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Internship Training

at



New Delhi

Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards

by

Dr. Arpita Agrawal PG/16/009

Under the guidance of Dr. Manish Priyadarshi Associate Professor, IIHMR

Post Graduate Diploma in Hospital and Health Management 2016-18



International Institute of Health Management Research
New Delhi

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International Institute of Health Management Research
New Delhi

This certificate is awarded to

Dr. Arpita Agrawal

in recognition of having successfully completed her Internship in

Quality Improvement Division, National Health Systems Resource Centre

and has successfully completed her project on

Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards

at

National Health System Resource Centre, New Delhi

She comes across as a committed, sincere and diligent person who has a strong drive and zeal for learning.

We wish her all the best for future endeavors

Date: 08th May 2018

Dr J.N Srivastava Advisor, Ql NHSRC, New Delhi

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dr. Arpita Agrawal student of Post Graduate Diploma in Hospital and Health Management (PGDHM) from International Institute of Health Management Research, New Delhi has undergone internship training at National Health System Resource Centre, New Delhi from February 2018 to April 2018.

The candidate has successfully carried out the study designated to her during internship training and her approach to the study has been sincere, scientific and analytical.

The internship is in fulfilment of the course requirements.

I wish her all success in all his future endeavors.

Dr. Supten Sarbhadhikari

Dean, Academics and Student Affairs

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27 CERTIFICATE OF APPROVAL

The following dissertation titled "Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards" at "National Health System Resource Centre, New Delhi" is hereby approved as a certified study in management carried out and presented in a manner satisfactorily to warrant its acceptance as a prerequisite for the award of Post Graduate Diploma in Health and Hospital Management for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein but approve the dissertation only for the purpose it is submitted.

Dissertation Examination Committee for evaluation of dissertation.

Signature Date:

Certificate from Dissertation Advisory Committee

This is to certify that Dr Arpita Agrawal, a graduate student of the Post- Graduate Diploma in Health and Hospital Management has worked under our guidance and supervision. She is submitting this dissertation titled "Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards" at "National Health System Resource Centre, New Delhi" in partial fulfillment of the requirements for the award of the Post- Graduate Diploma in Health and Hospital Management.

This dissertation has the requisite standard and to the best of our knowledge no part of it has been reproduced from any other dissertation, monograph, report or book.

INTERNATIONAL INSTITUTE OF HEALTH MANAGEMENT RESEARCH, NEW DELHI

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This is to certify that the dissertation titled "Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards" and submitted by Dr Arpita Agrawal Enrollment No. PGDHM-009 under the supervision of Dr Manish Priyadarshi, Associate Professor, IIHMR Delhi for award of Postgraduate Diploma in Hospital and Health Management of the Institute carried out during the period from 2016 to 2018 embodies my original work and has not formed the basis for the award of any degree, diploma associate ship, fellowship, titles in this or any other Institute or other similar institution of higher learning.

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Area of Dissertation: Impact of Implementation of Knycholo Initiative on artification of Public Media Attendance: Facilities to NOAs
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Date: 08.5.18
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ABSTRACT

IMPACT OF IMPLEMENTATION OF 'KAYAKALP' INITIATIVE ON QUALITY CERTIFICATION OF PUBLIC HEALTH FACILITIES TO NATIONAL QUALITY ASSURANCE STANDARDS

Backgroun 29 Ministry of Health and Family Welfare (MoHFW) has developed National Quality Framework to assess quality of services for improvement and helps in certification of facilities while KAYAKALP was launched to promote cleanliness and hygiene in public health facilities. KAYAKALP is a sub-set of National Quality framework as they have common standards in their assessment checklist. We assessed if KAYAKALP implementation within the public health facilities support Quality Certification of health facilities. Methods: We designed Retrospective study to gathered data for 32 Quality certified and 06 deferred/declined district hospitals under National Quality Assurance Standards (NQAS) between May 2015 to April 2018 by reviewing records. Certification criteria and their External assessment checklist under NOAS & KAYAKALP program for district hospitals were extracted from their respective states. Data included their external assessment score, total no of facilities certified under NQAS and no of facilities scored more than 70% under KAYAKALP in external assessment and National assessment scores of declined/deferred district hospitals under NQAS. Data were analyzed using SPSS version 22 for Pearson Correlation Analysis, MS Excel 2016 for Pareto and Statistical Analysis. Result: Pearson Correlation Coefficient was 0.217, which means KAYAKALP implementation have less significance on the Quality certification of public health facilities to NQAS. In addition, coverage of Public Health Facilities as per their award criteria under NQAS & KAYAKALP was determined.

	Percentage of Health Facilities Coverage as per award criteria			
Name of the Program	under NQAS & KAYAKALP (April 2018)			
	DH	SDH/CHC	PHC	
NQAS Certified	3.4%	0.12%	0.17%	
KAYAKALP Award	31.71%	13.34%	8.34%	

After pareto analysis, done to identify major factors resulted in deferred/declined Quality Certification of district hospitals under NQAS, major area of concern Quality Management (49%) and Outcome (59%) were find out to be the responsible factors. **Conclusion:** Overall impact of implementation of KAYAKALP initiative on Quality Certification of Public Health Facilities to National Quality Assurance Standards was significantly low, however this could be due to many possible reasons which author have enumerated in detail in the subsequent report.

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At the onset of the report, I would like to acknowledge my sincere thanks to the institute, International Institute of Health Management Research, for providing a platform to gain enough knowledge and skills in different aspects of health management. Most importantly I would like to thank Dr Manish Priyadarshi, Associate Professor, IIHMR Delhi for all encouragement and inspiring support in completion of this study. I would like to thank Dr Kirti Udayai, Assistant Professor, IIHMR, New Delhi for giving her valuable time and inputs during the study. I also owe a great debt to Dr J.N. Srivastava, Advisor, and entire Quality Improvement Division, NHSRC, for giving me an opportunity to conduct this study. I would also like to thank all team members of QI, Division who despite of their other busy schedule, were there to help and extend support during the study. Finally, and most importantly, I would like to thank my family for their blessings, wishes and support during internship and to my colleagues for their help in successful completion of this study.

Dr. Arpita Agrawal

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LIST OF ABBREVIATIONS

S. No	Symbol	Abbreviations	
1	CHC	Community Health Centre	
2	CQAC	Central Quality Supervisory Committee	
3	DALY	Disability-adjusted Life Year	
4	DH	District Hospital	
5	FFHI	Family Friendly Hospital Initiative	
6	GoI	Government of India	
7	ICU	Intensive Care Unit	
8	IOM	Institute of Medicine	
9	IPD	In-patient Department	
10	ISO	International Organization for Standardization	
11	IT	Information Technology	
12	KPI	Performing Indicators	
13	₂₀ oHFW	Ministry of Health and Family Welfare	
14	NABH	National Accreditation Board for Hospital and	
		Healthcare Providers	
15	NQAP	National Quality Assurance Program	
16	NQAS	National Quality Assurance Standards	
17	NRC	Nutrition Rehabilitation Centre	
18	OPD	Out-patient Department	
19	PHC	Primary Health Centre	
20	PPU	Post-partum Unit	
21	SDH	Sub-District Hospital	
22	SNCU	Sick New-born Care Unit	
23	UN	United Nations	

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CHAPTER 1: INTRODUCTION

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The Institute of Medicine (IOM) has defined Quality of care as "Degree to which healthcare services provided to individuals & patient populations to improve the desired health outcomes" (1). It includes a measure of scale, range of elements of care, includes targets (individual and population) for quality assurance as output, with desire for increase health outcomes, identifies speculative attribute of outcome which could be random or probability based but ultimately aims for the outcome by converting process of health care into health outcome. It assesses the individual patient's need and involves them in decision making and policymaking and undermines the barriers on performance of health care provider by using their technical, medical and scientific knowledge.

Desired outcome for healthcare provider are usually related to successful prevention or treatment of morbid conditions and averting deaths. While, for patient it is about clean & friendly atmosphere, speedy, low cost, lasting treatment without any harm/complication. Therefore, good quality services need to take into account both the health care providers' and the patient's perspective.

It's well known fact that poor quality of services leads to additional burden on health system by diminishing effectiveness of its interventions & increase the cost of care. To reduce the cost of poor quality Joseph Juran (2), an evangelist of Quality management, gave the famous trilogy of Quality planning, Quality control & Quality improvement.

In this regard "Indian Public Health Standard" were launched for District Hospital, Sub District

Hospitals, PHC, CHC and Sub centers in the month of January/ February, 2007 and have been set

as the benchmark for health facilities infrastructure planning and up-gradation but sooner it was

realized that in this process component was still missing. Further in this direction several approaches for certification/accreditation were being adopted by different states including NABH, ISO 9001:2008, FFHI (Family Friendly Hospital Initiative) and other initiatives in year 2008-2012. On evaluation by MoHFW, it was revealed that all these approaches have brought some positive changes but none of them is meeting requirements of Public Health.

Later, in 2013 MoHFW has developed "National Quality framework" which define their approach to Quality of care, its organizational arrangement & mandate in public healthcare institutions and it is named as 'Operational Guidelines for Quality Assurance for public health care facilities' and subsequently for CHC's, PHC's in 2014 and for UPHC's in 2016.

In 2015, Swatch Bharat Mission was launched by Hon. Prime Minister & to Complement it "Kayakalp" was launched by MoHFW. It focuses on promoting cleanliness and Hygiene in Public Health facilities, and also felicitates exemplary efforts of such facilities.

National Quality Assurance Standards have been developed keeping in the specific requirements for public health facilities as well global best practices. NQAS are designed for District Hospitals, CHCs, PHCs and Urban PHCs. Standards are made for service providers to assess quality of services for improvement and helps in certification of facilities. NQAS evaluation based on eight broad area of concern—Service Provision, Patient Rights, Inputs, Support Services, Clinical Care, Infection Control, Quality Management and Outcome. All standards are ISQUA accredited and meets global benchmarks in in terms of comprehensiveness, objectivity, austerity and evidence of development. Quality Certification program for public health facilities has been set in motion with desire of acknowledging the good preforming facilities as well improving credibility of public hospitals in community. Certification is provided against National Quality Assurance Standards

(NQAS) on meeting pre-determined criteria. Certified facilities are also provided financial incentives as recognition of their good work.

Kayakalp Award Scheme aspires to improving Cleanliness, Hygiene and waste management practices in Public Health Facilities. Facilities go through internal, peer and external assessment process against a predetermined criterion. The best facilities are given cash award as well as felicitation at state and National level

These programs are the key drivers for our citizens in carving a healthier and safer environment. The motives are generous; the goals are nourishing; but the process and outcomes are not a result of individual. It's a collaborative effort of local health agency and state health agency. States develops the system that measure the quality and capacity of health facilities but it's ultimately health facility that overcomes those gaps measured by state bodies and focus on improvement of services. Leadership at the local level is the key to success. State leadership provides resources, support, and coordination. These programs will bring in the accountability in the public heath leaders through standard setting and recognition of health facility through certification or award scheme. On the other hand, these programs have certain cons with them, since state authorities are under political pressure and sensitive with health officials avoid getting ahead without political commitment that could restrict budgetary decisions and limits flexibility. In addition, state officers have limited tenure and subjected to change with the change in ruling government parties. These programs require long-term investments and commitments to flourish and nourish themselves.

The emphasis is now on the evaluation of public health systems for delivery of quality assured services. National Quality Assurance Program (NQAP) and KAYAKALP are a dynamic mechanism of objectively assessing and facilitating the conversion of inputs/processes into the expected outputs and outcomes with quality ultimately borne out by the client satisfaction. This

study aims for how implementation of KAYAKALP initiative in the public health facilities have impacted on certification of facilities to National Quality Assurance Standards and comparative analysis between the two offshoot programme of Government of India (GoI) for health care facilities i.e. NQAP and KAYAKALP in terms of their assessment, coverage, accessibility and functionality of facilities.

CHAPTER 2: LITERATURE REVIEW

Ensure healthy lives and promote well-being for all at all ages' is the 3rd goal out of the 17 Sustainable Development Goals as ratified in UN summit on September 25, 2015. The goal specified 13 targets out of which target 8 focuses on 'Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all by 2030' (3).

In India around 5.2 million injuries occur due to medical negligence, resulting in around 3 million preventable deaths every year, of these, the major factors are medications and hospital-acquired infections. This makes medical errors one of the major causes of death. More than 43 million people suffered across the world each year due to medical mishaps. These errors accounts for nearly 23 million years of Disability Adjusted Life Years (DALY). For every 100 Hospitalization average 12.7 adverse event occurs (4). This provides evidence that adverse events due to medical negligence represent a major cause of morbidity and mortality. And how it is important to critically evaluate the quality and safety of the care provided to the person when he/she accesses health services.

