



AZAD JAMMU & KASHMIR

Essential Package of Health Services

with Localized Evidence









@November 2021

Essential Package of Health Services with localized evidence/ UHC Benefit Package of Azad Jammu & Kashmir

Produced by:

Health Department, Government of the State of Azad Jammu & Kashmir

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AJ&K UHC Technical Committee;
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MESSAGE

'A higher literacy rate and awareness among the AJK population present an excellent opportunity of reaping high health dividends from Universal Health Coverage. The availability, accessibility, and capacity of health workers to deliver quality essential health services are drivers to further improve health outcomes. Investments in quality primary health care is the foundation to achieving Universal Health Coverage.'

The newly formed Government of Azad Jammu and Kashmir (AJ&K) is committed to efficient governance in the state. Timely interventions in the social sector of AJK can result in improved health outcomes. In AJK, we observe comparatively less mortality among mothers and children. A gradual shift in AJK towards non-communicable diseases, is another sign of improving social status, but also leading to new challenges. Holistic policies are required for improved health outcomes not merely as a result of health sector interventions but taking an inter-sectoral approach. Half of the burden of diseases can only be tackled by working with allied sectors.



Mr Nisar Ansar Abdali Health Minister, Azad Jammu & Kashmir

The government is therefore, focused on the new development agenda, aligned to the emerging situation. The Health Department,

under the directions of the newly formed Government of AJK and the guidance of Honourable Sardar Abdul Qayyum Niazi - Prime Minister of A&K, has embarked on an ambitious health sector reform agenda to improve the health status of the population. We are committed to the development and implementation of the Essential Package of Health Services (EPHS)/ Universal Health Coverage (UHC) - Benefit Package. AJ&K specific EPHS, based on scientific evidence and local context, provides a unique opportunity to achieve better results for universal health coverage.

The AJK UHC Technical Committee under the leadership of Maj General Ahsan Altaf Satti, Secretary Health AJK and Dr Sardar Aftab Hussain - Director General (Health) AJ&K, deserve full credit for this tremendous effort in the shape of a costed EPHS / UHC Benefit Package of AJK. It provides a comprehensive set of the most essential health interventions that have the greatest potential of bringing about a significant improvement in the health status of the people of AJK. The highlight of the UHC Benefit Package of AJK is the utilization of local evidence in selection of interventions and target setting for the next ten years.

Now that the most essential health services have been decided, the challenge lies in getting these services to the people. It gives me great comfort in being able to affirm that the Government of AJK is fully committed towards taking this agenda ahead and looks forward to the partnership with the federal government and partners for the implementation of the UHC Benefit Package of AJK.

Implementation will also require careful planning by the Health Department, AJ&K for efficient implementation of services. The work so far put in by the AJ&K UHC Technical Committee in the finalization of the UHC benefit package of AJK is a testament to the fact that the Department has the capacity and the motivation to take this through.

Adapting to the needs of tackling burden of disease is critical to ensuring continuity of quality health service delivery. The UHC Benefit Package provides us the opportunity to be aware of what services will be needed for the residents of AJK. Now that we know what to do, let us resolve to carry out the implementation of this health services package for the betterment of our people.

FOREWORD



Maj General Ahsan Altaf Satti Secretary Health Azad Jammu & Kashmir

Health has been an important area for the new government of State of Azad Jammu and Kashmir (AJ&K). The Health Department under the guidance of the Honourable Sardar Abdul Qayyum Niazi - Prime Minister of A&K and Mr Nisar Ansar Abdali — Health Minister of AJK, is fully committed for better health outcomes of the people and ensuring progress towards achieving Universal Health Coverage (UHC).

The AJK UHC Technical Committee under the leadership of Dr Sardar Aftab Hussain, Director General (Health), deserves high praise for undertaking and completing this complex task in a short period of time. Key features of the AJK Essential Package of Health Services (EPHS)/ UHC Benefit Package are identification of essential services from international recommendations, utilization of local evidence regarding disease burden, detailed

costing of services using local processes and experience and finally prioritization of these services based on fiscal space for provision of these services to the population.

The AJK EPHS is based on local disease burden evidence and challenges. For the first time, complex Disability Adjusted Life Years (DALYs) data has been used to determine, which health problems require attention in AJK. The evidence shows that the burden of disease in AJK has gradually shifted towards non-communicable diseases (NCDs) from RMNCAH and communicable diseases and the prioritization has taken this epidemiological transition into account. International best practices available to address health problems were identified, costed and then prioritized considering local processes and practices. This is the first such exercise that has used scientific evidence for prioritization of health services in AJK and bring AJK at par with the rest of country.

Fundamental to any planning exercise, is the ability to ascertain future needs. Another aspect of the UHC Benefit Package development has been the target setting of prioritized interventions for next ten years, considering the population growth rate of AJK and changing health needs. It is only logical that the quantum of services currently being provided to the people, which are insufficient, will have to be increased not only to bridge the current gap but also to meet the future needs of the people.

These far-reaching reforms will require efforts on all fronts if we are to reap the full benefits that these reforms offer. This would require joint collaborative efforts with the federal government, line departments, development partners, civil society organizations, private sector, academicians and other stakeholders towards ensuring quality health service delivery. However, health department will have to play a central role and develop a strong coordination network in this respect.

The Health Department AJ&K is committed to securing finances that are essential in successful implementation of AJK EPHS. In this regard the Department envisages building planning and management capacity at district level as a critical step. The department has already embarked on developing a monitoring and evaluation framework for health sector, which will be finalized with the inputs of and in consultation with district health officers and other stakeholders.

This is a unique and historical opportunity for the Health Department, AJK to do something tangible and worthwhile in order to truly serve our people. We resolve not to let this opportunity pass by.

ACKNOWLEDGMENT

Universal Health Coverage (UHC) – Benefit Package of the State of Azad Jammu and Kashmir (AJK) is a health reform agenda that is geared towards the transformation of the health sector. The AJ&K UHC Technical Committee had the opportunity to work on some tangible reforms, under the leadership of his Excellency Sardar Abdul Qayyum Niazi - Prime Minister of AJK and Mr Nisar Ansar Abdali, Health Minister of AJ&K having a clear vision and commitment of 'no one is left behind' when it comes to health.

The AJK UHC Benefit Package of AJK takes lead from the national generic Essential Package of Health Services (EPHS) finalized and endorsed at the Inter-Ministerial Health & Population Council meeting held in Islamabad on October 22, 2020. The AJK government is committed in terms of its localization and implementation in AJ&K.



Dr Sardar Aftab Hussain Director General (Health) Azad Jammu & Kashmir

The AJ&K UHC Benefit Package of AJK is a unique set of reforms. For the first time local evidence has been used in ascertaining what are the pressing health problems in AJK and what are the best international practices that could be localized and implemented to address the health needs of the population. A salient feature is that the package of services is organized for implementation across five service delivery levels, which are, 1) Community level, 2) Primary Health Care level, 3) First Level Hospitals, 4) Tertiary level and 5) Population level. This level of detail provides a greater level of focus and will be used by health policy planners, service delivery personnel and health care providers to address the health needs as close as possible to where the services are required.

The AJ&K UHC Technical Committee acknowledges the continuous administrative support extended by Maj General Ahsan Altaf Satti, Secretary Health AJK, which enabled smooth functioning of the committee as all members were available to attend the technical sessions, which were part of the process of the EPHS prioritizing exercise in AJK.

The AJ&K UHC Benefit Package of AJK would not have been possible without the explicit and excellent support from the Federal Ministry of National Health Services, Regulations and Coordination. The Director General (Health) - Dr Rana Mohammad Safdar graciously deputed the technical team at the Health Planning, System Strengthening & Information Analysis Unit (HPSIU) for coordination and consultations with Health Department, AJK. Under the leadership of Dr Malik Muhammad Safi UHC Advisor and Dr Raza Zaidi, Health System Specialist, the HPSIU team worked diligently with AJK UHC technical committee and was able to successfully assist with the finalization of a prioritized EPHS/ UHC Benefit Package of AJK.

