Source: Quality Assessment Tool Data of 2<sup>nd</sup> Quarter and 3<sup>rd</sup> Quarter)*

##### **5.1 AT A GLANCE :**

NBCC functionality Status	2 <sup>nd</sup> qtr	3 <sup>rd</sup> qtr
Fully Functional	161	179
Partially Functional	319	303
Not Functional	4	2
<b>Total</b>	<b>484</b>	<b>484</b>

*Few NBCCs which were not established in 2nd Quarter visit have been treated as non functional NBCCs for comparison.*

## **5.2 DETAILED FUNCTIONALITY STATUS : (3<sup>RD</sup> QTR REPORT) :**

### **i. Fully functional : 179 NBCC**

1.	<b>Vaishali:</b> Desari, Goraul, Vaishali.
2.	<b>Muzaffarpur:</b> Aurai, Gaighat, Katra, Marwan, Mushari, Paroo, Sakra, Saraiya.
3.	<b>Begusarai:</b> Balia, Barauni, Khodawandpur, Matihani,.
4.	<b>Jamui:</b> Sadar Hospital, Chakai, Jhajha, Gidhaur, Laxmipur, Khaira, Sikandra, Aliganj.
5.	<b>Lakhisarai:</b> Sadar Hospital, Halsi, Barhiya, Suryagarha.
6.	<b>Munger:</b> Sadar Hospital, Dharhara, Bariyarpur, Tarapur, Jamalpur.
7.	<b>Sheikhpura:</b> Sadar Hospital, Ariari, Barbiga, Chewara, Ghatkusumbha, Shekhopursarai.
8.	<b>Buxar:</b> Chougai, Itarhi, FRU Dumraon, Simri.
9.	<b>Bhojpur:</b> RH Shahpur, Piro.
10.	<b>Nalanda:</b> Rahui, FRU Rajgir.
11.	<b>Patna:</b> Maner, Bakhtiarapur, FRU Danapur, Punpun, Phulwarisharif.
12.	<b>Araria:</b> Forbisganj, Bhargama.
13.	<b>Katihar:</b> Sameli, Kadwa, Dandkhora, Mansahi.
14.	<b>Kishanganj:</b> Bahadurganj, Kishanganj DH, Pothiya, Kishanganj PHC.
15.	<b>Purnia:</b> K. Nagar, Dhamdaha, B. Kothi.
16.	<b>Rohtas:</b> Akhourigola, Rajpur, Nasriganj, SDH Bikramganj, Karakat, Dinara.
17.	<b>Banka:</b> Sadar Hospital, Amarapur, Katoria, Barahat, Dhoriya, Shambhuganj, Fullidumar.
18.	<b>Bhagalpur:</b> Pirpainty, Jagdishpur, Sanhoula, Sadar Hospital, Kharik, Naugachia, Sultanganj, Sahkund, Bihpur.
19.	<b>Darbhanga:</b> Ghanshyampur, Kiratpur, Keoti.
20.	<b>Madhubani:</b> Basopatti, Benipatti, Ghoghardiha, Khutauna, Ladania, Phulparas, Sadar Hospital.
21.	<b>Saharsa:</b> Sadar PHC, Simri Bakhtiyarpur, Salkua, Panchagachia, Sourbazar.
22.	<b>Suapul:</b> Chatapur, Pratapganj, Raghobpur, Basantpur, Kisanpur, Nirmali, Marauna.
23.	<b>Madhepura:</b> Singheshwar, Murliganj, Alamnagar, Chousa.
24.	<b>Sheohar:</b> Triyani.
25.	<b>Gopalganj:</b> Sadar Hospital, Baikunthpur, Barauli, Phulwaria, Uchkagaon.
26.	<b>Khagaria:</b> Chautham, Parbatta, DH Khagaria, Gogri.
27.	<b>Saran:</b> Dighawara, Ekma, Manjhi, Revilganj, Sadar Hospital, Sonpur.
28.	<b>Sitamarhi:</b> Bajpatti, Pupri, Baigania, Belsand, Dumra, Runnisadpur.
29.	<b>Siwan:</b> Barharia, Basantpur, Darauli, Maharajgunj, Mairwa, Raghunathpur, Siswan.
30.	<b>Gaya:</b> Bankebajar, Gurua, Barachatti, Khijarsarai, Manpur, Sherghati, Amas, Koch, Tekari, Bodhgaya.
31.	<b>Aurangabad:</b> Sadar Hospital, Goh, Haspura, Obara, Barun.
32.	<b>Nawada:</b> Pakribarwa, Nardiganj.
33.	<b>Jehanabad:</b> Hulasganj, Ratni-Faridpur, Okari.
34.	<b>Arwal:</b> Kaler, Sadar Hospital, Kurtha.
35.	<b>Kaimur:</b> Mohania, DH Kaimur.
36.	<b>East Champaran :</b> Areraj, Chakiya, Turkauliya, Sugauli
37.	<b>West Champaran :</b> Gaunaha, Ram Nagar, Bagha 1
38.	<b>Samastipur:</b> Rosera, Sarairanjan, Mohiuddinnagar, Hasanpur, Shivajeenagar, Khanpur.