A study in Uganda 1994, says that implementation of national quality assurance programme in Uganda was done to strengthen primary health care services. Within 18 months significant objective and subjective improvement in the quality of services was observed. Reduction in the maternal mortality rate, waiting time and increased patient satisfaction was ultimate quantitative outcomes. Along with this marked increased morale of health care providers, greater involvement of local governing bodies in the decision-making was few qualitative outcomes (11).

Another study conducted in Primary care clinics in Guinea and Kenya where quality improvement approach called COPE (Client-Oriented, Provider-Efficient services) was used for strengthening of health systems and supporting Integrated Management of Child Health (IMCI) efforts. This study said how all areas of quality can be improved by empowering health care providers to take decision by using above mentioned approach. This approach was a mix of shared responsibility and ownership amongst health care providers, reduction in the hierarchy and bureaucracy, raised morale and commitment of staff, skills enhancement of service provider and support from the supervisor which at the end leads to satisfactory enhanced changes in the quality of services provided to children and their caregiver (12).

Another such programme was adopted by Delhi Hospitals and dispensaries to overcome shortage of essential medicines by developing list of essential drugs, setting a centralized pooled procurement system and promoting activities which supports rational use of drugs. This resulted in supply of good quality drugs with saving of nearly 30% on the annual drug bill for the Government of Delhi, which in turn improved approximately up-to 80% availability of drugs. This model of Delhi has clearly stated that such programmes can be implemented and can lead to better patient satisfaction (13).

A study was conducted in Uganda to assess the effects of scaling up Integrated Management of Child Illness on the quality of care. It was found that only training health worker will not improve absolute levels of service quality, other factors like quality of training provided, effective supervision and monitoring of processes, availability of essential drugs and equipment, are also included and policy should be made in such manner that it can combine all this into a single program (14).

Considering the above facts, figures and the current situation of the country, 'National Health Mission (NHM)' was launched with the goal "to enhance the availability of and access to good health care for people, especially for vulnerable population. "National Health policy 2017 envisages as its goal the attainment of the highest possible level of health and well-being for all at all ages, through a preventive and promotive health care orientation in all developmental policies, and universal access to good quality health care services without anyone having to face financial hardship as a consequence" (5). In this process different programme was launched by National Health Mission namely; National Quality Assurance Program, Kayakalp, Swachh Swasth Sarvatra and recently LaQshya to provide a mix of evidence based clinical practice and quality of care.

Both the programmes i.e. Quality Assurance for public health care facilities and Kayakalp have certain standards on basis of which assessment of health facilities have been done followed by award of certification based on certain criteria approved by Central Quality Supervisory Committee. On review of those guidelines it was observed that Kayakalp standards are directly or indirectly embedded in the National Quality Assurance Standards (NQAS). So, it could be said that there can be some co-relation in both the programmes. Till date as of now no such studies have been done. This study aims to assess Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards as KAYAKALP is considered as sub-set of NAQP.

CHAPTER 3: OBJECTIVES

General Objective-

To assess Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards

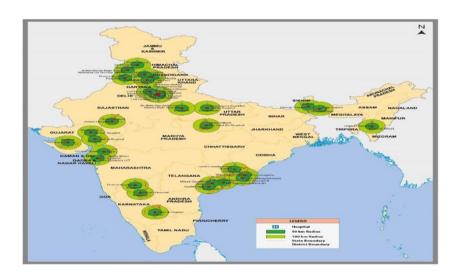
Specific Objective-

- To assess the co-relation between NQAP and KAYAKALP's external assessment score for National Quality Assurance Standard (NQAS) certified district hospitals.
- To analyze the coverage of certification of public health facilities under NQAP and KAYAKALP programme.
- To do a comparison of NQAS assessment score between quality certified district hospitals and deferred quality certified district hospital under NQAS.

CHAPTER 4: METHODOLOGY

Study Area: The study was carried out in public health facilities including all the district hospitals who have undergone for National Quality Assurance Program (NQAP) for the external assessment and all the Primary Health Centres (PHC), Community Health Centres/Sub-district Hospitals (SDH/CHC) and District Hospitals (DH) underwent for KAYAKALP external assessment.

Figure 4.1: District-wise map of India showing location of NQAS certified DHs



Study Period: The study was carried out in three phases during 05th February 2018- 05th May 2018. In the first phase of the study organization protocols, framework, work culture and programmes running under organization, was understood followed by approval of study proposal. In the second phase data tools and techniques was selected and data collection was done. In third phase data, analysis was done out to find out the areas of concern.

Figure 4.2: Phases of the study



Study Design: The Retrospective study involving quantitative method was designed to do assess impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards. Data collection involved a period of three years from May 2015 to April 2018.

Study Population: This study involves all the District Hospitals certified under National Quality Assurance Program (Annexure1) along with those DH who was deferred (Annexure2) under NQAS for not meeting their certification criteria (6) (Annexure3). It involved all the PHCs, CHC/SDH & DH scored more than 70% in their Kayakalp external assessment since last three years i.e. from May 2015 to April 2018 (Annexure4).

Sampling Technique: Purposive sampling technique was used because of small sample size, all district hospitals assessed for NQAS certification was included in the study.

Sample Size: Initially all the facilities certified under NQAS were planned to be included in the study. After considering paucity of time and scope of the study, only 32 district hospitals out of 91 certified facilities were considered for the study.

Table 4.1: Sample Size as per Specific Objectives

Specific	Variable	Sample Size
Objective		
1.	Certified DH under NQAS	32
2. No of facilities for coverage		
DH/SDH		1108
CHC		5624
PHC		25650
		(As per RHS 2017)
3.	Deferred/Declined DH under NQAS	06

Study Variables:

- External assessment score of the 32 NQAS certified district hospitals under NQAP and KAYAKALP.
- Total no of facilities certified under NQAS and no of facilities scored more than 70% in their external assessment under KAYAKALP from May 2015 to April 2018.
- 3. External assessment checklist of 06 declined/deferred district hospitals under NQAS.

Tools and Techniques:

Table 4.2: Instrument Design

S. No	Objective	Variables	Study	Tools and
			Population	Techniques
1	To assess the co-relation	External	32 Certified DHs	Record
	between NQAP and	assessment score	under NQAS	Review
	KAYAKALP's external	of the certified		
	assessment score for	DHs under		
	National Quality	NQAP and		
	Assurance Standard	KAYAKALP		
	(NQAS) certified			
	district hospitals and all			

	other Non-NQAS certified health facilities			
2	To analyze the coverage of certification of public health facilities under NQAP and KAYAKALP programme	External assessment score of the public health facilities under NQAP and KAYAKALP	No of health care facilities underwent NQAP & KAYAKALP	Record Review
3	To do a comparison of NQAS assessment score between quality certified district hospitals and deferred quality certified district hospital under NQAS	External assessment checklist for NQAS	06 Deferred/declined district hospitals under NQAS	Record Review

Limitations of The Study:

- As both the programmes are in their proliferation phase, sample size was small.
- Data collection was difficult as assessment checklist have to be collected from respective states of the facility.
- Confidentiality and Privacy issue within the organization regarding declaration of certification of the facility under NQAS.
- Only certified district hospitals were included because of time constraint

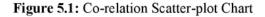
CHAPTER 5: DATA ANALYSIS

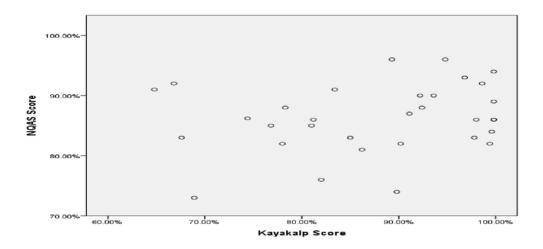
1. All the external assessment scores were checked, coded and entered in SPSS (Statistical Package for the Social Sciences) version 22. After entering scores Bivariate co-relation statistical tool was applied to find out co-relation between NQAP and KAYAKALP. In this objective district hospital's KAYAKALP score is **independent variable** while their NQAS score is **dependent variable**. So, here it was assumed that there is co-relation between these two programmes i.e. facilities certified under NQAS might be having good KAYAKALP score or KAYAKALP implementation supportNQAP. To check this null hypothesis was formulated which says there is no co-relation between these two programmes.

Table 5.1: Co-relation Analysis (Table showing external assessment score of DH under NQAS and KAYAKALP attached as Appendix 5)

Correlations

		NQAS Score	Kayakalp Score
NQAS Score	Pearson Correlation	1	.217
Sig. (2-tailed)			.234
	N	32	32
Kayakalp Score	Pearson Correlation	.217	1
	Sig. (2-tailed)	.234	
	N	32	32





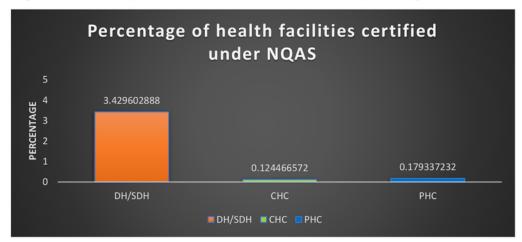
As seen in the Table no 5.1 and Figure 5.1, Pearson co-relation coefficient is 0.217, which shows that co-relation sign is positive but strength is weak means there is some co-relation between these two Quality of Care programme but of weak strength. But scatter-plot chart shows vague distribution of dots along the X-axis and Y-axis which says non-linear relationship between two variables means no co-relation. At this we can say that our null hypothesis is correct and there is no correlation between NQAP and KAYAKALP.

2. Data was collected and reviewed from organizations monitoring framework to include all the facilities that have been underwent NQAP and certified under the same. Out of total 166 applications received from the various states for National assessment only 105 was assessed against NQAS and only 91 facilities were certified against the same. Same procedure was followed for KAYAKALP programme and entered in MS Excel 2016 version, only those facilities were entered who have scored more than 70% in their external assessment score. All the facilities were included which fall from a period of April 2015 to April 2018.

Table 5.2: NQAS coverage

Type of the Facility	DH/SDH	СНС	РНС
Total	1108	5624	25650
NQAS Certified	38	7	46
Percentage of total	3.429603	0.124467	0.179337

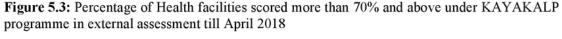
Figure 5.2: Percentage of Health facilities certified under NQAS till April 2018

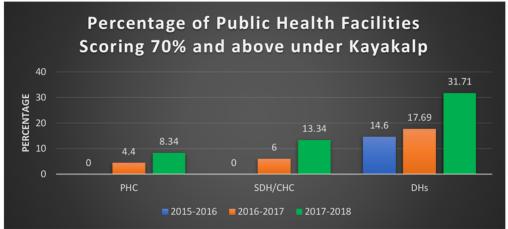


As seen in the table no 5.2 and figure no 5.2, out of total 1108 DH/SDH only 38 DHs (3.4% of total), out of 5624 CHCs only 7 CHCs (0.12% of total) and out of 25650 PHCs only 46 PHCs (0.17% of total) facilities have been certified under NQAS since the inception of programme in November 2014' till April 2014.

Table 5.3: Kayakalp Coverage

Kayakalp Award	PHC %	SDH/CHC %	DHs %
2015-2016	0	0	14.6
2016-2017	4.4	6	17.69
2017-2018	8.34	13.34	31.71





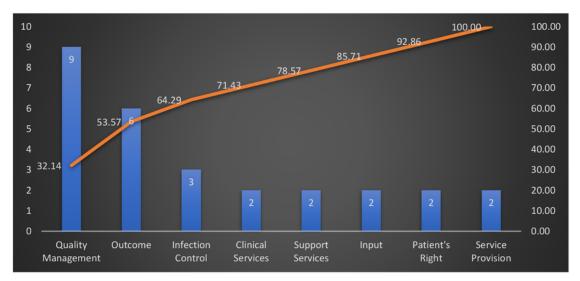
As depicted from the Table no 5.3 and figure no 5.3, trend pattern can be seen for three consecutive years from 2015 to 2018. Trend shows progressive increase in the coverage of facilities scored 70% and above in the external assessment under KAYAKALP programme since its inception. Involvement of PHC in the year 2018 up-to an extent of 8.34% of total PHCs, increase in the coverage for SDH/CHC from 0% to 13.34% of total, for DHs from 14.6% in 2015 to 31.71% in 2018.

3. To do a comparison of NQAS assessment score between quality certified district hospitals and deferred/declined quality certified district hospital under NQAS, Pareto analysis was done to apply 80/20 rule which underlines that in any process, 80% of problem or failure is just caused by 20% of few major factors, whereas remaining 20% of problem or failure is caused by 80% of many minor factors. The very purpose of Pareto Chart is to highlight the most important factors that are the reason for major cause of problem or failure. Pareto chart is made where bar graphs represented major area of concern in descending order of their impact and the cumulative total is shown by a line graph.