Development partner support has also been instrumental in completion of this prioritization exercise. WHO Head of Office for Pakistan Dr Mahipala Palitha and UNICEF Country representative Ms. Aida Girma have provided excellent support to complete the task without delay. It must be acknowledged that this important work in Pakistan started with advocacy by Dr Ala Alwan at the DCP3 Secretariat based at London School of Hygiene & Tropical Medicine. We are grateful to the DCP3 secretarial for choosing Pakistan as the first country in the world for this purpose.

The absolute sincerity and commitment demonstrated by UHC Focal Person for AJK, Dr. Farhat Shaheen, senior officials at the Health Department, stakeholders and members of the AJK UHC Technical Committee are commendable. Their commitment is encouraging as this team will have to see through the finalized package towards district planning and implementation.

Contributions

The Health Department, Azad Jammu & Kashmir played a lead role in the development of costed EPHS/ UHC Benefit Package of AJK in collaboration with partners and stakeholders.

Involvement of stakeholders from the public & private health sector, civil society organizations, academic institutions, UN and donor agencies was ensured for a comprehensive and inclusive dialogue.

Under guidance of

Mr Nisar Ansar Abdali, Health Minister, AJK; and Maj General Ahsan Altaf Satti, Secretary Health, AJK

Chair of the AJK UHC Technical Committee

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'LEAVING NO ONE BEHIND'



EXECUTIVE SUMMARY

Universal Health Coverage (UHC) is based on the principle that all individuals and communities have equitable access to their needed health care, in good quality, without suffering financial hardship. A set of policy choices about benefits and their rationing are among the critical decisions for moving towards UHC. The three dimensions of UHC are: i) which services are covered and which needs to be included; ii) covered population and extension to non-covered; iii) reducing cost sharing and fees.

Designing a comprehensive package of health services considering burden of disease, cost effectiveness of interventions and social context is critical to define which services are to be covered through different platforms: i) community level; ii) primary healthcare centre level; iii) first level hospital; and iv) tertiary hospital; and v) population level. In addition, interventions related to intersectoral prevention and fiscal policies play a key role in moving towards UHC.

Disease Control Priorities – Edition 3 (DCP3) finalized in 2017 defines a model concept of essential universal health coverage (EUHC) that provides a starting point for country/province-specific analysis of priorities considering cost structures, epidemiological needs, and strategic priorities.

Development of a generic Essential Package of Health Services/ UHC Benefit Package of Pakistan was carried out jointly by the Ministry of National Health Services, Regulations & Coordination (NHSR&C) and Provincial/ Area Health Departments and other key stakeholders. Following the same exercise, the Health Department, Azad Jammu & Kashmir (AJ&K) decided to localize scientific evidence in the context of federating area and use this to develop a costed Essential Package of Health Services.

The Health Department, AJ&K led the process of localization with a quick review of availability of essential health services in the province compared to 218 DCP3 recommended interventions and 151 prioritized interventions in the generic national EPHS. The review indicated that:

- Overall, 44.4% (97/218) of the DCP3 recommended EUHC interventions and 71.5% (108/151) of the generic EPHS interventions are being currently implemented partially, out of which only 9.1% of EUHC and 14.5% of generic EPHS interventions are expected to be accessible in more than 50% of the health facilities of AJK;
- Out of the DCP3 recommended district level EUHC interventions, 42.7% (79/185) and out of the generic district level EPHS interventions 75.2% (88/117) are available partially in AJK. Only 10.8% of district EUHC interventions and 17% of generic district EPHS interventions are available in more than 50% of facilities of AJK;
- Infectious diseases and non-communicable diseases clusters appears comparatively to be neglected areas;
- Interventions at Community and PHC centre level platforms are also not up to the mark;
- Range of services at tertiary hospitals is also limited, which may lead to transfer of patients to other provinces and Islamabad;

After the review, scientific evidence was localized in the context of AJ&K:

- It was decided to use the 'Description of Interventions' at national level as such as the same was developed through consensus among stakeholders, using the latest guidelines and manuals.
- The **burden of disease data for AJ&K** for the year 2019 from the Institute of Health Matrix & Evaluation was shared and used, rather than 2017 data used at the national level.

- The AJ&K UHC Technical Committee as a group decided the baseline and year wise milestones for each proposed intervention. Year-wise targeted population for each intervention was defined using projected AJ&K data from the 2017 census, latest national/provincial/area surveys, burden of disease data for AJ&K produced by the Institute of Health Metrics and Evaluation (IHME), administrative data and other published research. The baseline for some interventions was identified through department's programmatic data. Year-wise milestones were kept realistic as the same has significant impact on the overall unit cost.
- The **unit costs** for around 170 interventions across the five platforms estimated for the national exercise were used with adjustments to staff pay scales for AJ&K province.
- For the AJ&K EPHS, the **Incremental cost-effectiveness ratio** (ICER) values identified in the generic national EPHS were used (considering availability of limited data in province).

Health Interventions Prioritization Tool (Hiptool) is a web-based digital tool developed by the University College of London (UCL) and was used to analyse, optimise health interventions and visualization of results (in addition to Excel sheets). Optimization of interventions based on — cost effectiveness, disability adjusted life years (DALYs) averted, targeted population, budgetary impact was done. This consequently led to the Investment Cascade of Interventions in AJ&K to further analyse the evidence.

All evidence was reviewed and discussed in group work and then in a plenary. Later on, evidence was used for prioritisation of health interventions for AJ&K EPHS. A total of 154 interventions were reviewed by stakeholders and 98+12 interventions for District EPHS were prioritized.

Platform	Immediate Priority Interventions	Unit Cost (\$)/ person/ year (inclusive of health system cost)	DALYs Avert in 2021-22
1. Community level	21	3.28	55,048
2. PHC centre level	35	3.21	141,495
3. First level hospital	42	11.04	99,432
District EPHS	98	17.54	295,976
4. Tertiary hospital	22	2.95	20,971
5. Population level	12	7.29	++
All five platforms	132	27.77	316,947

- District EPHS included 98 interventions as immediate priority for EPHS, out of which 21 were at Community level, 35 at PHC centre level and 42 at First level hospital;
- An addition of 12 interventions through special initiatives will cost US\$4.19/ person/year and will avert additional 9,135 DALYs through District EPHS.

Year wise unit costs and DALYs averted were also estimated, whereas year-wise unit costs were also estimated using 8% annual inflation rate. All costs also included health system costs at district level.

Detailed health system needs and standards are included in this document considering prioritized interventions. It was also agreed to strengthen institutional capacity in AJ&K to regularly localize and generate evidence for inclusion and exclusion of interventions in future.