### **ii. Partially functional: 303 NBCC**

**iii. Non functional: 2 NBCC- Begusarai: Manjhol, Shambo.**

## 6. IMPROVEMENT IN FUNCTIONALITY SINCE 2<sup>ND</sup> QTR

- **Upgraded from partial to fully functional (60 NBCCs):** Jagdishpur (Bhagalpur) Sadar Hospital, RU Amarpur, PHC Katoria, Dhoraiya, Shambhuganj (Banka), PHC Benipatti (Madhubani), Mohiuddinagar, Rosera, Dalsingsarai, Shivajeenagar, Khanpur & Hasanpur (Samastipur), Sadar PHC, PHC Simri-Bakhtiyarpur, PHC Salkhua, PHC Panchgachia (Saharsa), PHC Raghapur, PHC Nirmali, PHC Kisanpur (Supaul), Bodhgaya (Gaya), Nardiganj, Pakaribarwan (Nawada), Ghatkusumbha (Sheikhpura), Sikandra (Jamui), Gogri, Chautham, Parbatta, DH Khagaria (Khagaria), Dumra (Buxer), RH Naubatpur, PHC Punpun, PHC Phulwarisharif (Patna), PHC DH Kaimur (Kaimur), PHC Bhargama (Araria), PHC Pothiya (Kishanganj), Sameli, Kadwa, Mansahi (Katihar), Barauli (Gopalganj), Sonpur, Dighwara & Manjhi PHC (Saran), Mairwa & Maharajganj (Siwan), Areraj, Turkauliya, Chakiya & Sugauli (East Champaran), PHC Aurai and Gaighat (Muzaffarpur), Gaunaha, Ramnagar and Bagha (West Champaran), PHC Desri (Vaishali), Bajpatti (Sitamarhi), PHC Tariyani (Sheohar), Sadar Hospital, PHC Kurtha (Arwal).
- **Upgrade from non-functional to partially functional (2 NBCCs):** SDH Jhanjarpur (Madhubani), PHC Bithan (Samastipur).
- **Upgrade from non-functional to fully functional :0 NBCCs.**
- **Downgraded from fully to partial functional (40 NBCCs) [Due to non-functional neonatal equipment, asepsis not maintained, degradation of skill & protocols not followed]:** Kahalgaon (Bhagalpur), PHC Jalley, Bahadurpur, Hayaght, Biroul, Benipur, Baheri (Darbhanga), PHC Bishphi, Jainagar, Khajauli & Pandaul (Madhubani), PHC Saraigarh (Supaul), Goh PHC (Aurangabad), JPN Hospital & Wazirganj (Gaya), Rajouli (Nawada), Teghara, Nawkothi, Cheria Bariyapur and Garhpura (Begusarai), Barhat and Sono (Jamui), Alauli (Khagaria), PHC Teragach, Konchdhaman, Thakurganj, Dighalbank & Chhatargach (Kishanganj), Sadar Hospital, Hasanganj, Kursela, Falka (Katihar), Banmankhi (Purniya), PHC Bochahan, kanti and Motipur (Muzaffarpur), Bhagwanpur, and Patedi Belsar (Vaishali), Parihar (Sitamarhi), PHC Piprahi (Sheohar), PHC Karpi (Arwal)
- **Shifting of NBCC:**

7.1 Location of NBCC					
2nd Quarter			3rd Quarter		
Inside LR	Outside LR	Total	Inside LR	Outside LR	Total
243 (50%)	241 (50%)	484	250 (52%)	234 (48%)	484
<p>i. <b>NBCCs shifted from outside to inside LR (9) :</b> PHC Sabour (Bhagalpur ), PHC Sarairanjan &amp; PHC Tajpur Kothia (Samastipur), PHC Pipra (Supaul), Goraul, Vaishali, Mahnar &amp; Raghapur (Vaishali), Sadar Hospital (Arwal).</p> <p>ii. <b>NBCCs shifted from inside to outside LR (2):</b> Patahi (East Champaran) and PHC Tariyani (Sheohar).</p>					

## 7. **Compartitive status of NBCC functionality in 2<sup>nd</sup> & 3<sup>rd</sup> quarter (FY 12-13)**

<b>7.2 Status of Equipment functionality</b>				
<b>Name Of Equipment</b>	<b>2nd Quarter</b>		<b>3rd Quarter</b>	
	<b>Available</b>	<b>Functional</b>	<b>Available</b>	<b>Functional</b>
Radiant warmer	499	454	506	457
Phototherapy unit	452	436	454	439
Oxygen concentrator	464	405	481	414
Weighing machine	482	479	488	483
Suction machine	447	371	451	378
AMBU bag	459	449	456	445
Stabilize (2 KVA)	407	384	437	416
<i>No. of PHC equipped with all functional equipment</i>	221		247	
<i>No. of PHC with functional stabilizer</i>	346		376	