Table 5.4: Pareto analysis for certified and deferred/declined district hospitals

	Frequency	% Frequency	Cumulative Frequency
Quality Management	9	32.14	32.14
Outcome	6	21.43	53.57
ection Control	3	10.71	64.28
Service Provision	2	7.14	71.43
Patient's Right	2	7.14	78.57
Input	2	7.14	85.71
Support Services	2	7.14	92.85
Clinical Services	2	7.14	100.00
Total	28	100	

Figure 5.4: Graph showing pareto analysis for area of concern-wise



As we can interpret with the help of Pareto Analysis shown in table no 5.4 and Pareto Chart, our major area or factor responsible for deferred/declined certification of district hospitals are Quality Management (32.14%), Outcome (53.57%) and Infection Control (64.29%) which constitutes nearly 70% of cumulative frequency. It means if we can improve these areas of concern significant gap closure can be done to achieve Quality Certification for DHs. For further analysis of individual

Area of Concern, their National assessment checklists were analyzed and entered in MS Excel 2016. After entering scores for all district hospital's checklist, median was calculated separately for identifying individual standards for certified and deferred/declined district hospitals under NQAS to rule out the outliers.

Table 5.5: Median score for certified and deferred/declined district hospitals

	Non-Certified	Certified
	Median	Median
Overall Score	72%	86%
Service Provision	74%	87%
Patient's Right	78%	86%
Input	72%	85%
Support Services	79%	86%
Clinical Services	74%	85%
Infection Control	76%	90%
Quality Management	49%	77%
outcome	59%	85%
Department Wise Score		
Accident and Emergency	71%	84%
OPD	72%	82%
Labour Room	84%	89%
Maternity wards	80%	80%
PD	68%	90%
NRC	0%	83%
Pediatric ward	74%	0%
SNCU	69%	85%
ICU	0%	62%
peration Theatre	74%	89%
Post-partum Unit	64%	84%
Blood Bank	69%	83%
Laboratory	80%	82%
Radiology	68%	87%
Pharmacy and Stores	75%	80%
Auxillary Services	58%	88%
Mortuary	58%	75%
General Administration	74%	86%

Standard wise Score		
Standard A1.	69%	86%
Standard A2	77%	90%
Standard A3.	71%	85%
Standard A4	63%	81%
Standard A5.	87%	91%
Standard A6.	75%	86%
Standard B1.	74%	84%
Standard B2.	79%	85%
Standard B3.	86%	93%
Standard B4.	73%	85%
Standard B5.	91%	92%
Standard C1.	77%	83%
Standard C2.	64%	83%
Standard C3.	66%	80%
Standard C4.	68%	85%
Standard C5.	85%	94%
Standard C6.	73%	89%
Standard D1.	51%	79%
Standard D2.	74%	85%
Standard D3.	78%	86%
Standard D4.	84%	90%
Standard D5.	77%	88%
StandardD6	73%	75%
Standard D7.	79%	89%
Standard D8	90%	83%
Standard D9	100%	94%
Standard D10.	74%	85%
Standard D11.	87%	95%
Standard D12	70%	85%
Standard E1.	85%	90%
Standard E2.	83%	89%
Standard E3.	69%	79%
Standard E4.	79%	87%
Standard E5.	73%	92%
Standard E6.	57%	78%
Standard E7.	69%	83%
Standard E8.	79%	89%
Standard E9.	79%	91%
Standard E10.	50%	73%
Standard E11.	52%	69%

Standard E12.	73%	85%
Standard E13.	77%	92%
Standard E14	83%	96%
Standard E15.	89%	92%
Standard E16.	75%	92%
Standard E17	90%	97%
Standard E18	97%	97%
Standard E19	91%	94%
Standard E20	76%	85%
Standard E21	85%	100%
Standard E22	50%	99%
Standard E23	50%	51%
Standard F1.	60%	83%
Standard F2.	78%	91%
Standard F3.	80%	90%
Standard F4.	74%	86%
Standard F5.	73%	88%
Standard F6.	72%	89%
Standard G1	78%	93%
Standard G2	65%	78%
Standard G3.	50%	74%
Standard G4.	60%	84%
Standard G5.	12%	67%
Standard G6.	45%	81%
Standard G7.	39%	76%
Standard G8.	32%	58%
Standard H1.	68%	89%
Standard H2.	68%	83%
Standard H3.	51%	84%
Standard H4.	46%	81%

As we can see in the above table no 5.5, mean score written in the red font are our outlier values means these are the score which were not meeting the certification criteria as approved by Central Quality Supervisory Committee (CQAC) for district hospital to be certified under NQAS (Certification criteria attached as Annexure 3). Median score under certain standards namely; Standard G5 (12%), Standard G6 (45%), Standard G7 (39%), Standard G8 (32%) and Standard

H4 (46%) does not meet certification criteria which says standard score should be equal or above 50%. On the basis of these scores gap analysis was done, major gaps identified were as follows:

- These facilities do not map its key processes and don't seek to make them more efficient by reducing non-value adding activities and wastages
- The facilities have not established system of periodic review as internal assessment,
 medical & death audit and prescription audit
- The facilities have not defined and established Quality Policy & Quality Objectives.
- Facilities do not seek continually improvement by practicing Quality method and tools.
- The facilities do not measure Service Quality Indicators and endeavors to reach State/National benchmark.

In short, all the gaps identified were Quality Management and Outcome oriented i.e. related to process component of Donabedian model (7).

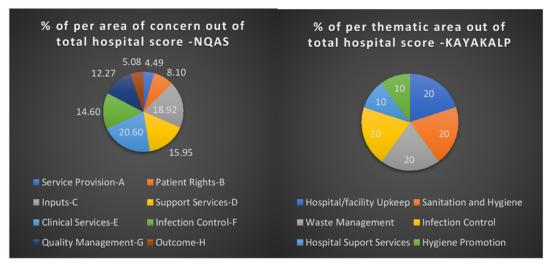
Figure 5.5: Donabedian's framework for Quality Improvement



CHAPTER 6: DISCUSSION

• Considering the facts and figures in the data analysis section, though there is weak correlation (.217) between two programmes namely; NQAS and KAYAKALP but it is not indicating that KAYAKALP (independent variable) supports NQAS (dependent variable). There could be many reasons for this but few can be summarized on the basis of data availability. One reason could be small sample size taken for the study, on basis of which it is imperative to say that both programmes do not support each other. Second analytic reason could be that as it is already known KAYAKALP is a smaller component of NQAP so when we did a comparative analysis of standards common to both the programs, following result came out of the analysis:

Figure 6.1: Graphical presentation for percentage of share by individual area of concern under NQAS & KAYAKALP respectively



As depicted from figure 6.1, in NQAS area named "Infection control" covers only 14.6% of total score card while in KAYAKALP this segment comprises of 20% of total pie-chart. On further digging deep into this following observation are seen:

Table 6.1: Percentage of standard in their respective area of concern under NQAS Checklist

		NC	QAS Score Card	
Kayakalp Thematic Area	Standard Name	Standard Score	% of total of respective area of concern	
Hospital Support Services	Standard A5	52	8.87	
Hospital upkeep	Standard D4	414	19.90	
Waste Management	Standard F6	460	24.15	
	Standard B1	308	29.16	
Hygiene Promotion	Standard D8	20	0.96	5.24
	Standard D11	178	8.55	5.24

As seen in the table 6.1, standard under NQAS are comparable to thematic area under KAYAKALP. Standard A5 (8.87%) of (4.49%) of Service Provision area of NQAS comparable to Hospital support services of KAYAKALP, similarly others like Standard D4 (19.9%) of (15.95%) of Support Services area is comparable to Hospital Upkeep of KAYAKALP, Standard F6 (24.15%) of (14.6%) of Infection Control is comparable to Waste management of KAYAKALP and Standard B1 (29.16% of 8.1% of Patient Right), Standard D8 & D11 (5.24% of 15.95% of Support Services) of NQAS are comparable to Hygiene Promotion of KAYAKALP. All earlier mentioned standards comprise little arc under NQAS pie chart as compared to similar standards under KAYAKALP, so this could also be an important reason for weak correlation of two programmes.

- Other possible reason could be with the sustainability of process variables under NQAS
 for long term as district hospital's KAYAKALP score has been recorded for current year
 (2017-18) while there NQAS score could be from last three years.
- As for the continued achievement of desirable outcomes, sustainability of the continued use of program activities and components are required. There is symbiotic relationship

- between sustainability, outcome and process. If one component is missing from this trilogy, it could have dis-balance the desired results of the programme.
- So, in order to achieve sustainable outcomes, continuous monitoring and evaluation of the already planned interventions under the program must be done along with generation of evidence-based intervention outcomes.
- When we analyze the data for coverage of all the public health facilities which has been certified under NQAS, only 3.4% DH/SDH, 0.12% CHC and 0.18% PHC have been certified till now, while significant achievement has been made under KAYAKALP since its inception. Till date 8.3% PHCs, 13.34% CHC/SDH and 31.74% DHs have scored equal to or more than 70% in their external assessment score for award. After analysis it was found that National assessment is a long process consist of several steps which on an average took almost 6 months to take place per facility. Every step requires lot of paper work starting from dispatch of letters for assessment to the empaneled external assessors till the dissemination of final report of certification of facility to the ministry and respective State, which incur increased cost. Other reasons might be:
- As both the programs are still in their proliferation phase, when National Health Mission launched these program, it need several arrangements to be made like training of the external assessors for assessment of facilities, sensitization of State Nodal officers, facility doctors and staff for this program, awareness of the program protocols and framework to the facilities, long-term impact of programs etc. All of this process need time for completion.

After doing gap analysis for deferred/declined district hospitals, area of concern was find
out. Under findings, two areas were find out namely; Quality Management (49%) and
Outcome (59%). On deep analysis of various checkpoints following points were identified:

Table 6.2: Gap analysis for Deferred/Declined District Hospitals under NQAS (8).

Area of Concern	Standard	Check-points 1
Quality	Standard G5 (12%)	 Process mapping not done for critical
Management (49%)		processes
		 Non-value adding activities are not
		identified
		 Processes are not rearranged as per
		quirement
	Standard G6 (45%)	 Internal assessment is not done at
		periodic interval
		 Medical audit is not performed
		 No prescription audits
		 No death audits
		 Non-compliance are not enumerated
		and recorded
		Corrective and preventive action not
		taken
	Standard G7 (39%)	 Quality objectives not defined
		 Staff is not aware of quality policy and
		objectives
		 Quality objectives are not monitored
		and reviewed periodically
	Standard G8 (32%)	 PDCA not done
		• 5S not done for work place
		management
		 No visual management for mistake
		proofing
		 No use of six sigma
		 No use of tools for quality
		improvement in services
Outcome (59%)	Standard H4 (46%)	 Facility does not measure Key
		Performing Indicators* on monthly
		basis

^{*} List of Key Performing Indicators attached as Annexure 6

CHAPTER 7: CONCLUSION

This study has done to assess Impact of implementation of 'KAYAKALP' initiative on Quality certification of public health facilities to National Quality Assurance Standards. Both the programs were launched by National Health Mission in order to provide quality services to the community. Significant findings have come out of this study, one of which states no correlation between aforesaid program despite of presence of some similar standards for assessment. Another interesting finding comes to notice that facility's National assessment is a long process but this process can be further streamlined to a short period by inculcating few management steps/technologies within the certification process in order to achieve greater number of NQAS certification for the public health facilities. Certain recommendation in this direction has been given by the researcher in the recommendation section. However, this area requires more in-depth analysis of various steps involved in the entire process in order to identify major loopholes/lacunas in the certification process. Once the facility prepares itself for NQAS certification, in-directly it prepares itself for KAYAKALP external assessment as well.

Earlier no such studies have been done in this field, so another step was taken by the researcher in order to find out the gaps or reasons responsible for deferred/declined quality certification of district hospitals under NQAS. Major area of concern namely; Quality Management and Outcome were identified in gap analysis, for which necessary action plan need to be prepared in order to fill those identified gaps and should focus on other hurdles too so that other assessment will not face same concerned gaps in National Assessment for certification.

As NQAS is one such program which takes corrective actions that are process oriented and that can be improved by applying basic tools of quality for continuous improvement once need assessment has been done appropriately. Another significance of this program is that it uses already

available resources to gener	rate evidence-based outcomes for better decision making in future. This
study opens new platform	for further research in this field in order to achieve more successful
outcomes under National Q	Quality Assurance Program.