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Acronyms

AIDS Acquired Immune Deficiency Syndrome

AJ&K Azad Jammu & Kashmir AKU Aga Khan University ARV Anti-Retro-Viral therapy

BEMONC Basic Emergency Obstetrical and Neonatal Care

BOD Burden of Disease

CEMONC Comprehensive Emergency Obstetrical and Neonatal Care

COPD Chronic Obstructive Pulmonary Disease

CVD Cardio Vascular Diseases
DALYs Disability Adjusted Life Years

DCP3 Disease Control Priorities – Edition 3

DFID UK's Department for International Development

EPHS Essential Package of Health Services
EUHC Essential Universal Health Coverage

FCDO UK's Foreign Commonwealth Development Office GAVI Global Alliance on Vaccine & Immunizations

GDP Gross Domestic Product

GFATM Global Alliance to fight against AIDS, TB and Malaria

HIV Human Immuno-Deficiency Virus

HPSIU Health Planning, System Strengthening & Information Analysis Unit

HPV Human Papilloma Virus

ICPD International Conference on Population & Development

IMCI Integrated Management of Childhood Illnesses

JEE Joint External Evaluation

LSHTM London School for Hygiene and Tropical Medicine

MCH Maternal and Child Health
MDGs Millennium Development Gaols

MDR Multi Drug Resistance

M/o NHSR&C Ministry of National Health Services, Regulation & Coordination

NTD Neglected Tropical Diseases

PMTCT Prevention of Mother-to-Child transmission

RH Reproductive Health

SDGs Sustainable Development Goals
STI Sexually Transmitted Infections

TB Tuberculosis

UHC Universal Health Coverage

UN United Nations

UNICEF United Nations Children Fund WASH Water, Sanitation & Hygiene

WB World Bank

WHO World Health Organization

ESSENTIAL PACKAGE OF HEALTH SERVICES OF AZAD JAMMU & KASHMIR

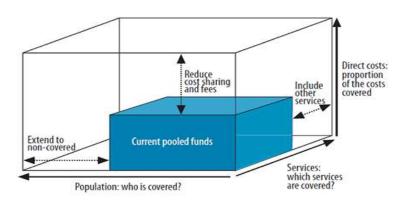
The Agenda for Sustainable Development 2015 was endorsed by the United Nations as an integrated global commitment to chart a new era for development and poverty reduction during the period 2015-2030. In this agenda, Universal Health Coverage (UHC) became the key outcome under the health goal of the Sustainable Development Goals (SDG).

The draft 12th Five Year Plan (health chapter), National Health Vision (2016) and Azad Jammu & Kashmir (AJ&K) Health Strategy are underpinned by the idea to ensure provision of good quality essential health care services to all people through a resilient and equitable health care system.

AJ&K Health Vision is:

'To improve the health of all people in Azad Jammu & Kashmir, particularly women and children, through universal access to affordable quality essential health services, and delivered through resilient and responsive health system, ready to attain Sustainable Development Goals and fulfil its other health responsibilities'

UHC is based on the principle that all individuals and communities have equitable access to their needed health care, in good quality, without suffering financial hardship. A set of policy choices about benefits and their rationing are among the critical decisions in the reform of health financing system towards universal coverage. Choices need to be made about proceeding along each of the three dimensions in a way that best fits their objectives as well as the financial, organizational and political contexts. The three dimensions are: i) which services are covered and which needs to be included; ii) covered population and extension to non- covered; iii) reducing cost sharing and fees.



Three dimensions to consider when moving towards universal coverage

Disease Control Priorities – Edition 3 (DCP3)¹ defines a model concept of essential universal health coverage (EUHC) that provides a starting point for analysis of priorities. Pakistan is one of the first countries in the world to use the global review of evidence by the DCP3 to inform the definition of its EPHS/ UHC benefit package.

To transform the AJ&K Health Vision into reality, one of the key actions is to develop area specific UHC Benefit Package. 'UHC Benefit Package' consists of i) **Essential Package of Health Services (EPHS)** at five platforms and ii) **Inter-sectoral Interventions/ policies**.

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¹ http://dcp-3.org/

The AJ&K Health Department in partnership with the DCP3 secretariat and funding of Bill & Malinda Gates Foundation (BMGF), World Health Organization (WHO), United Nations Children Fund (UNICEF) and the Ministry of National Health Services, Regulations & Coordination (NHSR&C), has ensured review and localisation of evidence to inform the prioritization of health interventions at five platforms for inclusion in the AJ&K EPHS. Evidence was gathered on burden of disease in AJ&K, unit cost and cost-effectiveness of each intervention, budget impact, feasibility, financial risk protection, equity and social context. In addition to economic evaluation, EPHS interventions incorporate evidence on intervention quality and uptake, along with non-health outcomes such as equity and financial protection.

The **objective of the AJ&K EPHS** is to define which services are to be covered through <u>five different</u> <u>platforms</u> (both through public and private sector) for ALL people in AJ&K:

- i) Community level;
- ii) Primary healthcare centre;
- iii) First level hospital;
- iv) Tertiary hospital; and
- v) Population level

Interventions at community, PHC centre and First level hospital are clubbed as the **District EPHS**, whereas interventions at tertiary hospital, population level and selected programmatic reforms are to be managed at area level. In addition, inter-sectoral policies can also play an important role in moving towards UHC and addressing around half of the burden of disease (BOD) in AJ&K by mitigating risk factors.

This localized evidence was used to organise priority services into <u>four clusters</u> and <u>twelve</u> categories:

- Reproductive, maternal, new-born, child, adolescent health & nutrition/ Life course related cluster
- b. Infectious diseases cluster
- c. Non-communicable diseases & Injury prevention cluster
- d. Health services cluster



The evidence has been intensely reviewed by the technical experts and stakeholders, followed by critical review at the UHC Technical Committee of AJ&K to select those health interventions that should be provided in the pathway to UHC, given the best estimates of the funding available to the government, partners and private sector.

HISTORY OF ESSENTIAL HEALTH SERVICES

Near the end of 19th century, the industrial revolution in Europe saw heavy disease and death tolls especially in urban areas. Early epidemiological discoveries about diseases like cholera, malaria, yellow fever etc., raised awareness about organization of medical services, clean water, sanitation, and living conditions. During the first half of the nineteenth century, different approaches were adopted by the European countries to tackle health challenges.

Later on, the Second World War damaged health infrastructures in many countries, paradoxically it also paved the way for the introduction of some reforms. Wartime Britain's national emergency service to deal with casualties was helpful in the construction of what became, in 1948, the National Health Service, perhaps the most widely influential model of a health system.

Japan and the Soviet Union also extended their limited national systems to cover most or all of the population, as did Norway and Sweden, Hungary and other communist states in Europe, and Chile. As former colonies (including Indo-Pak) gained independence, they also tried to adopt modern, comprehensive systems with heavy state participation.

At the time of independence in 1947, Pakistan inherited a wide range of public health problems. The majority of the country's population was illiterate, unaware of healthy lifestyles and practices, malnourished or under-nourished and living in low levels of environmental sanitation with majority having no access to safe drinking water. Situation was further aggravated by the fact that only a handful of doctors and skilled personnel were left behind to manage the situation.

In 1947, a large epidemiological outbreak of cholera in Egypt gave motivation to the development of tropical medicine for dealing with international outbreak containment. A programme of social uplift was also launched, and medical colleges were established in former East and West Pakistan. Later on, scope of health services remained under the influence of international declarations, global health initiatives and other development initiatives but largely focused on the disease specific approach to health. Pakistan's public health remained focused on small pox eradication, malaria eradication/ control and control of some other infectious diseases, as well.

A paradigm shift was witnessed in the health systems after the International Conference on Primary Health Care, Alma-Ata in 1978. Health for all (HFA) became the goal and achieving universal accessibility for populace through primary health care approach became the central theme. A large number of PHC facilities were established. In 1982, an alternate Selective PHC approach (GOBI – Growth monitoring, Oral rehydration salt, Breast feeding and Immunization) was launched, which mainly targeted childhood illnesses. The launch of the Lady Health Workers' Programme in 1994 was a major reform in the country, which also expressed the commitment of the government towards International Conference of Population and Development (ICPD).

During 1980s and 1990s the World Bank and other financial institutions assumed a more preeminent role in the health sector and for specific services private sector was also engaged. During 1990s, Global Health Initiatives (Global Polio Eradication Initiatives-GPEI; Global Fund to fight against AIDS, TB & Malaria – GFATM; Global Alliance for Vaccine and Immunization-GAVI etc.) started evolving and represented a radical shift towards these Initiatives.