<b>7.3 Equipment wise –Facility wise status of functionality</b>			
<b>S. No</b>	<b>Name of Equipment</b>	<b>2nd Quarter (September -2012)</b>	<b>3<sup>rd</sup> Quarter (January- 2013)</b>
		<b>Name of PHC (Equipment not available and not functional)</b>	<b>Name of PHC (Equipment not available and not functional)</b>
1.	Radiant Warmer	<p><b>Not Available:</b> PHC Samho (Begusarai).</p> <p><b>Not Functional:</b> PHC Madanpur (Aurangabad), Patahi (E.Champaran), Sahebganj (Muzaffarpur), Bhitaha (West Champaran), Hawelikharagpur, Sangrampur (Munger), Sadar Hospital (Sheikhpura), PHC Dehri (Rohtas), Singhia, Kalyanpur, Rosera (Samastipur), Sadar Hospita I(Sheohar), PHC Panchgachia, PHC Patarghat, PHC Simri-Bakhtiyarpur (Saharsa), Belaganj (Gaya), Durgabati, Rampur (Kaimur), Pothiya (Kishanganj), Roh, Govindpur, Kasichak (Nawada), Katoria(Banka), Manihari (Katihar), Gamharia, Bihariganj, Kumakhand, Gwalpara, Puriani and Alamnagar (Madhepura), Maraudha PHC (Saran), Panchrukhi PHC (Siwan), RH Sandesh, Udwanatnagar, Agiawa (Bhojpur), Dumraon (Buxar), Baisa, Dagarwa, Srinagar(Purnia), PHC Triveniganj, PHC Kisanpur, PHC Nirmali(Supaul).</p>	<p><b>Not Available:</b> PHC Samho (Begusarai)</p> <p><b>Not Functional:</b> Bounsi (Banka), PHC Kahalgaon (Bhagalpur),Hayaghat &amp; Biroul (Darbhanga),Bishphi (Madhubani),RU Pusa, Tajpur Kothia &amp; Ujiiarpur (Samastipur),Gamharia, Bihariganj (Madhepura), PHC Patarghat (Saharsa), PHC Triveniganj (Supaul), PHC Madanpur (Aurangabad), JPN Hospital (Gaya), Govindpur (Nawada), Hawelikharagpur, Sangrampur (Munger), Cheria Bariarpur, Bhagawanpur, Chorahi (Begusarai), Beldaur (Khagaria), Sahar, Sadar Hospital, Ara Prakhand (Bhojpur), Masaudhi (Patna), Durgabati and Kudra (kaimur), Karghar (Rohtas), Teragach, Konchadhaman, Thakurganj &amp; Dighalbank (kishanganj), Baisa, Banmankhi (Purnia), Kuchaikote &amp; Manjha (Gopalganj), Guthani PHC (Siwan), Kesariya (East Champran), Muraul (Muzaffarpur), Bhitaha (West Champaran), Riga (Sitamarhi), PHC Purnahiya (Sheohar).</p>