CHAPTER 8: RECOMMENDATIONS

On the basis of facts and findings following actions can be planned:

- Use of IT enabled software in order to reduce paper work, financial expenditures and repetition of work for following activities-
- Receiving of documents from States' respective health facility for verification required for NQAS assessment.
- Standardized Performa for External Assessors with digital signature of respective authority for undertaking assessment.
- Use of Dashboard for finalization of External Assessors to reduce drop rate by assessors.
- Use of IT-based checklist for NQAS assessment so that direct transfer of files can be done on the same day of assessment rather than wasting paper in printing and time wastage in courier of those paper checklist.
- Capacity building of Health and Public Health Manager so that they can identify gaps
 during the internal assessment of the facility and can close them on the spot so that such
 gaps will not occur during National Assessment of the facility.
- Formulation of Quality policies and objectives as per respective department.
- Continuous monitoring and evaluation of Key Performing Indicators on monthly basis to generate evidence-based outcomes.
- Use of Lean Principal for continuous Quality Improvement after need assessment.
- Developing a model for sustainability of program activities and components in long run
 which should include two factors, one is Adaptation to the change in the program activities

and component with time and other is *Threshold* means to what extent or components of the program must be present for a program to be counted as sustained.

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ANNEXURE 1: List of Certified District Hospitals under National Quality Assurance Standards

State Name		Haryana	ana			Guj	Gujarat	
Facility Name H	Civil Hospital- Panchkula	Civil Hospital- Gurugram	Civil Hospital- Rohtak	B.K. Hospital Faridabad	General Hospital- Vyara(Tapi)	General Hospital- Mehsana	PKG Rajkot	General Hospital- Nadiad(Kheda)
Overall Score	%98	83%	%96	85%	%98	83%	84%	74%
Area of Concern								
Service Provision	84%	%06	85%	%88	87%	%98	71%	78%
Patient's Right	84%	85%	%66	81%	85%	85%	84%	73%
Input	%68	84%	92%	85%	84%	84%	77%	77%
Support Services	%88	84%	92%	83%	%98	82%	83%	71%
Clinical Services	85%	84%	95%	81%	%68	83%	74%	78%
Infection Control	93%	82%	%66	72%	%06	84%	83%	%92
Quality Management	%92	%92	95%	75%	74%	77%	74%	%92
Outcome	81%	%98	92%	85%	71%	83%	71%	88%
Department Wise Score								
Accident and Emergency	85%	78%	%66	%98	79%	82%	78%	74%
ОРО	%08	%98	%98	79%	74%	84%	81%	78%
Maternity wards	87%	87%	%86	85%	95%	%98	87%	72%
IPD	87%	79%	95%	88%	88%	81%	84%	%62
Labour Room	%96	87%	%66	91%	95%	82%	%06	74%
Pediatric ward	%06	73%	82%	%06	%68	79%	83%	80%
NRC	91%				%98	83%	%0	72%
SNCU	88%	72%	%66	85%	85%	79%	88%	71%
ICU	91%	73%			82%	%0	%0	72%

Blood Bank 86% 71% 92% 95% 88% 0% 88% 0% 85% Radiology 84% 98% 93% 81% 80% 82% 55% Laboratory 88% 98% 98% 93% 92% 92% 93% 93% 92% 93% 93% 92% 93%	Operation Theatre	87%	83%	%86	84%	%98	85%	85%	82%
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89% 90% 83% 87% 61% 61% 70% 88% 82% 93% 87% 74% 69% 87% 88% 90% 96% 96% 98% 79% 100% 88% 86% 81% 79% 77% 81% 79% 81% 74% 99% 79% 77% 84% 79% 81% 82% 94% 93% 86% 71% 84% 79% 87% 87% 87% 88% 94% 95% 86% 71% 84% 79% 87% 87% 88% 78% 95% 81% 84% 79% 81% <td< th=""><th>Standard A2</th><th>%26</th><th>%06</th><th>%86</th><th>87%</th><th>91%</th><th>%26</th><th>83%</th><th>%98</th></td<>	Standard A2	%26	%06	%86	87%	91%	%26	83%	%98
70% 88% 93% 87% 74% 69% 87% 88% 90% 96% 98% 79% 100% 88% 86% 81% 94% 88% 81% 81% 74% 99% 79% 77% 84% 79% 87% 89% 99% 86% 92% 92% 82% 88% 96% 71% 84% 79% 87% 88% 96% 71% 84% 79% 80% 88% 96% 71% 84% 79% 80% 88% 96% 71% 84% 78% 80% 88% 96% 81% 84% 78% 80% 86% 70% 99% 84% 77% 80% 80% 86% 92% 97% 81% 88% 96% 80% 80% 98% 92% 97% 81% 86% 84% 70% 80%	Standard A3.	%68	%06	83%	87%	83%	%92	61%	63%
87% 88% 90% 96% 96% 96% 96% 79% 79% 79% 79% 77% 88% 79% 77% 88% 71% 81% 79% 77% 84% 79% 77% 84% 79% 77% 84% 79% 77% 84% 79% 77% 82% 81% 82% <th>Standard A4</th> <th>%02</th> <th>88%</th> <th>82%</th> <th>93%</th> <th>87%</th> <th>74%</th> <th>%69</th> <th>%29</th>	Standard A4	%02	88%	82%	93%	87%	74%	%69	%29
100% 88% 86% 81% 94% 88% 81% <th>Standard A5.</th> <th>87%</th> <th>88%</th> <th>%06</th> <th>%96</th> <th>%96</th> <th>%86</th> <th>%62</th> <th>%96</th>	Standard A5.	87%	88%	%06	%96	%96	%86	%62	%96
81% 74% 99% 79% 77% 84% 79% 81% 89% 99% 86% 81% 66% 82% 94% 93% 96% 71% 84% 79% 87% 78% 88% 96% 71% 84% 79% 80% 78% 84% 99% 83% 96% 100% 91% 78% 86% 72% 83% 81% 84% 78% 81% 78% 81% 86% 70% 97% 81% 84% 75% 80% 80% 86% 70% 99% 84% 77% 75% 80% 70% 86% 92% 97% 81% 84% 70% 89% 89% 89% 89% 77% 89% 89% 77% 89% 89% 89% 89% 89% 89% 89% 77% 89% 89% 89% 89% 89% 89% 8	Standard A6.	100%	%88	%98	81%	94%	%88	81%	%98
87% 89% 86% 81% 66% 82% 94% 93% 96% 92% 97% 87% 88% 96% 71% 84% 79% 87% 78% 84% 96% 100% 91% 78% 86% 72% 83% 84% 78% 81% 78% 86% 70% 97% 81% 84% 75% 80% 80% 86% 70% 97% 81% 88% 84% 70% 90% 89% 89% 89% 77% 89% 89% 77% 89% 77% 89% 89% 77% 89% 89% 77% 89% 89% 77% 89% 89% 89% 77% 89% 89% 89% 89% 77% 89% 89% 89% 89% 77% 89% 89% 89% 89% 89% 89% 77% 89% 89% 89% 89% 89% <	Standard B1.	81%	74%	%66	79%	77%	84%	%62	%59
94% 93% 86% 92% 87% 87% 88% 96% 71% 84% 79% 80% 78% 84% 99% 83% 96% 100% 91% 86% 72% 83% 81% 84% 78% 81% 84% 70% 97% 81% 77% 80% 80% 86% 70% 99% 84% 77% 80% 80% 86% 85% 97% 81% 84% 70% 80% 98% 92% 97% 81% 89% 89% 77% 92% 89% 89% 89% 77% 89% 77%	Standard B2.	87%	89%	%66	%98	81%	%99	82%	61%
88% 96% 71% 84% 79% 80% 78% 84% 99% 83% 96% 100% 91% 86% 72% 83% 81% 84% 78% 78% 84% 70% 97% 81% 84% 75% 80% 86% 70% 97% 81% 88% 84% 70% 98% 92% 97% 91% 89% 89% 77% 92% 89% 87% 89% 77%	Standard B3.	94%	83%	%66	%98	95%	95%	87%	78%
78% 84% 99% 83% 96% 100% 91% 86% 72% 83% 81% 84% 78% 78% 84% 70% 97% 81% 84% 75% 81% 86% 70% 99% 84% 77% 80% 80% 86% 85% 97% 81% 84% 70% 70% 98% 92% 97% 91% 94% 96% 89% 77% 92% 89% 97% 87% 89% 89% 77%	Standard B4.	88%	%88	%96	71%	84%	%62	%08	77%
86% 72% 83% 81% 83% 84% 78% 78% 84% 70% 97% 81% 84% 78% 81% 86% 70% 99% 84% 77% 80% 80% 86% 85% 97% 81% 88% 84% 70% 98% 92% 97% 91% 94% 96% 89% 77% 92% 89% 97% 87% 89% 77% 77%	Standard B5.	78%	84%	%66	83%	%96	100%	91%	88%
84% 70% 97% 81% 84% 77% 75% 81% 86% 70% 99% 84% 77% 75% 80% 86% 85% 97% 81% 88% 84% 70% 98% 92% 97% 91% 94% 96% 89% 92% 89% 97% 87% 89% 77%	Standard C1.	%98	72%	83%	81%	83%	84%	78%	%69
86% 70% 99% 84% 77% 75% 80% 86% 85% 97% 81% 88% 84% 70% 98% 92% 97% 91% 94% 96% 89% 92% 89% 97% 87% 89% 77%	Standard C2.	84%	%02	%26	81%	84%	78%	81%	%09
86% 85% 97% 81% 88% 84% 70% 98% 92% 97% 91% 94% 96% 89% 92% 89% 97% 87% 89% 77%	Standard C3.	%98	70%	%66	84%	77%	75%	80%	82%
98% 92% 97% 91% 94% 96% 89% 89% 92% 89% 87% 89% 89% 77%	Standard C4.	%98	85%	%26	81%	%88	84%	20%	75%
92% 89% 87% 87% 89% 89% 77%	Standard C5.	%86	87%	%26	91%	94%	%96	%68	%26
	Standard C6.	95%	%68	%26	87%	%68	%68	77%	82%

92% 97% 96% 91% 85% 97% 96% 74% 98% 91% 91% 100% 18% 51% 77% 88% 77% 99% 100% 100% 100% 75% 100% 95% 84% 100% 95% 88% 100% 96% 86% 88% 100% 66% 71% 98% 90% 73% 95% 90% 70% 98% 80% 70% 98%	6 83% 83% 91% 91% 94% 94% 96% 96% 88% 88% 69% 69% 96% 96% 96% 96% 96% 96% 96% 96	90% 88% 91% 96% 89% 90% 69% 78% 100% 96%	85% 80% 81% 95% 79% 100% 74% 86% 92%	86% 82% 73% 85% 85% 80% 100% 95%	250% 70% 81% 71% 77% 85% 88% 64% 64% 91% 50%
74% 91% 51% 77% 100% 100% 92% 85% 85% 88% 71% 71% 73% 70%		88% 91% 96% 89% 90% 69% 78% 100% 95% 96%	86% 81% 95% 79% 100% 74% 94% 86% 92%	86% 82% 73% 85% 80% 100% 95% 88%	81% 71% 77% 85% 85% 88% 64% 91% 50%
91% 51% 77% 100% 100% 92% 85% 93% 88% 71% 71% 79% 70%		91% 96% 89% 90% 69% 100% 100% 95%	81% 95% 79% 100% 74% 94% 86% 92%	82% 73% 85% 80% 100% 95% 88%	71% 77% 85% 85% 88% 64% 91% 50%
51% 77% 100% 100% 92% 85% 93% 88% 71% 71% 79% 70%		96% 89% 90% 69% 78% 100% 95% 96%	95% 79% 90% 100% 74% 94% 86%	73% 85% 80% 100% 95% 88%	85% 85% 75% 88% 64% 91% 50%
100% 100% 100% 92% 85% 93% 88% 71% 71% 79% 70%		89% 90% 69% 78% 100% 100% 95%	79% 90% 100% 74% 94% 86% 92%	85% 80% 100% 95% 88%	85% 75% 88% 64% 91% 50%
100% 100% 100% 92% 85% 93% 71% 71% 73% 79%		90% 69% 78% 100% 100% 95%	90% 100% 74% 94% 86% 92%	80% 100% 95% 88%	75% 88% 64% 91% 50% 86%
100% 100% 92% 85% 93% 71% 71% 79% 70%		69% 78% 100% 100% 95% 96%	100% 74% 94% 86% 92%	100% 95% 88%	88% 64% 91% 50% 86%
100% 92% 85% 93% 88% 71% 73% 79% 70%		78% 100% 100% 95% 96%	74% 94% 86% 92%	%88 88%	64% 91% 50% 86%
92% 85% 93% 88% 71% 73% 70%		100% 100% 95% 96%	94% 86% 92%	%88	50%
85% 93% 88% 71% 73% 79% 70%		95%	86% 92%		86%
93% 88% 71% 73% 70%		%96	92%	52%	%98
71% 73% 79% 70%		%96	%86	81%	/000
71% 73% 79% 70%		7070	2/2/	%99	%78
73% 79% 70% 70%		04%	81%	64%	93%
79% 70%		%86	87%	%69	85%
%02	%06 %	100%	100%	75%	81%
%02	87%	82%	42%	48%	43%
0/0/	75%	93%	82%	%92	%89
%86 %06 %98	%88	88%	88%	71%	84%
82% 82% 93%	%92 %	%06	91%	85%	91%
77% 58% 100%	% 100%	95%	%0	20%	46%
80% 62% 100%	%69 %	61%	25%	75%	45%
84% 88% 93%	93%	%88	%62	82%	%69
85% 82% 96%	95%	%62	94%	61%	100%
97% 100% 100%	826 %	100%	%98	77%	100%
80% 87% 100%	%68 %	100%	84%	74%	100%