In 2000, the Millennium Development Goals (MDGs) reinforced the vertical disease focused nature of development assistance with additional inclusion of hepatitis, blindness etc. along with some elements of health system strengthening indirectly through programmes focusing on maternal and

child health supported by bilateral donors and multilateral banks. A number of management and institutional reforms were also tested to improve efficiency and effectiveness in the health system.

Over the period, focus of provincial governments remained on hospitals, while private sector emerged as a major service provider. However, private sector prioritized provision of private goods in health and provision of public goods remained largely the mandate of public sector.

The public sector always faced fiscal constraints due to which it could not provide essential health services to all. After 2005 Earthquake, an attempt was made to define very broad basic package of health services. At the same time at global level, concept of EPHS developed further mainly in conflict affected countries — notably Afghanistan, Somalia, Liberia, South Sudan and the Democratic Republic of the Congo to name but a few. The key feature was that all the EPHS proposals were drawn up immediately after conflict/ humanitarian crises in order to assist with comprehensive reform and reconstruction of public health infra-structure.

In Pakistan, a more formal attempt for developing an essential package of health services (EPHS) was made initially in the provinces of Punjab and Khyber Pakhtunkhwa during 2012-13, and later on in Sindh, corresponding with the 18th constitutional amendment. With UK's Department for International Development / Technical Resource Facility (TRF) support, costed EPHS were defined but remained limited to reproductive, maternal, new-born, child health and nutrition services at primary health care level. Non-communicable diseases, health emergencies, inter-sectoral interventions were not prioritized, while the implementation focus remained largely through the public sector, along with contracting out of health facilities to NGOs to a variable extent. Main objective was to ensure efficiency and effectiveness of health services in the system rather than provision of comprehensive EPHS to all people. However, this offered a good lesson learning opportunity for provision of a package of services, which was positively supported by development of minimum services delivery standards mainly at primary level. In parallel, legislative reforms were also initiated to establish healthcare commissions/ authority, to set service delivery standards and their enforcement both in the public and private sector.

Health Insurance Programme was first approved in June 2014 and launched on December 31st 2015. The Programme aimed at families living below the poverty line and were covered for up to Rs. 50,000 of treatment in public or private hospitals and for up to Rs. 300,000 for treatment of seven particularly expensive diseases: diabetes, cardiovascular diseases, cancer, kidney and liver diseases, HIV and Hepatitis complications, burns and road accidents. In 2019, the package of services was enhanced to nine diseases and per family support was increased to Rs. 720,000 per year.

The 2030 agenda on Sustainable Development in 2015 has provided another opportunity to revisit the health services and health system in Pakistan to ensure achievements of new targets and goals, which are more comprehensive and ambitious than MDGs. The Astana Declaration in 2018 is also expected to provide a fresh look on the PHC agenda.

In August 2018, an international meeting on Disease Control Priorities - Edition 3 (DCP3) was held in Pakistan and attended by Morocco, Lebanon, Iran, Jordan, Pakistan, WHO EMRO, University of Washington and other stakeholders including provincial departments of health. Soon after the workshop, and on the decision of Inter-Ministerial Health & Population Forum meeting held in September 2018, Pakistan proposed the DCP3 secretariat to select Pakistan as the first country in the World to adopt DCP3 recommended interventions. The proposal was agreed by the secretariat.

In July 2019, with support of the DCP3 secretariat and WHO, work related to development of generic UHC Benefit Package of Pakistan started through a consultative process with provincial / area Health Departments and other stakeholders. The generic EPHS was endorsed by the Inter-Ministerial Health & Population Council on 22nd October 2020. It was also decided to develop province/area specific EPHS. Health Department, AJ&K has thus developed its EPHS based on localized evidence.

UHC SITUATION IN AZAD JAMMU & KASHMIR

AJ&K is committed to the sustainable agenda of 2030 and in health sector 'Universal Health Coverage' is the key outcome to ensure progress on health-related goal of 'Good Health'. Ensuring health services access without facing financial hardship is key to improving the well-being of a country's population. Universal health coverage is an investment in human capital and a foundational driver of inclusive and sustainable economic growth and development.

AJ&K is a federating area administered by Pakistan, as a nominally self-governing entity and constitutes the western portion of the larger Kashmir region, which has been the subject of a dispute between India and Pakistan since 1947. The territory shares a border to the north with Gilgit-Baltistan and to the south with Khyber Pakhtunkhwa and Punjab.

AJ&K remains in a virtual state of health emergency throughout the year, mainly due to its tortuous geopolitical and harsh weather conditions. There is a conspicuous weak tertiary care in the area and, hospitals too, are lacking in terms of lab facilities, beds, emergency drugs, and healthcare staff etc. Patients, due to the ineffective health care system, are referred to other major cities of Pakistan.

The trend analysis of AJ&K UHC service coverage index indicate a positive trajectory i.e., 39 in 2015 to 48 in 2019. The projected population in 2021 is 4.4 million, with more than 0.61 million children under 5 years of age and 0.92 million child bearing age women. The birth rate is estimated as 22.3 per 1000 population with total fertility rate is 3.5 children per women in 2017-18. The death rate is estimated at 5.93 per 1000 population. The life expectancy is 68.59 years (67.75 years for males and 69.45 years for females)² with projected growth rate <2.15.

Considering the burden of diseases, epidemiological transition is observed in AJ&K, i.e., shift from communicable/ RMNCH conditions to the emerging non-communicable conditions and injuries. Burden of the communicable, maternal, child and nutritional group, which was 57.42% (29,258 DALYs lost per 100,000 population) in 2000, has gone down to 35.24% (11,855 DALYs lost per 100,000 population) in 2019. However, the burden of non-communicable diseases (NCD) group which was 36.62% (18,626 DALYs lost per 100,000 population) of the total burden in the year 2000 has increased the share to 54.85% (18,447 DALYs lost per 100,000 population) in 2019. The share of burden of injuries increased from 5.95% (3,029 DALYs lost per 100,000 population) to 9.91% (3,330 DALYs lost per 100,000 population) over the same period.

The overall sexual and reproductive health in AJ&K is assessed by maternal mortality ratio and has reached the level of 104/100,000 live birth from $2016-2019^3$ and is the lowest compared to other provinces and areas. There are significant improvements in other maternal health indicators especially skilled birth attendant 64.1% and the institutional deliveries are 62.3% in $2017-18^4$. However, there are serious equity concerns as quality services are not available in many hard-to-reach areas.

² IHME; Global Burden of Disease data for AJ&K, 2019

³ NIPS; 2020; Pakistan Maternal Mortality Survey, 2019

⁴ NIPS; Pakistan Demographic & Health Survey (2017-18)

Unfortunately, there has been no progress in contraceptive prevalence rate with only 19.1 percent of couple is using the modern contraceptive methods. The lack of family planning leads to unintended pregnancies, leading to rising induced abortions and unplanned childbirth.

Maternal health has a direct impact on the new-born health. The neonatal mortality in AJ&K is 30/1000 live births, again low compared to other provinces. Under-five mortality is 53 / 1000 live births and the infant mortality is 47/1,000 live births in 2017-18. Pakistan demographic and Health survey 2017-18 in AJK demonstrate children under five years as 30% stunted and 6.4% wasted. The women of reproductive age (15-49 years) with anemia are constituting 43%, whereas the prevalence of anemia among under five children is 46%.

The DPT/ Penta III coverage was 95.4% in 2020.⁵ Only one district (Neelum) was having Penta III coverage of less than 90%. WPV polio cases cVDPV2 Polio have not been reported since 2015, indicating effective routine immunization coverage and national immunization days.