2.	Photo-therapy	<p><b>Not Available:</b> Sadar Hospital (Araia), Navinagar, Kutumba, Daudnagar, Barun, Haspura &amp; Rafiganj (Aurangabad), Madhuban, Mehsi, Paharpur and Patahi(E.Champaran), Desari, Sahdai Bujurg, Goraul, Bhagwanpur, Patepur, Raghopur, P. Belsar, Biddupur, Mahnar, Rajapakar, Chehrakala, Vaishali, Lalganj, Sadar Hospital, Jandaha, Mahua(Vaishali), Sadar Hospital(Saharsa), PHCSamho (Begusarai), Sadar Hospital (Madhepura), Sadar Hospital (Siwan), Sarmera, Hilsa, Islampur, Giriyak (Nalanda), Sadar hospital (Purnia), Sadar Hospital (Supaul).</p> <p><b>Not Functional:</b> Chhouradano and Kalyanpur (E.Champaran), Hawelikharagpur, Sangrampur (Munger), Warisnagar (Samastipur), PHC Salkhua, PHC Simri-Bakhtiyarpur (Saharsa), Durgabati, Ramgarh (Kaimur), Mansurchack(Begusarai), Chautham(Khagaria), Bajpatti, Bathnaha (Sitamarhi), PHC Punpun (Patna), Baisi (Purnia).</p>	<p><b>Not Available:</b> Sadar Hospital (Madhepura), Sadar Hospital (Saharsa), Sadar Hospital(Supaul), Navinagar, Kutumba, Daudnagar, Barun, Haspura &amp; Rafiganj (Aurangabad), PHC Samho (Begusarai), Sarmera, Hilsa, Islampur, Giriyak (N alanda),Sadar Hospital (Araria),Sadar hospital, Baisa (Purniya),Madhuban, Mehsi, Paharpur and Patahi (East Champran), Desari, Sahdai Bujurg, Goraul, Bhagwanpur, Patepur, Raghopur, P. Belsar, Biddupur, Mahnar, Rajapakar, Chehrakala, Vaishali, Lalganj, Sadar Hospital, Jandaha, Mahua (Vaishali)</p> <p><b>Not Functional:</b> Biroul &amp; Baheri (Darbhanga), Sadar Hospital (Jahanabad), Fathepur (Gaya), Kauakol (Nawada), Mansurchack and Nawkothi (Begusarai), Durgabati (kaimur), PHC Tilouthu (Rohtas), District Hospital (Katihar), Banmankhi (Purniya), Kuchaikote (Gopalganj), Kalyanpur (East Champran), Narkatiyaganj (West Champaran),</p>
3.	Oxygen Concentrator	<p><b>Not Available:</b> Sadar Hospital (Araia), Sadar Hospital(Muzaffarpur), Desari, Sadar Hospital(Vaishali), Hasanpur, Bithan, Singhia, Rosera, Shivajeenagar, Mohiuddinnagar, Mohanpur, Patori, Vidyapatnagar, Dalsingsarai, Ujjiyarpur, Sarairanjan, Kalyanpur, Pusa, RU Tajpur, KothiaTajpur, Warisnagar, Khanpur (Samastipur), Sadar Hospital (Saharsa), Shamho and Manjhol (Begusarai), Sadar Hospital (Siwan), Sadar Hospital, Tarari (Bhojpur), Sadar Hospital (Buxar), Sadar Hospital (Supaul).</p> <p><b>Not Functional:</b> Kursakanta, Raniganj (Araia), Rafiganj &amp; Daudnagar (Aurangabad), Jagdishpur, Pirpainti and Nathnagar (Bhagalpur), Manigachi (Darbhanga), Sahebganj (Muzaffarpur), Raghopur(Vaishali), Hawelikharagpur(Munger), Karahgar, Tilauthu, Nasirganj, Bikramganj (Rohtas), Sadar Hospital Samastipur (Samastipur), Sadar Hospital (Sheohar), Laukahi, Madhepur (Madhubani), PHC Sadar, PHC Mahisi(Saharsa), Lady Elgine(Gaya), Durgabati, Adhaura, Chainpur (Kaimur), PHC Sirdala(Nawada), Sikandra (Jamui), Bhagwanpur, Bachhwada, Dandari,Sahebpur Kamal and Chhorahi(Begusarai), Manjha (Gopalganj), Barai, Pranpur, Amdabad(Katihar), Gogari, Mansi(Khagaria), Kumarkhand, Bihariganj, Udakishanganj and Gwalpara(Madhepura), Majorganj, Riga, Belsand, Sadar Hospital (Sitamarhi), Bihia, Sahar, RH Jagdishpur(Bhojpur), PHC Punpun, PHC Bikram, PHC sampatchak(Patna), Amour,Baisee,Dagarwa,Kasba(Purni), PHC Pipra, PHC Triveniganj(Supaul).</p>	<p><b>Not Available:</b> PHC Madhepur (Madhubani),RU Pusa (Samastipur),Sadar Hospital (Saharsa),Sadar Hospital(Supaul), Lady Elgine (Gaya), Shamho and Manjhol (Begusarai),Sadar Hospital, Tarari (Bhojpur),Sadar Hospital (Buxer),Sadar Hospital (Araria), Amour (Purniya),Sadar Hospital (Muzaffarpur)</p> <p><b>Not Functional:</b> Nathnagar (Bhagalpur), Hayaghat, Biroul, Benipur &amp; Baheri (Darbhanga), Khajauli &amp; Madhwapur (Madhubani), PHC Ujjiyarpur (Samastipur), Bihariganj, Udakishanganj (Madhepura), PHC Nauhatta (Saharsa), PHC Pipra, PHC Triveniganj (Supaul), Fathepur (Gaya), Sagrampur (Munger), Mansurchack, Bhagwanpur, Bachhwada, Dandari, Sahebpur Kamal, Garhpura, Bakhari and Sadar Begusarai (Begusarai), Barhat and Sono (Jamui), Alauli, Beldaur , Mansi (Khagaria), Sahar(Bhojpur), Sadar Hospital, PHC Ekangarsarai (Nalanda),PHC Fatua, PHC Sampatchak (Patna),Adhaura, Chainpur, Ramgarh &amp; Durgabati (kaimur), Karahgar, Tilauthu (Rohtas), Raniganj, Palasi &amp; Kursakanta(Araria), Barai, Falka, Amdabad, Azamnagar &amp; Pranpur (Katihar),Banmankhi, Baisee, Kasba (Purniya),Kuchaikote &amp; Manjha (Gopalganj),Kesariya and Mehsi (East Champran),Bochahan and Sahebganj (Muzaffarpur), Nautan and Chanpatiya</p>