Standard E16.	%66	81%	100%	%98	88%	%96	78%	88%
Standard E17	%08	%86	100%	93%	100%	93%	80%	93%
Standard E18	%26	%06	100%	%66	%26	%26	100%	%26
Standard E19	100%	826	100%	94%	100%	100%	100%	88%
Standard E20	88%	77%	%86	%98	82%	88%	%69	%99
Standard E21	93%	100%	100%	83%	91%	100%	100%	100%
Standard E22	100%	100%	93%	83%	83%	100%	80%	100%
Standard E23	%69	%96	25%	%92	%96	52%	88%	88%
Standard F1.	87%	%92	92%	%59	81%	%68	73%	29%
Standard F2.	82%	82%	100%	75%	94%	%98	87%	91%
Standard F3.	93%	87%	100%	83%	%86	87%	82%	%62
Standard F4.	91%	77%	%96	72%	%98	82%	78%	%29
Standard F5.	%68	%62	%66	%29	88%	%//	83%	74%
Standard F6.	%26	%08	100%	72%	95%	%98	87%	%08
Standard G1	91%	%86	100%	94%	%68	%08	%56	%89
Standard G2	62%	72%	100%	%29	%69	78%	72%	%29
Standard G3.	%89	75%	%98	%89	%59	73%	%02	36%
Standard G4.	78%	83%	94%	87%	78%	95%	75%	84%
Standard G5.	95%	%69	%96	%29	%29	37%	72%	%95
Standard G6.	64%	77%	84%	%09	84%	86%	81%	%92
Standard G7.	%68	%59	100%	%02	64%	25%	46%	51%
Standard G8.	79%	51%	85%	61%	62%	43%	45%	52%
Standard H1.	77%	91%	100%	95%	%62	%06	79%	94%
Standard H2.	73%	80%	%66	84%	%99	83%	78%	82%
Standard H3.	%68	79%	%96	74%	%02	77%	25%	87%
Standard H4.	87%	77%	91%	80%	%99	78%	73%	%98

State Name			Punjab				And	Andhra Pradesh		
Facility Name	CH Amritsar (JBBM)	CH- Pathankot	CH Nawansha har	DH Faridkot	A.P. Jain Civil Hospital Rajpura, Patiala	DH- Vizianagra m	DH- Rajamahendrav aram	DH. Anakapalli	DH Eluru, West Godavari District	DH Machilipatnm , Krishna Distt
Overall Score	88%	87%	%06	85%	95%	%98	93%	83%	94%	%68
Area of Concern										
Service Provision	82%	93%	88%	84%	%88	91%	94%	81%	93%	%06
Patient's Right	%86	%56	95%	%68	%96	84%	%26	85%	%56	88%
Input	%68	85%	%06	87%	95%	%98	93%	85%	93%	%98
Support Services	%98	%06	93%	87%	91%	%06	%36	%68	%56	%68
Clinical Services	%98	85%	93%	85%	93%	88%	93%	85%	93%	84%
Infection Control	%86	%06	94%	85%	%86	91%	%96	%88	%/6	95%
Quality Management	77%	75%	79%	%62	87%	71%	84%	%89	%06	83%
Outcome	%06	85%	81%	85%	91%	93%	%98	81%	95%	%68
Department Wise Score										
Accident and Emergency	81%	91%	85%	%68	91%	85%	%06	83%	%86	84%
ОРО	%96	91%	91%	86%	95%	83%	87%	84%	%68	%68
Maternity wards	%9/	%06	%06	87%	%96	94%	93%	95%	876	94%
IPD	91%	78%	95%	71%	886	77%	82%	79%	%26	%68
Labour Room	%82	95%	95%	88%	84%	826	%96	%06	94%	%68
Pediatric ward	83%	75%	91%	%98	%0	%98	94%	%0	95%	91%
NRC	%0	%0	%0	%0	%0	91%	%0	%0	%96	%0
SNCU	85%	85%	%0	%0	%0	%66	826	%0	94%	83%
ICU	%0	%0	%0	%0	%0	25%	93%	%0	%86	84%
Operation Theatre	89%	88%	95%	89%	95%	84%	%96	88%	%68	%98

Blood Bank	94%	85%	%0	%0	82%	81%	97%	75%	91%	%26
Radiology	84%	89%	%06	91%	%68	73%	80%	77%	%06	95%
Laboratory	94%	81%	%62	82%	87%	94%	91%	78%	%68	84%
Pharmacy and Stores	%26	87%	91%	75%	%06	83%	88%	%98	%06	%26
Auxillary Services	%68	80%	%98	74%	%88	95%	%06	%62	%86	%98
Post-partum Unit	97%	93%	%06	%68	%96	91%	94%	93%	%56	83%
Mortuary	84%	91%	%68	%0	%88	75%	93%	%08	%08	82%
General Administration	89%	86%	93%	%68	%88	94%	95%	78%	%86	%98
Standard-wise Score										
Standard A1.	91%	%0	%88	%08	95%	87%	93%	72%	95%	95%
Standard A2	%88	%0	93%	%92	%88	%96	97%	87%	%26	%68
Standard A3.	%98	%0	72%	%92	85%	82%	91%	%88	91%	%96
Standard A4	%96	%0	95%	%08	83%	93%	91%	%62	%88	87%
Standard A5.	%86	%0	%06	%08	%96	%96	%86	%96	%86	%06
Standard A6.	94%	%0	%98	75%	81%	94%	94%	75%	94%	81%
Standard B1.	%98	%0	95%	%92	%96	%02	%96	72%	94%	%98
Standard B2.	94%	%0	%06	85%	94%	%98	91%	82%	95%	%88
Standard B3.	93%	%0	%96	%98	94%	%88	%66	%96	%96	%96
Standard B4.	85%	%0	%86	%08	%86	85%	866	%29	%06	78%
Standard B5.	87%	%0	%88	%62	%66	100%	%66	%66	%66	95%
Standard C1.	82%	%0	85%	72%	94%	91%	94%	82%	%06	85%
Standard C2.	%02	%0	%88	78%	%88	%08	85%	83%	%88	%98
Standard C3.	%92	%0	%88	%08	%26	%02	%88	25%	%08	%06
Standard C4.	87%	%0	%06	%62	87%	%68	%96	81%	94%	82%
Standard C5.	88%	%0	826	85%	%26	%06	97%	82%	%66	85%

Standard C6.	88%	%0	88%	79%	%56	93%	98%	89%	%96	87%
Standard D1.	73%	%0	%68	%89	82%	%92	89%	76%	%68	91%
Standard D2.	%62	%0	91%	75%	95%	87%	92%	85%	%56	81%
Standard D3.	86%	%0	91%	78%	93%	95%	95%	91%	%96	88%
Standard D4.	%98	%0	%26	82%	84%	91%	98%	%86	83%	93%
Standard D5.	78%	%0	%98	83%	83%	94%	98%	%06	%66	94%
StandardD6	50%	%0	88%	54%	78%	95%	100%	70%	%86	%92
Standard D7.	86%	%0	82%	74%	826	82%	90%	92%	%26	88%
Standard D8	20%	%0	100%	100%	%06	85%	100%	%02	100%	%59
Standard D9	100%	%0	100%	100%	81%	100%	100%	88%	100%	100%
Standard D10.	83%	%0	%68	82%	93%	%62	88%	79%	%26	%92
Standard D11.	%06	%0	%26	83%	%66	%56	96%	%96	%86	%96
Standard D12	77%	%0	93%	81%	100%	94%	88%	95%	%96	%06
Standard E1.	84%	%0	94%	83%	%86	%76	100%	94%	%86	85%
Standard E2.	86%	%0	94%	78%	82%	93%	98%	95%	100%	%68
Standard E3.	72%	%0	100%	%29	83%	93%	91%	100%	%06	87%
Standard E4.	71%	%0	%66	74%	%06	91%	866	%06	82%	%98
Standard E5.	71%	%0	94%	%59	100%	94%	98%	100%	%86	%88
Standard E6.	%9/	%0	95%	%89	84%	93%	92%	%69	%86	%06
Standard E7.	75%	%0	%68	72%	%68	85%	95%	%68	%96	83%
Standard E8.	%98	%0	91%	77%	%06	82%	%66	83%	%86	82%
Standard E9.	80%	%0	%66	%92	100%	91%	866	91%	100%	83%
Standard E10.	100%	%0	%0	20%	%0	15%	%96	%0	100%	%79
Standard E11.	%89	%0	85%	72%	%62	61%	67%	97%	83%	87%
Standard E12.	77%	%0	85%	88%	93%	83%	96%	88%	87%	93%
Standard E13.	85%	%0	%96	64%	%66	%96	88%	%96	%86	87%
Standard E14	93%	%0	100%	87%	100%	93%	100%	%96	%26	21%
Standard E15.	95%	%0	%92	%56	%56	%68	100%	87%	%26	84%

Standard E16.	85%	%0	%86	73%	100%	95%	100%	%08	95%	85%
Standard E17	%76	%0	91%	%86	100%	100%	%86	%86	%26	%86
Standard E18	95%	%0	94%	93%	%26	100%	100%	100%	100%	72%
Standard E19	91%	%0	91%	91%	%88	88%	100%	100%	94%	91%
Standard E20	84%	%0	%66	83%	%06	%98	95%	100%	100%	%98
Standard E21	%96	%0	100%	100%	100%	100%	100%	%96	91%	100%
Standard E22	100%	%0	73%	100%	100%	100%	100%	%06	100%	100%
Standard E23	100%	%0	87%	51%	95%	95%	51%	%05	51%	51%
Standard F1.	%92	%0	%56	72%	%98	%98	84%	81%	%96	88%
Standard F2.	91%	%0	100%	%62	%86	%06	%86	81%	%26	93%
Standard F3.	%68	%0	100%	77%	886	%96	%86	%06	%86	%06
Standard F4.	%58	%0	91%	%02	95%	95%	%96	%88	%96	88%
Standard F5.	%88	%0	93%	71%	%88	95%	%96	%18	%96	93%
Standard F6.	91%	%0	%68	78%	%96	%68	%66	%68	%86	94%
Standard G1	84%	%0	%06	91%	100%	%86	100%	%29	100%	95%
Standard G2	%69	%0	%86	%09	%06	81%	84%	20%	%86	93%
Standard G3.	83%	%0	%69	74%	85%	74%	94%	%99	94%	%98
Standard G4.	81%	%0	84%	%9/	94%	75%	93%	84%	82%	88%
Standard G5.	20%	%0	%92	61%	%89	36%	75%	78%	83%	%62
Standard G6.	71%	%0	73%	%02	83%	%98	95%	%89	%98	83%
Standard G7.	%69	%0	%98	75%	93%	78%	84%	%29	%9/	78%
Standard G8.	54%	%0	73%	54%	75%	31%	41%	51%	81%	%09
Standard H1.	87%	%0	78%	87%	%56	%96	95%	%98	%96	93%
Standard H2.	81%	%0	81%	74%	82%	%96	88%	%08	%96	%88
Standard H3.	83%	%0	82%	73%	%88	91%	80%	78%	%98	85%
Standard H4.	%88	%0	81%	61%	82%	87%	81%	%62	84%	%68