In 2019, the incidence of Tuberculosis is 177/100,000 population and the Multi Drug Resistance cases (incidence rate) 13.15/ 100,000 population. The total notified cases are 5,158 in 2019 with case detection rate of only 48% and treatment success rate 93%. The incidence rate of HIV & AIDS in AJ&K is 5.17 per 100,000 population. For Hepatitis B and C, blood transfusion, therapeutic injections, syringe use and hospitalization are the main risk factors for disease transmission in the province.

According to AJ&K burden of disease data for 2019, the prevalence of Hepatitis B is 68.72 per 100,000 people, while the prevalence of Hepatitis C is 9.05 per 100,000 people. The annual parasitic incidence in AJ&K is very low with total number of new cases of malaria in 2019 are 1,686.

The shift of burden of disease from communicable to non-communicable diseases accounting for 67.66% of total deaths as reported by Global Burden of disease data for AJ&K in 2019.

Among NCDs, the cardiovascular disease accounts for 28.2% of total deaths and the number of cases with stroke and ischemic heart disease are 0.032million and 0.087 million respectively. The second largest non-communicable group is cancers and neoplasms and are responsible for 14.93% of total deaths. The number of people living with mental health disorders are 0.5 million. Whereas with diabetes and the chronic liver disorders are 0.19 million and 0.74 million respectively.

AJK is facing a critical shortage of nurses. The essential health workforce (physicians, specialists, nurses, lady health visitors (LHVs) and midwives) density is 1.5 per 1,000 population, which is much below the indicative minimum threshold of 4.45 physicians, nurses and midwives per 1,000 population necessary to achieve universal health coverage. For sustainable development, these are not adequate numbers with further challenge of non-equitable distribution of health workforce and less skills mix to provide quality services.

There have been deliberate efforts to increase access and demand for healthcare services in the area. Emphasis on improving quality of essential health services also needs to be prioritized in order to achieve UHC.

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 $^{^{\}rm 5}$ AKU & M/o NHSR&C, 2021; Third Party Verification Immunization Coverage Survey, 2020

RATIONALE

The Health Department, AJ&K is committed to improve the health of all people, particularly women and children by providing universal access to affordable, quality, essential health services which are delivered in an efficient way through a resilient and responsive health system. On the other hand, there are always financial constraints and the government is unable to provide even basic health services to all people resulting in poor health outcomes.

The trend analysis of AJ&K UHC service coverage index indicate a positive trajectory -39% in 2015 to 48% in 2019. Note that the SDG baseline in 2015 for UHC coverage index in AJ&K and Pakistan was much less than the average of sub-Saharan Africa at 42^6 . While considering different factors, one cannot ignore whether right essential health services are offered to all people or not.

It was therefore, critical to review the current status of health services and suggest cost-effective interventions through different platforms in such a way to avert maximum possible preventable burden of disease in the area of AJ&K.

AIM AND PRINCIPLES

The UHC Essential Package of Health Services is a policy framework for service provision based on scientific evidence on health interventions. The <u>purpose</u> is to ensure that all people have access to essential health services (including prevention, promotion, curative, rehabilitation and palliation) particularly in the context of limited resources. It <u>aims</u> to address current poor access to health and inequalities in health service provision. It also helps to establish and clarify health priorities and direct resource allocation accordingly.

The guiding <u>principles</u> adopted for the development process of the 'UHC benefit package' included the following:

- Setting of the package is country/province/area executed and owned with active engagement of policy makers and other stakeholders
- The package should enhance equity and improve access for vulnerable segments of the population
- Strong commitment and joint work of key stakeholders in government and stakeholders is essential for success
- The process should be open and transparent in all steps with clearly defined criteria, driven by evidence and a systematic approach of collaboration from data to dialogue and decisions
- Partnership with other stakeholders including UN agencies and development partners is a critical component of joint work
- Feasibility and affordability of implementation is key. Unrealistically aspirational package with inadequate financial resources or health system capacity is a recipe for failure
- The package developed should be linked to robust financing mechanisms and effective service delivery system

PROCESS FOR THE DEVELOPMENT OF AJ&K EPHS

After the development of generic UHC Benefit Package for Pakistan, provincial/area adaptation of the UHC BP is a critical step for rolling out across the provinces/ federating areas. There are variations across the provinces/areas in terms of health systems dynamics, situation with regards to

⁶ WHO, 2016; World Health Statistics, Monitoring Health for SDGs

the prioritized interventions at the national level and the service delivery issues. Consequently, it is important that each province/ federating area, deliberate and prioritize interventions keeping in view the local context.

To implement the decision of developing province/area specific costed EPHS document, three options were considered by the AJ&K Health Department:

- a. Adopt the generic UHC BP for Pakistan / EPHS as AJ&K EPHS
- b. Consideration of the currently available AJ&K specific evidence and use this for prioritization of interventions for AK&K EPHS
- c. Province specific detailed evidence generation followed by intervention prioritization

The Health Department, AJ&K decided to opt for the option (b) of using AJ&K specific available evidence to a maximum possible extent and use national evidence where evidence generation is time consuming and difficult. It was also decided to institutionalize the process in the Health Department, AJ&K, so that evidence is generated on a regular basis and that the department will make required changes in the EPHS in future as required. Later on, following steps were followed:

Step 1: Governance arrangement

To ensure clear and consistent governance of the UHC BP provincial/area localisation, it was important to set out the order of procedures for decision making across different tiers, roles and responsibilities while ensuring clear ways of engaging to support an inclusive process.

The governance arrangement recognizes the leadership of the Health Department – AJ&K, while supported by the M/o NHSR&C, Partners and the UHC BP National Advisory Committee (NAC). Health Department, AJ&K notified the AJ&K UHC Technical Committee⁷ under the chairmanship of Director General (Health) – AJ&K and with wider representation of different constituencies with following Terms of Reference (TOR):

- The UHC Technical Committee will act as AJ&K specific Coordination and Facilitation architecture on UHC related interventions, projects and reform initiatives;
- Liaise with the Ministry of NHSR&C, other departments, partner organizations and stakeholders for effective coordination and harmonization;
- Facilitate generating the localized evidence for province/area specific UHC Benefit Package and related reform initiatives;
- Collection, collation of available data and information on UHC related interventions and situation in the province/area;
- Based on available localized evidence, the group will produce background documents/ discussions papers, which will be used to guide the development of provincial/area UHC Benefit Package (including a: Essential Package of Health Services for all five platforms – community, PHC centre, First level hospital, Tertiary hospital and Population level; and b: Inter-sectoral interventions policies);
- Facilitate consultations at different levels to produce the project documents not limited to the National Health Support Project (NHSP), Global Financing Facility and Joint UHC Technical Assistance (TA) Plan of the province/area;
- Monitor the progress of implementation of UHC related interventions and suggest recommendations for the consideration of AJ&K Health Department;
- The AJ&K UHC Technical Committee may form sub-committees as per need.

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⁷ Notification and TOR of UHC Technical Committee, AJK Health Department

The Government of AJ&K also notified AJ&K UHC Steering Committee⁸ under the chair of AJ&K Health Minister with following TOR:

- Provide strategic direction to oversee and governing all AJ&K UHC-Benefit activities;
- Drive the use of UHC-Benefit Package in policy and planning;
- Ensure stakeholders involvement in the AJ&K UHC-Benefit Package process;
- Review and approve the recommendations of the AJ&K UHC Technical Committee;
- Guide and approve work plans presented by the AJ&K UHC Technical Committee;
- Resource mobilisation of funds for UHC Benefit Package activities for long term sustainability;
- Monitor implementation progress in pilot districts and facilitate addressing barriers and challenges;
- Revisit the UHC Benefit Package considering evidence generated locally.

Step 2: Area Sensitization, Review and Localisation of Evidence

After initial meetings with the Ministry of NHSR&C and DCP3 secretariat, first formal consultative workshop of the UHC Technical Committee was held on 15-16th of June 2021 to sensitize the stakeholders from AJ&K on the process, appraise them of the UHC situation in the area, review the availability of essential health services and set baseline and milestones for all EPHS proposed interventions for AJ&K.