			(West Champran), Majorganj, Riga, Bathanaha, Sadar Hospital (Sitamarhi), PHC Karpi (Arwal)
4.	Suction machine	<p><b>Not Available:</b> Sadar Hospital, Jokihat (Araia), PHC Goh (Aurangabad), Dhaka, Chhauradano, Harsidhi, Kalyanpur, Madhuban, Ramgarhwa and Sugauli(E.Champaran), Gaighat, Kudhni and Muraul(Muzaffarpur), Jandaha, Biddupur(Vaishali), Nautan, Majhauilya, Narkatiyaganj, Gaunaha, Sikta, Mainatand, Chanpatiya, Lauriya, Piprasi, Madhubani, Bhitaha, Thakraha and Bagha 1(West Champaran), Asarganj and Tetiyabamber(Munger), Akhorigola (Rohtas), Bithan, Vidyapatingar (Samastipur), Sadar Hospital, PHC Purnahiya, PHC Tariyani(Sheohar), Aandhrathadi (Madhubani), PHC Sadar (Saharsa), Bhabua(Kaimur), PHC Sirdala, Akbarpur, Pakrivarwa(Nawada), Sadar Hospital Banka(Banka), Shamho(Begusarai), Amdabad (Katihar), Ramgarhchauck (Lakhisarai), Gamharia, Gwalpara, Murho(Madhepura), Maraudha, Mashrakh(Saran), RH Sandesh, Agiawa(Bhojpur), Harnaut, Giriyak (Nalanda), SDH Barh, PHC Pandarak(Patna), Sadar Hospital (Purnia), PHC Pipra(Supaul).</p> <p><b>Not Functional:</b> Bhargama, Palasi(Araia), Sadar Hospital(Arwal), Madanpur, Navinagar&amp;Daudnagar(Aurangabad), Singhwara(Darbhanga), Sahebganj (Muzaffarpur), Sahdai Bujurg, Mahnar(Vaishali), Sagrampur (Munger), Ghatkusumbha, Ariari &amp; Shekhopursarai (Sheikhpura), Nasirganj, Nokha, Rohtas(Rohtas), Kalyanpur, Mohanpur(Samastipur), Benipatti &amp; Rajnagar(Madhubani), PHC Mahisi(Saharsa), Atri(Gaya), Durgabati, Nuaon, Ramgarh(Kaimur), PHC Roh, Sadar, Kauakol(Nawada), Sikandra(Jamui), RU Amarpur and RU Bounsi(Banka), Mansurchack, Manjhol, Bachhwada, Bhagwanpur, Virpur, Bakhari, DH Begusarai, Dandari, S Kamal, Teghra&amp;Baruni(in Teghra&amp;Baruni(Begusarai), Thawe (Gopalganj), Barari, Korha, Azamnagar, Barsoi, Telta, Manihari (Katihar), Mansi, Beldaur(Khagaria), Bihariganj (Madhepura), Udwantnagar (Bhojpur), Ekangarsarai, Chandii(Nalanda), PHC Daniawa, PHC Dhanurwa, PHC Bihta(Patna), Amour,Baisee,Dagarwa, Bhawanipur,Rupouli,Kasba, B.Kothi, Rupouli(Purnia).</p>	<p><b>Not Available:</b> Rajnagar, Bishphi, Andhrathadi, Jhanjharpur (Madhubani),Gamharia, Gwalpara, Murho &amp; Gehlar(Madhepura),PHC Goh and Navinagar (Aurangabad), Kako, Ghoshi (Jahanabad),Wazirganj (Gaya),PHC Akbarpur &amp; Narhat (Nawada), Asarganj and Tetiyabamber (Munger), Shamho (Begusarai), Ramgarhchauck (Lakhisarai), Ara Prakhand, Agiawa, Gadhani (Bhojpur), Harnaut (Nalanda), SDH Barh, PHC Pandarak, PHC Sampatchak (Patna),Sadar Hospital, Kursakanta(Araia), Amdabad (Katihar), Sadar Hospital (Purniya),Thawe (Gopalganj), Maraudha (Saran),Dhaka, Harsidhi, Kalyanpur, and Ramgarhwa (East Champran),Kanti and Kudhni (Muzaffarpur),Nautan, Majhauilya, Narkatiyaganj, Sikta, Mainatand, Chanpatiya, Yogapatti, Lauriya, Piprasi, Madhubani and Thakraha (West Champran),Jandaha, Hajipur (Vaishali),Sadar Hospital, PHC Purnahiya (Sheohar)</p> <p><b>Not Functional:</b> Manigachi, Bahadurpur, Sighwara and Hayaghat (Darbhanga),Jainagar, Laukahi, Madhepur (Madhubani),Sadar Hospital, RU Pusa, Tajpur (Samastipur),Bihariganj (Madhepura), PHC Saraigarh(Supaul), Madanpur, Dev &amp; Daudnagar (Aurangabad),Sadar Hospital (Jahanabad), Fathepur and Paraiya (Gaya), PHC Kashichack (Nawada), Mansurchack, Manjhol, Bachhwada, Bhagwanpur, Virpur, Bakhari, Teghra, Chorahi &amp; Nawkoth (Begusarai), Mansi, Beldaur (Khagaria),PHC Dhanurwa, PHC Bihta (Patna), Adhaura, chainpur, Ramgarh&amp;Nuan (kaimur),Dighalbank (kishanganj), Korha, Kursela, Barari, Amdabad, Azamnagar, Manihari, Hasanganj &amp; sadar Hospital (Katihar),Amour, Baisee, Baisa, Banmankhi (Purniya),Kuchaikote (Gopalganj), Madhuban, Mehsi, Pakdidayal and Sadar Hospital (East Champran), Motipur (Muzaffarpur), Bairiya (West Champran), Patepur, Rajapakar, Biddupur, Raghopur (Vaishali), PHC Piprahi (Sheohar)</p>
	AMBU Bag	<p><b>Not Available:</b> Sadar Hospital (Arwal), Chhauradano, Chiraiya, Dhaka, Ghoresahan, Kalyanpur, Ramgarhwa, Raxaul and Sugauli (E.Champaran), Sadar Hospital (Muzaffarpur), Rajapakar(Vaishali), Narkatiyaganj, Sikta, bagha 2,</p>	<p><b>Not Available:</b> RU Tajpur(Samastipur),Makhdumpur (Jahanabad),Rajouli(Nawada),Shamho(Begusarai),Ramgarhchauck (Lakhisarai),Agiawa(Bhojpur),Adhaura (kaimur),Sadar Hospital,Jokihat</p>