State Name	West Bengal	gal	Delhi		Karnataka		Mizoram
Facility Name	MJN Hospital, Coochbhear	Siliguri DH	Pt. Madan Mohan Malivaya Hospital	District Hospital- Koppal	District Hospital- Tumakuru	District Hospital- Vijayapura	District Hospital- Aizwal (West)
Overall Score	73%	88%	91%	92%	%06	%98	81%
Area of Concern							
Service Provision	85%	84%	78%	94%	95%	87%	87%
Patient's Right	80%	86%	95%	95%	%98	85%	84%
Input	82%	82%	%68	95%	83%	%98	82%
Support Services	77%	86%	95%	91%	82%	83%	80%
Clinical Services	78%	86%	%06	94%	91%	85%	83%
Infection Control	80%	89%	95%	95%	93%	886	85%
Quality Management	29%	82%	95%	84%	91%	83%	72%
Outcome	10%	91%	91%	%06	82%	84%	%92
Department Wise Score							
Accident and Emergency	%92	87%	%86	%0	%0	%0	72%
OPD	%29	%08	%68	%0	%0	%0	75%
Maternity wards	75%	93%	%88	91%	82%	83%	83%
IPD	71%	%9/	%88	%0	%0	%0	77%
Labour Room	%9/	94%	%68	%86	83%	85%	83%
Pediatric ward	%02	80%	95%	87%	%56	81%	%92
NRC	%0	%0	%0	%0	%0	%0	%0
SNCU	77%	97%	%06	91%	%56	%06	81%
ICN	%9/	%06	%0	95%	87%	83%	82%
Operation Theatre	75%	94%	91%	93%	95%	%68	%98
Blood Bank	70%	97%	%0	80%	%26	94%	91%
Radiology	75%	82%	87%	%0	%0	%0	83%
Laboratory	29%	%92	%26	%0	%0	%0	82%

Pharmacy and Stores	%98	87%	%06	%0	%0	%0	%98
Auxillary Services	73%	%68	92%	%0	%0	%0	%88
Post-partum Unit	71%	94%	88%	94%	77%	%0	80%
Mortuary	%0	%0	%0	%0	%0	%0	83%
General Administration	72%	%98	%28	%0	%0	%0	82%
Standard-wise Score							
Standard A1.	%06	88%	%92	94%	%26	%98	91%
Standard A2	%98	85%	81%	%26	%66	85%	%98
Standard A3.	%68	83%	%68	83%	64%	%88	93%
Standard A4	%59	71%	%99	82%	77%	29%	75%
Standard A5.	%86	87%	%06	%0	%0	%0	95%
Standard A6.	%5/	94%	%62	100%	100%	75%	100%
Standard B1.	64%	84%	83%	84%	82%	78%	88%
Standard B2.	%06	%02	85%	81%	%69	82%	%62
Standard B3.	87%	%68	%96	%86	88%	85%	94%
Standard B4.	%92	94%	%86	%96	84%	78%	82%
Standard B5.	83%	94%	95%	100%	%66	95%	61%
Standard C1.	84%	75%	82%	87%	83%	81%	74%
Standard C2.	84%	77%	85%	94%	87%	78%	73%
Standard C3.	%62	86%	%26	%98	21%	73%	%92
Standard C4.	83%	85%	88%	94%	93%	83%	%98
Standard C5.	81%	91%	%86	%86	94%	%26	77%
Standard C6.	%88	83%	95%	%26	85%	91%	95%
Standard D1.	93%	85%	88%	826	%26	29%	%09
Standard D2.	%92	85%	91%	%98	95%	82%	93%
Standard D3.	%92	%88	%26	81%	91%	87%	82%
Standard D4.	%88	%98	82%	826	%86	%66	%68
Standard D5.	77%	82%	83%	%26	100%	83%	%98

StandardD6	46%	72%	100%	80%	100%	20%	%89
Standard D7.	72%	93%	%96	%26	94%	83%	886
Standard D8	%02	25%	%06	%0	%0	%0	85%
Standard D9	20%	100%	88%	%0	%0	%0	81%
Standard D10.	%62	%62	86%	100%	100%	100%	83%
Standard D11.	91%	%06	95%	100%	100%	100%	%68
Standard D12	%06	77%	82%	81%	100%	22%	84%
Standard E1.	84%	%68	91%	100%	%26	%66	%56
Standard E2.	%88	88%	92%	%26	%98	82%	94%
Standard E3.	%09	79%	77%	87%	100%	84%	%69
Standard E4.	85%	88%	%06	%96	856	81%	85%
Standard E5.	%96	95%	85%	886	100%	20%	886
Standard E6.	%89	%06	80%	100%	54%	52%	61%
Standard E7.	%06	84%	82%	886	85%	80%	73%
Standard E8.	%68	%06	94%	%66	886	94%	%56
Standard E9.	73%	%06	95%	%86	%26	%88	%88
Standard E10.	%69	%96	100%	100%	88%	54%	100%
Standard E11.	47%	73%	93%	%89	%86	54%	72%
Standard E12.	%89	84%	85%	77%	80%	100%	91%
Standard E13.	78%	88%	96%	93%	96%	%96	94%
Standard E14	82%	100%	96%	100%	100%	95%	886
Standard E15.	100%	100%	86%	100%	%88	%96	95%
Standard E16.	75%	94%	866	95%	%96	94%	82%
Standard E17	82%	97%	80%	100%	100%	100%	%56
Standard E18	%98	100%	92%	%66	88%	%66	%66
Standard E19	%88	%88	75%	100%	100%	84%	94%
Standard E20	%29	84%	100%	75%	100%	%89	%//
Standard E21	%96	%96	%08	100%	74%	%0	87%

Standard E22	93%	%26	%06	%0	%0	%0	100%
Standard E23	48%	51%	%29	%0	%0	%0	49%
Standard F1.	97	88%	95%	%06	100%	%88	64%
Standard F2.	81%	%06	%86	91%	95%	%86	%68
Standard F3.	%98	94%	%86	%96	87%	94%	%86
Standard F4.	85%	%68	%06	100%	95%	%88	81%
Standard F5.	%92	%68	95%	94%	94%	91%	95%
Standard F6.	%98	88%	%26	%96	%56	%26	85%
Standard G1	25%	94%	100%	100%	100%	100%	826
Standard G2	43%	74%	100%	95%	100%	100%	82%
Standard G3.	49%	81%	%68	%56	100%	85%	%89
Standard G4.	14%	%06	95%	84%	%68	91%	75%
Standard G5.	42%	%29	100%	71%	95%	%69	61%
Standard G6.	44%	81%	82%	95%	%96	95%	71%
Standard G7.	73%	%08	%68	%62	100%	%69	%29
Standard G8.	%6	28%	81%	72%	79%	25%	61%
Standard H1.	%9	%96	%86	95%	%92	94%	84%
Standard H2.	13%	84%	94%	91%	%62	%06	%02
Standard H3.	10%	91%	85%	%98	85%	73%	%02
Standard H4.	11%	94%	84%	94%	94%	75%	79%

State Name	Madhya Pradesh	Rajasthan	Odisha		Uttar Pradesh		Dadar & Nagar Haveli
Facility Name	Sardar Vallabh Bhai Patel Jila Hospital - Satna	DH Rajsamand	District Headquarters Hospital- Koraput	Veerangana Avantibai Mahila Hospital- Lucknow	Dr. Bhim Rao Ambedkar District Male Hospital- Etawah	District Women Hospital - Ghaziabad	Shri. Vinoba Bhave Civil Hospital- Silvassa
Overall Score	%92	82%	91%	85%	82%	86.20%	%96
Area of Concern	200	7000	704	7007	71.0	/000	/000
Service Provision	%/8	83%	74%	94.10%	%5/	88.69%	%86
Input	76%	82%	77%	80.60%	85%	83.31%	94%
Support Services	%9/	84%	79%	82.60%	83%	85.48%	%96
Clinical Services	78%	84%	%92	81.50%	81%	87.48%	%66
Infection Control	73%	88%	75%	84.50%	87%	86.56%	%26
Quality Management	74%	20%	71%	71.90%	%92	83.10%	93%
Outcome	%69	72%	71%	75.60%	85%	93.04%	93%
Department Wise Score							
Accident and Emergency	75%	84%	%0	87.30%	%62	80%	%86
ОРО	93%	80%	%0	73.60%	77%	84.30%	%56
Maternity wards	74%	81%	95%	75.90%	%0	90.20%	%26
Odl	62%	87%	%0	%0	%88	0%	95%
Labour Room	81%	%68	94%	%92	%0	78%	%86
Pediatric ward	%59	80%	95%	%0	%0	0%	%56
NRC	87%	87%	95%	%0	83%	0%	%0
SNCU	94%	20%	93%	83.40%	%0	96.50%	%26
ICO	%0	%08	%0	%0	%0	%0	%26

Operation Theatre	81%	84%	93%	%06	%06	87%	%26
Blood Bank	%08	84%	%68	%0	80%	%0	%0
Radiology	73%	83%	88%	77.50%	%06	%0	94%
Laboratory	%69	82%	88%	83.70%	71%	78%	%26
Pharmacy and Stores	%98	%92	%0	%08	%06	82.90%	93%
Auxillary Services	64%	%92	%0	74.40%	85%	76.80%	89%
Post-partum Unit	88%	81%	%0	88.70%	%0	93%	%0
Mortuary	%69	78%	%0	%0	%0	%0	%96
General Administration	%92	%92	%98	86.20%	80%	87.80%	94%
Standard-wise Score							
Standard A1.	85%	%62	%59	%66	81%	80.43%	%06
Standard A2	%26	87%	%98	%96	100%	94%	84%
Standard A3.	%98	84%	77%	81%	75%	73.81%	%96
Standard A4	79%	81%	%99	%96	61%	95.83%	%66
Standard A5.	85%	94%	64%	%26	75%	100%	%96
Standard A6.	88%	75%	%69	75%	88%	75%	94%
Standard B1.	%9/	84%	%92	94%	83%	86.52%	86%
Standard B2.	71%	%92	71%	%06	79%	91.13%	77%
Standard B3.	85%	88%	75%	%96	91%	95.10%	%68
Standard B4.	72%	%06	77%	91%	92%	86.46%	86%
Standard B5.	88%	%96	%98	%56	87%	94.53%	91%
Standard C1.	75%	83%	82%	87%	85%	77.85%	81%
Standard C2.	%92	74%	71%	83%	85%	84.25%	84%
Standard C3.	78%	%89	73%	%02	84%	86.15%	90%
Standard C4.	75%	75%	75%	%62	79%	80.12%	91%
Standard C5.	93%	%26	74%	82%	93%	97.27%	94%
Standard C6.	%08	95%	%92	73%	82%	82.35%	%68

80%	87%	%29	93%	94%	100%	%26
%29	%26	22%	20%	%0	100%	%26
%26	826	100%	81%	%0	81.94%	100%
94%	826	%26	%68	%0	78.13%	100%
72%	80%	%89	81%	%89	96.15%	88%
100%	100%	20%	100%	%0	100%	100%
%02	100%	20%	100%	%0	100%	100%
20%	20%	51%	47%	20%	88.89%	100%
%02	%59	53%	82%	85%	80.56%	%06
78%	92%	78%	85%	94%	91.67%	%88
%62	87%	%92	%06	%68	91.67%	91%
%92	%06	75%	77%	%92	85.98%	%98
64%	%88	74%	77%	81%	86.24%	%68
73%	93%	%92	83%	85%	92.05%	87%
94%	78%	78%	78%	85%	84.62%	826
%09	47%	72%	87%	95%	78.57%	%06
%29	%89	%29	94%	%08	72.83%	91%
84%	48%	75%	%69	83%	88.91%	88%
61%	1%	20%	81%	29%	74.24%	%69
74%	39%	72%	%99	%68	85.69%	%98
%92	11%	79%	%29	75%	86.11%	%68
42%	2%	21%	%02	43%	77.59%	80%
84%	81%	%89	%59	83%	95.06%	%98
%89	54%	75%	84%	87%	%06	88%
%89	48%	%89	85%	%98	92.76%	%06
%09	49%	%69	63%	84%	94 44%	81%

ANNEXURE 2: List of Deferred/Declined District Hospitals Under National Quality Assurance Standards