It was agreed that the criteria used for the development of generic national EPHS will also be used in AJ&K to guide the EPHS process. The criteria for the prioritization of interventions included:

- 1. Burden of Disease;
- 2. Effectiveness of intervention;
- 3. Feasibility;
- 4. Cost-effectiveness;
- 5. Equity;
- 6. Budget impact;
- 7. Financial risk protection; and
- 8. Social and economic impact.

Step 3: Review of Localized evidence and development of costed AJ&K EPHS

The first workshop was followed by analytical work by the core team and HPSIU to generate AJ&K specific evidence for the development of AJ&K EPHS. The following evidence was collated for the prioritization of interventions:

- 1. **Description of Interventions:** developed during the generic EPHS to be used as such in AJ&K as the same was developed at national level through consensus among stakeholders, using the latest guidelines and manuals.
- Burden of Disease in Azad Jammu & Kashmir: With availability of burden of disease data for AJ&K, it was decided to apply area specific 2019 BOD data, instead of 2017 BOD data used at national level for the generic EPHS.
- 3. **Target population for each Intervention:** The AJK UHC Technical Committee as a group decided the baseline and year wise milestones for each proposed intervention. Year-wise

⁸ Notification and TOR of AJ&K UHC Steering Committee, dated 26 August 2021; AJK Health Department

targeted population for each intervention was defined using projected AJ&K data from the 2017 census, latest national/provincial/area surveys, Institute of Health Metrics and Evaluation (IHME) and other published research. The baseline for some interventions was also identified through department's programmatic data. Milestones were kept realistic rather than ambitious as the same has significant impact on the unit cost estimation.

- 4. **Unit cost:** For the generic EPHS at national level, unit costs were calculated for 170 interventions across the 5 platforms. Costs were calculated to be nationally representative, using a provider perspective. Staff requirements were described in terms of staff type and number of minutes of direct contact required. For some interventions, multiple drug regimens were described depending on the target population. For equipment, resources were quantified by the number of minutes used per intervention. The same cost components were used in the AJ&K EPHS considering the fact that the technical specifications of the interventions will remain the same. However, staff salaries were adjusted to the pay scales in AJ&K and annual milestones defined by the AJ&K UHC technical committee were used to make year-wise cost projections. In addition, an inflation rate 8% was also added separately for the forthcoming years.
- 5. Incremental cost-effectiveness ratio (ICER): For the AJ&K EPHS, the ICER values identified in the generic national EPHS were used (considering availability of limited data at area level), which were identified through the use of the Tufts registry and DCP3 databases on cost-effectiveness. The matching of the ICERs for each intervention went through a step-wise process along with assessment of quality of data.
- 6. **Health Interventions Prioritization Tool (Hiptool):** 9 is a web-based digital tool developed by the University College of London (UCL) and was used to analyse, optimise health interventions and visualization of results. Optimization of interventions based on cost effectiveness, disability adjusted life years (DALYs) averted, targeted population, budgetary impact was done using the Hiptool. This consequently led to the Investment Cascade of Interventions in AJ&K to further analyse the evidence.

The next step after generation of localized evidence / investment cascade, was a three-days' workshop held on 22-24 June 2021. The AJ&K UHC Technical Committee deliberated to prioritize interventions into **immediate**, **special** and **high (but not immediate)** priority categories, considering the fiscal space and availability of resources for the implementation.

Prioritized interventions were drafted as EPHS document for final review by the AJ&K Core Committee and endorsement of the AJ&K UHC Steering Committee.

REVIEW OF AVAILABILITY OF ESSENTIAL HEALTH SERVICES IN AJ&K

The review was carried out by the Health Department, AJK and other key stakeholders to compare the current availability of Essential Health Services in the province against the DCP3 recommended 218 interventions for Essential UHC (EUHC) and 151 initially prioritized interventions under the generic EPHS of Pakistan.

Results are based on general consensus among 51 participants of AJ&K UHC Technical Committee and gives a glimpse of health services in the province. However, there would be significant variation in service provision not only among districts of AJK but also expected worse coverage in hard to

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⁹ Health Interventions Prioritization Tool Working Group. http://hiptool.org/

reach/ socio-economically poor districts. Results in AJK against the DCP3 recommended 218 EUHC interventions by platform and cluster are as following:

Platform	No of EUHC	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
Community	59	71%	8%	2%	12%	7%
PHC Centre	68	62%	16%	13%	7%	1%
First Level Hospital	58	38%	10%	47%	5%	-
Tertiary Hospital	20	30%	25%	45%	-	-
Population	13	69%	23%	8%	-	-

Cluster	No of EUHC	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
RMNCH/Age related	59	36%	19%	24%	15%	7%
Infectious diseases	51	76%	6%	12%	6%	-
NCD and Injuries	52	71%	13%	13%	2%	-
Services access	56	43%	16%	36%	4%	2%
TOTAL	218	54%	17%	23%	5%	2%

Results in AJK against the generic national EPHS initially prioritized 151 interventions by platform and cluster are as following:

Platform	No of EPHS	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
Community	28	21%	25%	14%	29%	11%
PHC Centre	43	44%	21%	23%	7%	5%
First Level Hospital	46	9%	13%	70%	9%	-
Tertiary Hospital	22	23%	32%	36%	9%	-
Population	12	75%	25%	-	-	-

Cluster	No of EPHS	Not	Available	Available	Available	Available
	interventions	available	1-25%	26-50%	51-75%	>75%
RMNCH/Age related	53	15%	25%	34%	19%	8%
Infectious diseases	30	60%	10%	20%	10%	-
NCD and Injuries	29	48%	24%	24%	3%	-
Services access	39	8%	23%	59%	8%	3%
TOTAL	151	33%	20%	34%	10%	3%

Summary results of the review indicate that:

- Overall, 44.4% (97/218) of the DCP3 recommended EUHC interventions and 71.5% (108/151) of the generic EPHS interventions are being currently implemented partially, out of which only 9.1% of EUHC and 14.5% of generic EPHS interventions are expected to be accessible in more than 50% of the health facilities of AJK;
- Out of the DCP3 recommended district level EUHC interventions, 42.7% (79/185) and out of the generic district level EPHS interventions 75.2% (88/117) are available partially in AJK. Only 10.8% of district EUHC interventions and 17% of generic district EPHS interventions are available in more than 50% of facilities of AJK;

- Out of the DCP3 recommended community level EUHC interventions, 28.8% (17/59) and out of the generic community level EPHS interventions 78.5% (22/28) are available partially in AJK. However, only 18.6% of community level EUHC interventions and 39.2% of generic community EPHS interventions are available in more than 50% of communities;
- Out of the DCP3 recommended PHC centre level EUHC interventions, 38.2% (26/68) and out of the generic PHC centre level EPHS interventions 55.8% (24/43) are available partially in AJK. However, only 8.8% of PHC level EUHC interventions and 11.6% of generic PHC centre EPHS interventions are available in more than 50% of facilities;
- Out of the DCP3 recommended FLH level EUHC interventions, 62% (36/58) and out of the generic FLH level EPHS interventions 92% (42/46) are available partially in AJK. However, only 5% of FLH level EUHC interventions and 8.6% of generic FLH EPHS interventions are available in more than 50% of facilities;
- Out of the DCP3 recommended TH level EUHC interventions, 70% (14/20) and out of the generic TH level EPHS interventions 77% (17/22) are available partially in AJK. However, Nil of TH level EUHC interventions and 9% of generic TH EPHS interventions are available in more than 50% of TH in AJK;
- Out of the DCP3 recommended Population level EUHC interventions, 30.7% (4/13) and out of the generic population level EPHS interventions 25% (3/12) are available partially in AJK;
- Analysis of cluster-based results indicate that out of 218 DCP3 recommended EUHC services, partially available RMNCH and age-related cluster interventions are 38/59 (64.4%), for infectious diseases cluster 12/51 (23.5%), for NCD & injuries cluster 15/52 (28.8%) and for health services cluster 32/56 (57%). Infectious diseases and non-communicable diseases clusters appears to be neglected areas;
- Analysis of cluster-based results indicate that out of 151 recommended generic EPHS services, partially available RMNCH and age-related cluster interventions are 45/53 (84.9%), for infectious diseases cluster 12/30 (43%), for NCD & injuries cluster 15/29 (51.7%) and for health services cluster 36/39 (92%). Again, infectious diseases and non-communicable diseases clusters need more attention.