5.		<p>Piprasi, Madhubani, Bhitaha, Thakraha(West Champaran), Karahgar and Kochas (Rohtas), Bithan, Mohanpur(Samastipur), Kudra (Kaimur), Sadar hospital (Nawada), Shamho (Begusarai), Ramgarhchauck(Lakhisarai), Agiawa, Gadhani(Bhojpur).</p> <p><b>Not Functional:</b> Dehri (Rohtas), Vidyapatnagar, Singhia, Hasanpur (Samastipur), Harlakhi &amp; Aandhrathadi (Madhubani), Nardiganj (Nawada), Chandan &amp; Dhoraiya (Banka).</p>	<p>(Araria),Konchadhman &amp; Chhatargach (kishanganj),Falka, Kursela. Azamnagar, Pranpur &amp; Manihari (Katihar),Sadar Hospital, Dagarua, Kasba (Purniya), Chhauradano, Chiraiya, Ghoresahan and Ramgarhwa (East Champran),Sadar Hospital (Muzaffarpur),Sikta, Mainatand, Bagha 2, Piprasi, Madhubani (West Champaran)</p> <p><b>Not Functional:</b> Jalley &amp; Benipur (Darbhanga),Jainagar(Madhubani),PHC Patori(Samastipur),Sadar Hospital, Sirdella, Warsaliganj, Kashichack, Roh (Nawada),Rohtas,Nauhatta (Rohtas),Adapur (East Champran),</p>
6.	Weighing Scale	<p><b>Not Available:</b> PHCKarpi (Arwal), Patori, Vidyapatnagar (Samastipur), RU Bounsi &amp; PHC Chandan(Banka), Sambho (Begusarai), Agiawa, Gadhani (Bhojpur).</p> <p><b>Not Functional:</b> Madhuban and Paharpur (E.Champaran), Manjhol (Begusarai).</p>	<p><b>Not Available:</b> Wazirganj (Gaya),Shamho(Begusarai),Agiawa(Bhojpur )</p> <p><b>Not Functional:</b> Manjhol (Begusarai), PHC Hasanganj (Katihar),Madhuban (East Champran),</p>
7.	Stabilizer (2KVA)	<p><b>Not Available:</b> Sadar Hospital, Palasi (Araia), Sadar, Goh,Navinagar, Kutumba, Daudnagar, Haspura (Aurangabad), Harsidhi, Madhuban, Mehsi (E.Champaran), Aurai, Minapur, Muraul, sahebganj and Sadar Hospital(Muzaffarpur), Desari, Sahdai Bujurg, Rajapakar, Mahua, Chehrakala, Sadar Hospital(Vaishali), Bhitaha, Thakraha(West Champaran), PHC Akhorigola, Tilauthu, Sadar Hospital, Nauhatta(Rohtas), Bithan, Tajpur (Kothia), Vidyapatnagar (Samastipur), Sadar Hospital (Saharsa), Bhabua, Nuaon, Ramgarh(Kaimur), Thakurganj (Kishanganj), Sadar Hospital, Pakribarawa, Hisua, Warshaliganj, Govindpur, Sirdala, Narhat, Meskaur, Roh, Meskaur(Nawada), Shamho and Manjhol(Begusarai), Bhore (Gopalganj), Sadar Hospital, Gamharia, Puraini (Madhepura), Dighwara, Taraiya (Saran), Bathanaha(Sitamarhi), Guthani, Mairwa, Sadar Hospital(Siwan), Agiawa, Gadhani , Tarari(Bhojpur), Sadar Hospital(Buxar), Chandi, Giriya (Nalanda) PHC Sampatchak, Masaudhi, Gardanibagh, PHC Pandarak, RH Bihta(Patna), Sadar Hospital,Rupouli(Purnia), PHC Triveniganj, PHC Nirmali, PHC Pratapganj, PHC Raghopur(Supaul).</p> <p><b>Not Functional:</b> Patepur, Mahnar, Lalganj(Vaishali), Asarganj(West Champaran), Kalyanpur and Shivajeenagar (Samastipur), Sadar Hospital(Sheohar), PHC Mahisi, PHC Nauhatta (Saharsa), Pothiya (Kishanganj), Sikandra (Jamui), Barauli, Manjha, Sidhawaliala (Gopalganj), Bihia, Barhara, RH Sandesh(Bhojpur), Bramhapur (Buxar), PHC Bikram(Patna), Amour , Dagarwa (Purnia), PHC Pipra (Supaul).</p>	<p><b>Not Available:</b> Sadar Hospital, Gamharia, Puraini &amp; Gehlar (Madhepura),Sadar Hospital (Saharsa),PHC Triveniganj (Supaul,) Navinagar, Barun, Daudnagar (Aurangabad),Sadar hospital (Jahanabad), Wazirganj (Gaya), Sadar Hospital, Hisua, Govindpur, Sirdala, Narhat, Warsaliganj, Kashichack, Nardiganj (Nawada),Shamho and Manjhol (Begusarai),Agiawa,Gadhani , Tarari(Bhojpur),Sadar Hospital (Buxer),PHC Sampatchak, Gardanibagh, PHC Pandarak (Patna),Kudra,Chainpur(kaimur),): Sadar Hospital, Palasi (Araria),PHC Hasanganj (Katihar),Sadar Hospital, K- Nagar (Purniya),Garkha (Saran),Harsidhi, Madhuban, Mehsi (East Champran),Sahebganj and Sadar Hospital (Muzaffarpur), Lalganj, Mahua, Chehrakala, Rajapakar, Sahdai Bujurg, Hajipur, P. Belsar (Vaishali),Bathanaha (Sitamarhi),PHCKarpi (Arwal)</p> <p><b>Not Functional:</b> Biroul &amp; Baheri (Darbhanga),TajpurKothia&amp; RU Pusa(Samastipur),PHC Mahisi, PHC Sonbarsa (Saharsa),Madanpur (Aurangabad),Asarganj (Munger),Nuaon&amp;Ramgarh(kaimur),PHC Chenari (Rohtas),Banmankhi(Purniya),Kudhni (Muzaffarpur), Sikta and Mainatand (West Champaran), Patepur, Mahnar (Vaishali),</p>