State Name		Andhra P	radesh		Gujarat	Bihar	Uttar Pradesh
Facility Name		АН	DH	АН	DH	Sadar Hospital,	DWH
	AH Gudur	Chirala	Tenali	Hindupur	Amreli	Motihari	Lalitpur
Overall Score	57%	75%	83%	81%	70%	62%	71.70%
Area of Concern							
Service Provision	65%	71%	79%	74%	78%	66%	85.60%
Patient's Right	61%	86%	88%	78%	75%	67%	86.80%
Input	55%	72%	86%	72%	74%	65%	76.50%
Support Services	58%	83%	89%	81%	73%	63%	78.90%
Clinical Services	64%	75%	83%	75%	74%	66%	70.90%
Infection Control	62%	76%	89%	77%	68%	60%	85.50%
Quality							
Management	38%	63%	69%	62%	43%	49%	37.50%
Outcome	59%	74%	75%	75%	41%	55%	42.50%
Department Wise Score							
Accident and							
Emergency	66%	82%	80%	79%	70%	69%	70.90%
OPD	53%	72%	77%	75%	63%	66%	72.60%
Labour Room	77%	84%	92%	88%	75%	86%	77.50%
Maternity wards	65%	80%	89%	86%	77%	82%	71.30%
IPD	50%	75%	86%	82%	68%	67%	0.00%
NRC	0%	0%	0%	0%	78%	0%	0.00%
Pediatric ward	63%	75%	75%	91%	74%	0%	0.00%
SNCU	0%	0%	89%	0%	69%	69%	74.80%
ICU	0%	0%	0%	0%	0%	0%	0.00%
Operation							
Theatre	60%	79%	88%	75%	68%	74%	72.70%
Post-partum Unit	51%	63%	91%	82%	70%	0%	64.40%
Blood Bank	69%	80%	85%	88%	0%	0%	0.00%
Laboratory	56%	81%	87%	91%	80%	44%	71.30%
Radiology	48%	79%	89%	79%	68%	0%	63.50%
Pharmacy and							
Stores	59%	81%	82%	83%	75%	0%	71.50%
Auxillary Services	15%	39%	78%	64%	58%	0%	70.70%
Mortuary	37%	62%	58%	0%	72%	70%	0.00%
General							
Administration	63%	78%	77%	74%	60%	68%	75.10%
Standard-wise Score							
Standard A1.	63%	70%	77%	69%	69%	66%	78%
Standard A2	74%	66%	84%	77%	87%	67%	93.10%
Standard A3.	59%	91%	93%	76%	71%	56%	70.80%

ANNEXURE 2: List of Deferred/Declined District Hospitals Under National Quality Assurance Standards

State Name		Andhra P	radesh		Gujarat	Bihar	Uttar Pradesh
		7			Cujarac	Sadar	
Facility Name		АН	DH	AH	DH	Hospital,	DWH
r demey rearre	AH Gudur	Chirala	Tenali	Hindupur	Amreli	Motihari	Lalitpur
Standard A4	57%	56%	61%	76%	75%	63%	91.60%
Standard A5.	70%	96%	96%	77%	98%	77%	86.80%
Standard A6.	69%	69%	75%	75%	81%	88%	87.50%
Standard B1.	40%	82%	86%	74%	62%	63%	82.90%
Standard B2.	64%	79%	76%	82%	80%	67%	85.90%
Standard B3.	67%	92%	90%	86%	82%	72%	90.90%
Standard B4.	59%	82%	90%	68%	73%	67%	83%
Standard B5.	91%	99%	99%	82%	87%	69%	94.10%
Standard C1.	57%	80%	87%	70%	85%	71%	76.50%
Standard C2.	56%	64%	79%	68%	54%	60%	80.60%
Standard C3.	29%	73%	83%	55%	65%	66%	87.10%
Standard C4.	62%	68%	85%	68%	68%	61%	68.80%
Standard C5.	83%	94%	94%	84%	85%	74%	85.80%
Standard C6.	56%	73%	89%	77%	82%	62%	71.50%
Standard D1.	49%	87%	93%	82%	45%	33%	50.60%
Standard D2.	46%	73%	83%	82%	74%	60%	79.40%
Standard D3.	68%	87%	89%	78%	72%	70%	82.60%
Standard D4.	63%	86%	92%	84%	74%	64%	88.20%
Standard D5.	61%	64%	88%	83%	77%	78%	77.30%
StandardD6	41%	81%	73%	68%	84%	49%	72.70%
Standard D7.	59%	81%	86%	81%	71%	70%	78.70%
Standard D8	90%	100%	80%	90%	60%	90%	60%
Standard D9	88%	100%	100%	100%	100%	100%	100%
Standard D10.	28%	79%	79%	67%	74%	64%	78.50%
Standard D11.	71%	91%	97%	84%	89%	76%	86.90%
Standard D12	67%	96%	100%	73%	69%	44%	70%
Standard E1.	79%	93%	85%	80%	90%	74%	85.80%
Standard E2.	76%	88%	95%	83%	85%	62%	81.00%
Standard E3.	68%	80%	83%	76%	69%	65%	58.20%
Standard E4.	67%	79%	80%	83%	80%	63%	66.90%
Standard E5.	67%	50%	90%	75%	73%	65%	84.30%
Standard E6.	62%	37%	72%	57%	46%	63%	45.80%
Standard E7.	69%	85%	78%	70%	64%	66%	68.20%
Standard E8.	57%	88%	87%	79%	85%	63%	60.80%
Standard E9.	62%	81%	89%	79%	80%	66%	67.80%
Standard E10.	NA	NA	50%	50%	50%	46%	50%
Standard E11.	35%	39%	71%	51%	52%	63%	74.10%
Standard E12.	56%	85%	85%	90%	73%	47%	68.60%
Standard E13.	67%	90%	83%	77%	72%	62%	78.70%
Standard E14	46%	64%	86%	67%	83%	83%	83.30%
Standard E15.	71%	82%	100%	95%	89%	84%	89.20%

ANNEXURE 2: List of Deferred/Declined District Hospitals Under National Quality Assurance Standards

State Name		Andhra P	radesh		Gujarat	Bihar	Uttar Pradesh
Facility Name		АН	DH	АН	DH	Sadar Hospital,	DWH
	AH Gudur	Chirala	Tenali	Hindupur	Amreli	Motihari	Lalitpur
Standard E16.	68%	65%	88%	74%	76%	75%	77.10%
Standard E17	95%	83%	97%	93%	88%	90%	85.70%
Standard E18	89%	100%	100%	100%	97%	92%	86.10%
Standard E19	94%	91%	100%	88%	88%	100%	87.50%
Standard E20	63%	76%	76%	74%	90%	79%	94.20%
Standard E21	33%	57%	100%	87%	93%	50%	84.70%
Standard E22	23%	0%	90%	70%	20%	83%	50%
Standard E23	50%	48%	52%	52%	52%	49%	44.40%
Standard F1.	57%	73%	73%	72%	58%	37%	60%
Standard F2.	65%	78%	82%	83%	75%	66%	93.50%
Standard F3.	78%	81%	87%	80%	79%	75%	94.20%
Standard F4.	65%	80%	94%	75%	66%	63%	74.30%
Standard F5.	54%	74%	92%	79%	65%	65%	72.50%
Standard F6.	61%	72%	94%	72%	68%	56%	93.30%
Standard G1	80%	68%	81%	95%	63%	73%	77.70%
Standard G2	65%	91%	75%	72%	31%	40%	32.60%
Standard G3.	50%	77%	38%	78%	50%	40%	51.00%
Standard G4.	54%	83%	93%	71%	59%	60%	21.30%
Standard G5.	7%	0%	0%	20%	12%	31%	51.30%
Standard G6.	32%	82%	98%	71%	37%	45%	43.90%
Standard G7.	21%	10%	44%	43%	25%	39%	47.40%
Standard G8.	10%	36%	20%	27%	32%	35%	52.30%
Standard H1.	68%	81%	83%	76%	54%	68%	44.20%
Standard H2.	68%	70%	70%	73%	37%	51%	45%
Standard H3.	48%	74%	70%	73%	36%	51%	42.30%
Standard H4.	46%	66%	78%	80%	32%	44%	35%

ANNEXURE 3: Certification Criteria

Certification Criteria of DH under NQAS

- **I. Criterion 1 -** Aggregate score of the health facility $\geq 70\%$
- II. Criterion 2 Score of each department of the health facility $\geq 70\%$
- III. Criterion 3 Segregated score in each Area of Concern (Service Provision, Patient's Right, Inputs, Support Services, Clinical Services, Infection Control, Quality Management, Outcome Indicator) ≥ 70%
- IV. Criterion 4 Score of Standard A2, Standard B5 and Standard D10 is >70% in each applicable department.
 - > Standard A2 States "The facility provides RMNCHA services".
 - > Standard **B5** states that "the facility ensures that there are no financial barriers to access, and that there is financial protection given from the cost of hospital services".
 - Standard D10 states "the facility is compliant with all statutory and regulatory requirement imposed by local, state or central government."
- **V. Criterion 5** Individual Standard wise score $\geq 50\%$
- VI. Criterion 6 Patient Satisfaction Score of 70% in the preceding Quarter or more (Satisfied & Highly Satisfied on Mera-Aspataal) or Score of 3.5 on Likert Scale.

Award of Certification -

a) Certification – If health facility meets all of above-mentioned criteria.

- i. Certification/recertification is valid for a period of three years, subject to validation of compliance to the QA Standards by the SQAC team every year for subsequent two years.
- ii. In the third year, the facility would undergo re-certification assessment by the National Assessors after successful completion of two surveillance audits by the SQAC.
- b) Certification with Conditionality If a Health Facility's aggregate score is 70% or more (Criterion I), and also meets at least three criteria out of remaining five (Criterion II, III, IV, V & VI). Within agreed timeframe of six months, the facility is required to submit evidence of having addressed the reasons of conditionality, which may be verified by an external agency.

If the hospital does not meet the conditionality in stipulated time-frame, the QA certification may be revoked after giving one more chance for a period of six months.

- c) Deferred Certification The certification may be deferred until follow-up assessment if Hospital overall score is 70% in external assessment but does not meet the criteria for conditional certification as mentioned in Para (b) above. The window for follow-up assessment will be from 6 months to one year from the date of declaration of external assessment result.
- **d)** Certification declined If hospital does not score 70% in external assessment the certification will be declined. The hospital may freshly apply for certification but not before one year of declaration of external assessment result.

Criteria for Awards Scheme to the Public Health Facility under KAYAKALP

- 1. Constituted a Cleanliness and Infection Control Committee.
- Instituted a mechanism of periodic internal assessment/peer assessment based on defined criteria.

3. Achieved at least 70% score in the criteria during the external assessment process

Selection of Facilities

a. District Hospitals: In the eligible States (States with more than 10 Districts), the number of Awards is based on number of District Hospitals as per following details.

State	No of District Hospitals	Number of Awards
Category A	10-25	One award plus commendation prize to
		other facilities scored over 70%
Category B	26-50	1st Prize, one runner up prize and
		commendation prize to other facilities
		scored over 70%
Category C	>50	1st Prize, two runners up prize and
		commendation prize to other facilities
		scored over 70%

- b. CHC/SDH Award: In large state, the top two ranked CHCs/SDHs will receive an award.
 For small States, there will be only one award for the best facility in this category. In order to motivate, sustain and improve performance in facilities that score over 70%, a certificate of Commendation plus cash award would be given.
- c. PHC Award: In every district, the best PHC (24×7) will receive a cash prize. In order to motivate, sustain and improve performance in facilities that score over 70%, a certificate of Commendation plus cash award would be given.