The review concludes that

- Current services are not sufficient to make significant progress towards achieving UHC;
- Two platforms community and PHC centre level should have scaled up services through an integrated approach;
- Range of services at tertiary hospitals is also limited, which may lead to transfer of patients to other provinces and Islamabad;
- Where services are included in the package they should be provided with the appropriate technology and to a high quality;
- EPHS should be a live document and should be reviewed regularly;
- UHC benefit package should also consider inter-sectoral interventions, which are mostly cost-effective and have long lasting impact on the health outcomes.

AN OUTLINE OF AJ&K EPHS WITH LOCALIZED EVIDENCE

The Essential Package of Health Services (EPHS) has been designed to provide a progressively improving access of essential health care services to the population considering fiscal space and based on the commitment of the government to achieve UHC.

The fiscal space is critically constrained and the health part of the government budget that provides sustainable resources for public purposes is very narrow¹⁰. Although a gradual increase in health expenditure has been reported in recent years, health expenditure remains low in AJ&K with equity issues. In Pakistan, public health expenditure is around 1% of the GDP whereas around 2% of the health expenditure is out-of-pocket. The total health expenditure per capita was US\$ 48 in 2017-18, of which public spending on health was around US\$ 18-19,¹¹ much lower than the estimated cost of the packages and compared to other countries in the region.

Adequate public spending on essential health services is central to UHC, the current financial gap calls for exploring options to implement the recommended package in a way that is consistent with current fiscal realities but also take into account the potential to adopt approaches for progressive increase in resources and coverage of interventions.

While the government need to focus attention not only to enhance health sector allocations but also to gradually improve the coverage of essential health services especially in socio-economic poor districts. The contents of the EPHS are therefore a dynamic process that should be regularly updated and refined by the Health Department. District level interventions through community, PHC clinic and FLH are interlinked with each other and augment each other for maximum benefit.

Needless to say, prioritizing the government budget for EPHS is a very challenging task that requires full engagement of the highest level of government and relevant sectors specially the AJ&K Planning & Development Department, AJ&K Finance Department and the Federal government. Making the case for a higher level of investment in health requires:

Conducting fiscal space analysis and identifying potential sources of additional funding

- Linking revenue raising to a health financing strategy and investment plan
- Advocacy for political support and presenting evidence of efficiency and economic gains

Details of interventions prioritized for the AJK EPHS are as following:

Platform	Number of DCP3 recommended Interventions	High Priority Interventions (with split)	Immediate Priority Interventions (with split)	Interventions through Special Initiatives
1. Community level	59	28	21	6
2. PHC centre level	68	45	36	2
First level hospital	58	47	39	4
District EPHS	185	120	96	12
4. Tertiary hospital	20	22	22	-
5. Population level	13	12	10	-
All Five Platforms	218	154	128	12

 $^{^{\}rm 10}$ WHO. https://www.who.int/health_financing/topics/fiscal-space/why-it-matter/en/ $^{\rm 10}$

¹¹ Federal Bureau of Statistics; National Health Accounts 2017-18

A summary of interventions (immediate priority) of AJK EPHS for the year 2021 are as follows:

Platform	Immediate Priority Interventions	Unit Cost (\$)/ person/ year (inclusive of health system cost)	DALYs Avert
1. Community level	21	3.28	55,048
2. PHC centre level	36	3.21	141,495
First level hospital	39	11.04	99,432
District EPHS	96	17.54	295,976
4. Tertiary hospital	22	2.95	20,971
5. Population level	10	7.29	++
All five platforms	128	27.77	316,947

An addition of <u>12 interventions through special initiatives</u> will cost US\$4.19/ person/ year and will avert additional 9,135 DALYs through District EPHS:

- Community: US\$0.91 per capita cost of six interventions to avert 2,595 DALYs
- PHC centre: US\$0.02 per capita cost of two interventions to avert 137 DALYs
- FLH: US\$3.27 per capita cost of two interventions to avert 6,402 DALYs

DALYs avert through population level interventions are difficult to measure but are expected to be highly cost-effective, especially in partnership with other provinces/ federating areas.

At the community level, majority of interventions are to be implemented through Lady Health Workers (LHWs), which cost US\$1.53 to US\$2.3/person/year depending upon the covered population per LHW (1,500 or 1,000 people respectively).

Implementation of EPHS progressively improves the coverage of essential health care services to the population and accordingly has cost implication and DALYs averted. Accordingly, projections from 2021 to 2027 are shown below.

	District EPHS – 120 interventions		District EPHS – 108 interventions (Immediate & Special)		
Year	Unit Cost (\$) (Inclusive of health system cost)	DALYs Averted	Unit Cost (\$) (Inclusive of health system cost)	DALYs Averted	
2021	25.91	314,576	21.73	305,111	
2022	27.57	326,578	22.48	307,872	
2023	30.85	345,173	24.73	328,233	
2024	34.01	390,946	27.48	365,958	
2025	37.35	425,048	30.41	397,778	
2026	39.87	453,353	32.52	423,812	
2027	42.38	481,234	34.63	449,445	

Year	DISTRICT EPHS – 96 interventions (Immediate Priority)					
Teal	Unit Cost (\$) (Inclusive of health system cost)	DALYs Averted	Unit Cost (\$) 8% annual inflation rate			
2021	17.54	295,976	18.94			
2022	17.77	298,220	19.19			
2023	19.22	316,933	20.76			
2024	20.94	352,614	22.61			
2025	23.11	382,882	24.96			
2026	24.51	407,498	26.47			
2027	25.90	431,716	27.98			

	Tertiary H	interventions		
Year	Unit Cost (\$) (Inclusive of health system cost)	DALYs Averted	Unit Cost (\$) with 8% annual inflation rate	
2021	2.95	20,971	3.19	
2022	3.48	22,353	3.75	
2023	4.14	24,401	4.48	
2024	4.82	26,663	5.20	
2025	6.41	38,442	6.92	
2026	7.25	42,610	7.83	
2027	8.16	46,825	8.81	