#### 7.4 Status of drugs availability in NBCC :

Status of DRUG			
No. of NBCC with all drug		2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter
		138/484 (28.5%)	201/484 (41.5%)
Sl.No.	Name of Drug	No. of NBCC	No. of NBCC
1	Adrenaline	201	276
2	Antibiotics	443	450
3	Dextrose 5%	440	445
4	Vitamin –K	196	282
5	Normal Saline	447	458

**Major Observations:**

- **All five essential drugs:** Available only in 138 (28.5%) NBCC out of 484 NBCCs monitored in 2<sup>nd</sup> EQM visit whereas in 3<sup>rd</sup> EQM 2012-13 monitoring availability of all 5 essential drugs status increased to 201 (41.5%) NBCCs out of the 484 NBCCs monitored.
- **Individual drug status:** Availability of each essential drug marginally improved in 3<sup>rd</sup> EQM monitoring but still availability of Vit- K Injection and Adrenaline were found only in approximately 57% of NBCCs.

#### 7.5 Status of Consumables & Misc. Items

Status of Consumables & Misc. Items			
No. Of NBCC with all Consumables & Misc. Item		2nd Quarter	3rd Quarter
		149/484 (31%)	208/484 (43%)
Sl.No.	Name of Consumables	No. of NBCC	No. of NBCC
1	Sterile Gloves	428	433
2	Disposable Syringe& Needle	464	471
3	Baby Wrapping Towel	289	313
4	Soap for Hand washing	408	406
5	Colour Coded Bags	273	324
6	Mucous Sucker	264	287

**Major Observations:**

**Availability of essential consumables & miscellaneous items:** Only 149 (31%) NBCCs out of 484 NBCCs monitored in 2<sup>nd</sup> EQM visit were had all the 6 items whereas during 3<sup>rd</sup> EQM visit availability of all the above item were increased to 208 (43%) NBCCs.

## 7.6 Protocol display and utility :

2nd Quarter			2nd Quarter		
All Protocols displayed as per standards.	All protocols not displayed as per standard	Total	All Protocols displayed as per standard	All protocols not displayed as per standard	Total
305 (63%)	179 (37%)	484	322 (66.5%)	162 (33.5%)	484

**Major Observations:**

**Proper display of protocols improved in the following NBCCs during 3rd Quarter visit:** Nardiganj & Pakaribarwan (Nawada), Areraj, Chakiya, Kalyanpur, Kesariya, Turkauliya and Sugauli (East Champaran), Aurai, Gaighat, Katra, Marwan, Musahari, Paroo, Sakra, Kanti and Saraiya (Muzaffarpur), Goraul, Desari, Vaishali and Bhagwanpur (Vaishali), Sadar Hospital (Arwal).

**Proper display of protocols decrease in the following NBCCs:** PHC Gopalpur (Bhagalpur), Mansahi & Kadwa (Kaithar), Hathua (Gopalganj).

## 7.7 Recording & Reporting :

2nd Quarter				3rd Quarter				Total NBCCs	
NBCC register		Equipm ent register	Monthl y report	Total NBCC Cs	NBCC register		Equip ment registe r		Monthl y report
Availa ble	Upda ted	Availabl e	Availab le		Availa ble	Updat ed	Availa ble		Availab le
464	441	38	424	484	477	460	63	452	484

**Major Observations:**

**Equipment register were made available :** Pirpainty, Jagdishpur, Sulatnganj, SakhundNathnagar and Narayanpur PHC (Bhagalpur), Ghosi, Makhdumpur and Ratni-Faridipur PHC (Jehanabad), Tilouthu, Rohtas, Dinara (Rohtas), Bahadurganj, Sadar hospital, Terahgach, Konchadhaman and Thakurganj (Kishanganj), Sadar Hospital, Kurtha&Karp (Arwal)

**Monthly NBCC report was not available during 3rd EQM visit :** PHC Hayaghat (Darbhanga), Bahadurganj, Kishanganj PHC & Dighalbank (Kishanganj), Parihar (Sitamarhi)