ANNEXURE 4: Number of winner Facilities scored 70% and above in KAYAKALP

S. No	Name of	DHS	Number c	Number of DHs under	er	зрн/снс	Number	Number of SDHs/CHC	+C	ЬНС	Number	Number of PHC under	der
	State/UT		KAYAKALP Initis more than 70%	KAYAKALP Initiative scored more than 70%	scored		under KA	under KAYAKALP Initiative scored more than 70%	itiative 0%		KAYAKALP Initis	KAYAKALP Initiative scored more than 70%	re scored
			2015- 2016	2016- 2017	2017- 2018		2015- 2016	2016- 2017	2017- 2018		2015- 2016	2016- 2017	2017- 2018
1	Andhra Pradesh	42	8		35	192	0	0	0	1157	0	0	0
2	Arunachal Pradesh	18	2	2	2	63	0	3	4	143	0	5	8
3	Assam	25	4	10	12	96	0	3	6	165	0	5	22
4	Bihar	35	4	4	2	200	0	1	2	347	0	10	0
5	Chandigarh	0	0	0	0	2	0	0	0	0	0	0	0
9	Chhattisgarh	23	8	5	4	172	0	11	22	630	0	34	62
7	Delhi	41	0	0	0		0	0	0	0	0	0	0
8	Goa	2	1	0	1	9	0	0	2	25	0	2	0
6	Gujarat	23	3	13	13	399	0	134	146	1474	0	361	440
10	Haryana	20	3	8	5	66	0	3	4	152	0	22	38
11	Himachal Pradesh	11	7	4	4	153	0	2	20	515	0	12	44
12	Jammu and Kashmir	23	2	0	3	76	0	0	2	204	0	9	0
13	Jharkhand	23	1	3	2	200	0	1	4	330	0	1	6
14	Karnataka	53	7	13	18	330	0	23	09	2190	0	69	212
15	Kerala	41	9	9	9	308	0	9	8	862	0	2	14
16	Madhya Pradesh	51	6	10	13	400	0	0	0	1170	0	22	0
17	Maharashtra	37	5	4	18	293	0	45	94	1259	0	09	0
18	Manipur	7	2	0	1	18	0	1	2	85	0	6	15
19	Meghalaya	12	2	3	9	28	0	4	5	110	0	16	17

45	0	13	22	77	4	186	117	14	54	5	30	0	0	0	0	0
42	6	0	11	0	13	0	33	9	2	4	5	0	m	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	126	1226	496	895	16	1362	681	94	350	255	806	22	7	0	4	39
9	0	35	17	46	0	164	6	9	25	4	51	0	0	0	0	0
7	3	12	4	24	2	0	9	2	11	2	25	0	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	21	404	191	569		464	118	31	260	70	409	4	8		4	4
7	0	12	6	8	2	23	9	2	37	7	6	0	0	0	0	0
2	3	8	9	12	0	0	5	1	13	5	9	0	0	0	0	0
2	2	3	4	4	2	11	5	1	11	3	9	0	0	0	0	0
6	11	32	22	27	0	31	36	7	157	20	21	0	0	0	1	2
Mizoram	Nagaland	Odisha	Punjab	Rajasthan	Sikkim	Tamil Nadu	Telangana	Tripura	Uttar	Uttarakhand	West Bengal	Andaman and Nicobar Islands	Dadra and Nagar Haveli	Daman and Diu	Lakshadweep	Puducherry
70	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

ANNEXURE 5: Correlation Sheet

Facility Name	NQAS Score	Kayakalp Score
Civil Hospital- Panchkula	86%	98%
Civil Hospital- Gurugram	83%	85%
Civil Hospital- Rohtak	96%	94.80%
B.K. Hospital Faridabad	85%	76.83%
General Hospital- Vyara(Tapi)	81%	86.20%
General Hospital- Mehsana	91%	64.80%
PKG Rajkot	82%	78%
General Hospital- Nadiad(Kheda)	82%	90.20%
Jallian Wallan Bagh Martyrs Memorial CH	86.20%	74.40%
Amritsar (JBBM)		
Civil Hospital- Pathankot	86%	99.80%
CH Nawanshahar	83%	97.80%
DH Faridkot	84%	99.60%
A.P. Jain Civil Hospital Rajpura, Patiala	74%	89.80%
DH- Vizianagram	82%	99.40%
DH- Rajamahendravaram	88%	78.30%
DH- Anakapalli	87%	91.10%
DH Eluru, West Godavari District	90%	93.60%
DH Machilipatnm, Krishna Distt	85%	81%
MJN Hospital, Coochbhear	92%	66.80%
Siliguri DH	86%	99.80%
Pt. Madan Mohan Malivaya Hospital	93%	96.80%
District Hospital- Koppal	83%	67.60%
District Hospital- Tumakuru	94%	99.80%
District Hospital- Vijayapura	89%	99.80%
District Hospital- Aizwal (West)	96%	89.30%
Sardar Vallabh Bhai Patel Jila Hospital - Satna	92%	98.60%
DH Rajsamand	90%	92.20%
District Headquarters Hospital- Koraput	86%	81.20%
Veerangana Avantibai Mahila Hospital- Lucknow	76%	82%
Dr. Bhim Rao Ambedkar District Male Hospital- Etawah	91%	83.40%
District Women Hospital - Ghaziabad	73%	68.90%
Shri. Vinoba Bhave Civil Hospital- Silvassa	88%	92.40%

ANNEXURE 6: Key Performing Indicators for District Hospitals

Frequency	Monthly	Monthly	Monthly
Formula	(Total Patient bed days *100/Functional beds*days in month)	(Total number of lab tests done*1000/Total number of patients attended)	Total number of complicated pregnancies registered at the facility*100/Total Obs admissions
Denominator	Product of Total number of functional beds in the hospital and days in the month Exclusion: - Labour Room Tables and Observation Beds	Total number of patients attended during the month Inclusion: - Both OPD and IPD cases	Total number of obstetric cases admitted in the hospital
Numerator	Total Patient bed days (Midnight head count of each day added for the month of all patients) Exclusion – New-born in Maternity Wards and Day Care Patients	Total number of tests done for both OPD and IPD patients Exclusion - Test done at Point of care	Total number of high risk pregnancies registered at the facility Inclusion: -Severe Anaemia, PPH, PIH/Eclampsia, Retained Placenta, HIV Positive Pregnant women, Septic Cases, Obstructed labour including C- Section Exclude: - Referral without any interventions
Quality Indicator	Bed Occupancy Rate	Lab test done per thousand patients	Percentage of cases of High Risk Pregnancy/obstetric complication out of total registered pregnancies at the facilities
S No	-	7	ε.
Type	Productivity		

Monthly	Monthly	Monthly	Monthly	Monthly
Total number of major surgeries conducted in night time*100/Total number of major surgeries conducted	Total number of planned major surgeries conducted*100/Total number of major surgeries	Total number of C-section deliveries conducted*100/ Total number of deliveries conducted	Total number of deaths in emergency*100/Total number of registered patients in emergency	(No of cases referred out from the hospital*100/ Total no. of cases admitted)
Total major surgeries conducted in Hospital (Day+Night) Exclusion – Minor Surgeries	Total major surgeries conducted in Hospital (Day+Night)	Total deliveries conducted	Total number of registered patients in emergency Exclusion - Cases referred out	Total admission in the facility Exclusion: - Day care Procedures
Total major surgeries conducted during night including LSCS (8 PM to 8 AM) Exclusion – Minor Surgeries	Total number of planned major surgeries conducted during day time (8 AM TO 8 PM)	Total number of C-section delivery conducted	Total number of deaths in emergency Exclusion: - Brought dead	Total number of patients referred from the facility Inclusion: - Emergency and indoor cases Exclusion: - LAMA & absconding
Percentage of surgeries done in night out of total surgeries	Percentage of surgeries done during day out of total surgeries	C-Section Rate	Emergency Death Rate	Referral Out Rate
4	S	9	٢	∞
			Efficiency	

Monthly	Monthly	Monthly
Total number of major surgeries conducted/Total number of surgeons appointed	Total number of Patient consulted in OPD/Total number of doctor appointed for OPD	Take Median of all scores obtained (Arrange scores in increasing order-Pick the middle value if numbers are odd-Take average of middle two values if numbers are even)
Total number of surgeons appointed in the facility Inclusion: - Ortho, Gynae, Obs, General surgeon, EMOC trained doctors	Total number of doctors available in the hospital Inclusion: Regular, contractual, Part Time Exclusion: - Doctors not engaged in OPD like MS, Radiologist, Microbiologist	
Total number of major surgeries conducted	Total number of patients attended in OPD	
Major Surgeries per surgeon	OPD Per doctor	External Quality Score for Lab tests (Median Value)
6	0	=

Monthly	Monthly	Monthly	Monthly	Monthly
Total no. of Stock out days for Essential Commodities*100/ Total no. of commodities*Days in Month	Total maternal deaths*100/Total admission	Total number of neonatal deaths*100/No of Live births and Neonatal admission	Total number of maternal death review done*100/Total number of maternal deaths	Total Patient bed days /Total Discharges
Product of Total no. of Commodities and days in the month	Total number of pregnant women admitted	Total no. of neonates admitted including live births in Hospital and out born admissions	Total number of maternal deaths occurred	Total number of discharges. Inclusion: - Normal discharge, LAMA, Abscond, Referral, deaths
Total stock outs occurred for essential commodities each day added for the month Inclusion – List of vital drugs(RMNCH+A)	Total number of maternal deaths during the month	Total number of neonatal deaths Inclusion – Neonate died during first 28 days while admitted in the hospital including Out born admitted in neonate ward/SNCU Exclusion – Still Birth	Total number of maternal deaths review done during the month	Total Patient bed days (Midnight head count of each day added for the month of all patients)
Percentage of stock out of vital drugs (RMNCH+A)	Maternal death rate	Neonatal death rate	Percentage of cases for which maternal death review done	Average length of stay
12	13	41	15	16
	Clinical care and safety			

17 Surgical site infection Genetical (Amportunent discharge, absess, are infection advected (Amportunent discharge, absess, are infection advected (Amportunent discharge, absess, are infection advected (Amportunent discharge, absess, are infection detected* 100T of all number of foral month after the surgery) 18 Percentage of Total no f new-bom montality out of fotal adverses of new-bom solution in the SNCU admissions SNCU admissions 19 Number of Out born Out born 20 Number of Sterilization failure Sterilization 21 Sterilization 22 Sterilization Complications Sterilization Sterilization Total number of deaths in adverses after issuing of certificates of sterilization failure and female sterilization addition surgeries.	Monthly	Monthly	Monthly	Monthly
Surgical site infection rate rate rate Surgical site infection detected (Amy purulent discharge, absess, spreading cellulitis at surgical site during the month after the surgery) Percentage of Total no of new-born mortality out of total SNCU admissions Inclusion – Inborn and Out born Out born Number of Sterilization failure Sterilization Complications Complications	(Total number of surgical site infection detected*100/Total number of surgeries Conducted)	Total number of deaths in SNCU*100/Total new born admissions	Total number of cases detected with sterilization failure Inclusion: -Failure cases after issuing of certificates of sterilization for both male and female sterilization	Total number of complications detected after male and female sterilization surgeries.
Surgical site infection rate Percentage of mortality out of total SNCU admissions Number of Sterilization failure Number of Sterilization Complications	Total number of surgeries conducted (major & minor surgeries)	Total no of new born admitted in the SNCU Inclusion – Inborn and Out born		
	Total number of Surgical site infection detected (Any purulent discharge, absess, spreading cellulitis at surgical site during the month after the surgery)	Total no of new-born deaths occurred in the SNCU Inclusion – Inborn and Out born		
118 118 20 20	Surgical site infection rate	Percentage of mortality out of total SNCU admissions	Number of Sterilization failure	Number of Sterilization Complications
	17	18	19	20

Monthly	Monthly	Monthly	Monthly	Monthly
Total number of deaths after male or female sterilization surgeries	Total number of blood unit issued on replacement*100/Total number of blood units issued	Number of delivery cases partograph recorded*100/Total number of deliveries conducted	Total number of cases antibiotic prescribed*100/Total number of prescription audited	(No. of LAMA Patients from the facility*100/Total no. of admission)
	Total no of blood unit issued in the month Inclusion- Blood Unit issued without replacement	Total number of deliveries conducted Inclusion: - Cases shifted to OT	Total no of case records reviewed during prescription audit (At least 30 each for OPD and IPD)	Total admission in the facility
	Total no. of Blood Unit issued on replacement in each day added for Month Exclusion – Blood Units issued without replacement	Total number of delivery cases where partograph filled completely Exclusion: - Partial or incomplete filled partograph	No of OPD Slip/Indoor Case sheet found with prescription of IlIrd or IVth generation antibiotics during Monthly Prescription audit	Total number of LAMA patients from the facility Exclusion: - Abscond and referral cases
Number of deaths after Sterilization	Blood Replacement Rate	Percentage of deliveries having partograph recorded	Antibiotic Use Rate	Left against Medical advice (LAMA) Rate
21	22	23	24	25
				Service Quality Indicator

Monthly	Monthly	Monthly
Mean of scores given by each patient in Patient satisfaction survey for indoor patients done each month on statistically adequate sample (at least 30)	Mean of scores given by each patient in Patient satisfaction survey for outdoor patients done each month on statistically adequate sample (at least 30)	Average time taken by a patient from entering in queue for OPD registration to finally getting drugs at Pharmacy counter observed in time motion study done at peak hours on sample basis (at least 5% patients but not less than 30)
Total number of respondents	Total number of respondents	
Sum of average satisfaction score of each respondent (Average satisfaction score = sum total of scores of attributes/number of total attributes)	Sum of average satisfaction score of each respondent (Average satisfaction score = sum total of scores of attributes/number of total attributes)	
Patient Satisfaction Score (IPD)	Patient Satisfaction Score (OPD)	Registration to Drug time
26	27	78

•	٠	١
ţ	۰	,

Monthly	Monthly
Total number of JSY payment before discharge*100/Total registered patients under JSY	Total number of women provided drop back after delivery*100/Total number of deliveries conducted
Total no. of JSY beneficiaries registered in the month	Total no. of deliveries conducted at the facility including C-Section
Total No. of JSY beneficiaries got payment before discharge	Total no of women provided drop back each day added for month Exclusion – Referral transport to higher Centre
Percentage of JSY payments done before discharge	Percentage of women provided drop back facility after delivery
29	30

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