**NBCC register made available during 3rd EQM visit:** In PHC Andhrathadi (Madhubani), PHC Bithan (Samastipur), Sadar Hospital, PHC Mahisi (Saharsa), Barun, Kutumba, Haspura, Rafiganj, Madanpur, Sadar Hospital, Obera, Deo (Aurangabad), Mansahi, Sameli (Katihar), Sadar Hospital (Arwal)

**NBCC register not updated during 3rd quarter visit:** PHC Hulasganj (Jehanabad), Nawanagar (Buxar), PHC Sampatchak, Gardanibagh, RH Bihta, Khusrupur (Patna), Sadar Hospital (Rohtas), Sadar Hospital & Thakurganj (Kishanganj), PHC Dagarua, Kasba, Rupouli, Bhawanipur (Purniya), PHC Chhauradano, Harsidhi, Dhaka and Patahi (East Champaran), Bagha 2 (West Champaran), Biddupur and P. Belsar (Vaishali)

**NBCCs not having NBCC register during 3rd EQM visit:** PHC Govindpur (Nawada), PHC Manjhol & Samho (Begusarai), PHC Dagarua, Kasba, Rupouli, Bhawanipur (Purniya) and Sadar Hospital (Buxar).

**NBCC register updated during 3rd EQM visit :** Udwantnagar, Shahpur, Jagdishpur, Piro, Koilwar, Charpokhari, Gadhani, Tarari, Barhara, Ara Prakhanda, Sahar, Sandesh, Sadar Hospital, Agiawa and Bihia (Bhojpur), Simri, Dumraon, Itarhi, Rajpur, Chousa, Chougai and Bramhapur (Buxar), Noorsarai, Rajgir, Asthawa, Sadar Hospital, Sarmera, Isalampur, Rahui, Hilsa, Ekangarsarai, Harnaut, Chandi and Giriya (Nalanda), Bakhtiarpur, Mokama, Pandarak, Daniyawa, Danapur, Dhanurwa, Masaudhi, Maner, Barh, Paliganj, Naubatpur, Bikram, Phulwarisharif, Fatua and Punpun (Patna), Kochas, Rohtas, Tilouthi, Dinara, Nauhatta, Bikramganj, Sanjhouli, Nokha, Suryapura, Rajpur, Nasriganj, Dehri, Akhaurigola, Shivsagar, Dawath, Karakat, Karhagar, Chenari (Rohtas).

**7.8 Human Resources (HR) trained and possess required skill :**

(ANM/Staff Nurse-4; Medical Officer-2; Ancillary Staff-3)

(Skills were assessed by direct observation and through demonstration on mannequin)

S. N	Staff	2nd Quarter		3rd Quarter	
		Trained	Possess Require Skills*	Trained	Possess Require Skills*
1	MO	1022	761 (74%)	1197	894 (75%)
2	SN/ANM	2629	1571 (63%)	3446	1959 (57%)
3	Ancillary	NA	NA	NA	NA

S. N.	Staff	3 <sup>rd</sup> Quarter									
		Available	Trained	Possess Require Skills in Resuscitation		Possess Require Skills in Handling of all the Equipment for providing Essential Newborn care		Possess Require Skills in Measuring exact birth weight by using weighing machine		Possess Require Skills in Techniques of Breast feeding & KMC	
1	MO	2315	1197	882	74%	895	75%	992	83%	1012	85%
2	SN/ANM	9549	3446	1971	57%	2013	58%	2397	70%	2609	76%
3	Ancillary	459	NA	NA	NA	NA	NA	NA	NA	NA	NA

S. N	Staff	2 <sup>nd</sup> Quarter									
		Available	Trained	Possess Require Skills in Resuscitation		Possess Require Skills in Handling of all the Equipment for providing Essential Newborn care		Possess Require Skills in Measuring exact birth weight by using weighing machine		Possess Require Skills in Techniques of Breast feeding & KMC	
1	MO	2325	1022	714	71%	746	73%	849	82%	833	83%
2	SN/ANM	9549	2629	1313	54%	1474	58%	1750	68%	1805	72%
3	Ancillary	726	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Major Observations:**

**Trained Manpower:** Trained MO/ANM/SN status increased in 3<sup>rd</sup> Quarter EQM as compared to 2<sup>nd</sup> Quarter EQM in 2012-13.

**Skill Status:** Though Skill status in providing Essential Newborn Care & Handling NBCC equipment improved in the 3<sup>rd</sup> Quarter but still it was very low.

## 8. Specific recommendation & Way Forward

1. Voltage stabilizers need to be provided for the major equipment in the NBCCs.
  2. **Power audit for all facilities (NBCC)** should be done. Inadequate earthing in certain places has caused the staff not to use the equipment for fear of getting a shock on touching. Proper earthing should be done and an earthing pit can be created. Earth resistance should be measured on periodic basis, at least twice a year.
  3. **Hand wash facility equipped with all the amenities** should be placed inside the point of care. Ideally there should be elbow operated or foot operated tap. Alcohol based hand rub like sterilium can be provided for handling babies.
  4. **All staff should wear uniform along with gown.** All the care providers should change their dress/ wear a gown before entering the unit. (To prevent the germs from being carried into the unit and also to identify the care providers.
  5. **Uniform Equipment maintenance register in all NBCCs should be maintained.**
  6. **Refreshment training should be conducted periodically to reinforce skills of essential newborn care.**
-