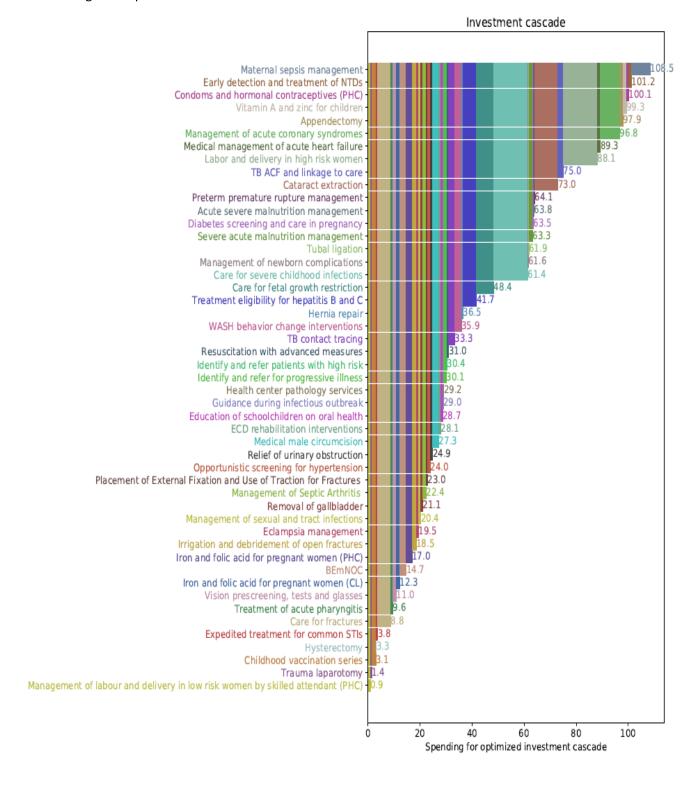
	Population Level – 10 interventions							
Year	Unit Cost (\$)	Unit Cost (\$)						
		with 8% annual inflation rate						
2021	7.29	7.87						
2022		8.50						
2023		9.18						
2024		9.92						
2025		10.71						
2026		11.57						
2027		12.49						

Note:

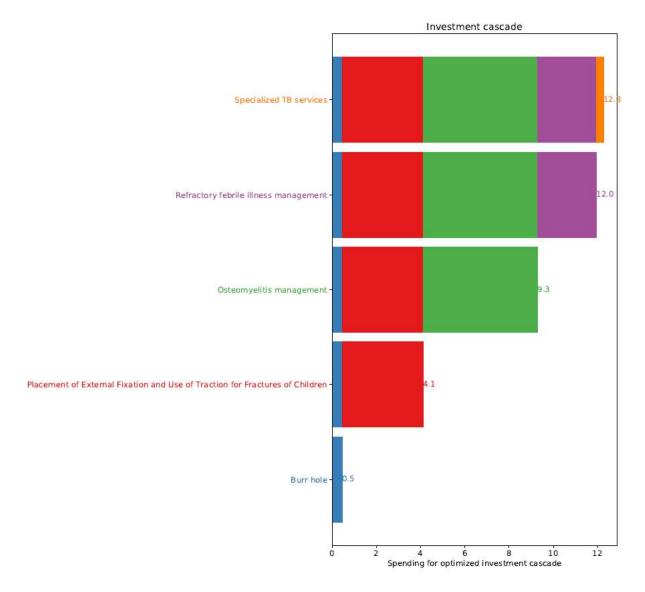
- Unit cost at Tertiary hospital is less as limited services are offered at this level in AJ&K. On the other hand, unit cost of FLH is high as referral services are catered more at this level.
- Cost of Population level interventions is very high in AJ&K and these interventions are not recommended to be executed alone by the Health Department, AJ&K. Partnership with other provinces, development partners or federal government can bring down the unit cost significantly.

INVESTMENT CASCADES

Optimization of interventions based on localized evidence was done using – 'HiP Tool (Health Interventions Prioritization Tool)'. This consequently led to the **Investment Cascade of Interventions**, which suggest interventions may be prioritized for inclusion in EPHS, while considering fiscal space. Investment Cascade for 120 District level interventions for AJK is as below:



Investment Cascade for Tertiary Hospital EPHS for AJ&K is as below:



Some of the interventions were optimized by 'Hiptool' considering AJK situation i.e., non-availability of evidence/ service.

The following section provide details of interventions and evidence in the context of AJ&K EPHS.

Localised Evidence of 120 Interventions for District EPHS and Prioritisation of Interventions

Essential Package of Health Services of AJK

Full Name of Intervention	Cluster	Cost effectiv eness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Intervention Intervention USD total spending	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Interven- tion \$	Unit Cost/ Interven- Immediate/ tion Special \$ Initiatives
Antenatal and postpartum education on family planning	RMNCH	12	57	6,063	45,137	0.04%	Low	0.01	1.62	0.55	_
Education on handwashing and safe disposal of children's stools	RMNCH	∞	34	1,124	97,542	%60'0	Low	0.02	3.51	1.19	_
Pneumococcus vaccination	RMNCH	43	749	329	1,814,770	1.62%	High	0.42	65.23	18.34	_
Rotavirus vaccination	RMNCH	100	38,571	1	896,384	0.80%	Medium	0.21	32.22	90.6	_
Provision of vitamin A and zinc	RMNCH	92	6,143	6	1,364,090	1.22%	High	0.32	49.03	20.80	S
according to WHO guidelines, and provision of food supplementation to women and children in food inserting households.											Zinc Immediate
Childhood vaccination series (diphtheria, pertussis, tetanus, polio, BCG, measles, hepatitis B, Hib, rubella)	RMNCH	18	121	1,228	1,630,233	1.46%	High	0.38	58.60	18.67	_
Education of schoolchildren on oral health	RMNCH	47	1,082	512	610,354	0.55%	Medium	0.14	21.94	1.34	_

Juit Cost/ Interven- Immediate/ tion Special \$ Initiatives	l Referral to THQ	_	_	_	-	_
Unit Cost/ Interven- tion \$	2.95	0.75	56.63	57.09	23.14	1.62
Cost per capita PKR	48.23	2.15	46.09	79.65	1.06	0.07
Cost per capita \$	0.31	0.01	0.30	0.51	0.01	0.00
Budget Impact	High	Гом	High	High	row	Low
Spending per Intervention USD % of total spending	1.20%	0.05%	1.15%	1.98%	%£0:0	%00'0
Spending per Spending per Intervention USD % of total spending	1,341,828	59,792	1,282,078	2,215,644	29,509	2,066
Burden of Diseases Annual DALYs per 100,000	265	1,454	351	351	5,735	5,735
ICER	229	54	266	286	2	Н
Cost effectiv eness and ranking	22	11	23	27	3	2
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Vision pre-screening by teachers; vision tests and referral for provision of ready-made glasses by eye specialists	Counselling of mothers on providing thermal care for preterm new-borns (delayed bath and skin-to-skin contact)	Provision of iron and folic acid supplementation to pregnant women, and provision of food or caloric supplementation to pregnant women in food insecure households	Provision of iron and folic acid supplementation to pregnant women, and provision of food or caloric supplementation to pregnant women in food insecure households	Management of labour and delivery in low-risk women by skilled attendant	Basic neonatal resuscitation following delivery
DCP 3 Code /UHC BP Platform	C19-COM	C2-COM	C27a-COM	С27Ь-РНС	C3a-COM	C3b-COM

nmediate/ Special Initiatives	_	_	-	_	_	×	_	_
Unit Cost/ Interven- Immediate/ tion Special \$ Initiatives	23.90	1.75	1.14	1.07	20.05	514.33	184.41	266.95
Cost per capita PKR	32.88	2.41	3.35	3.98	8.41	239.17	1.29	466.73
Cost per capita \$	0.21	0.02	0.02	0.03	0.05	1.54	0.01	3.01
Budget Impact	Medium	Low	Low	Low	Low	High	Low	High
Spending per Intervention USD % of total spending	0.82%	%90:0	%80:0	0.10%	0.21%	2.96%	0.03%	11.62%
Spending per Spending per Intervention USD total spending	914,591	66,943	93,150	110,673	234,087	6,653,344	35,783	12,983,905
Burden of Diseases Annual DALYs per 100,000	5,735	5,735	1,288	43	141	1,487	2	3,232
ICER	17	1	54	2,857	2,900	1,286	1,082	1,286
Cost effectiv eness and ranking	4	1	10	80	81	71	99	70
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Management of labour and delivery in low-risk women by skilled attendant	Basic neonatal resuscitation following delivery	Promotion of breastfeeding or complementary feeding by lay health workers	Tetanus toxoid immunization among schoolchildren and among women attending antenatal care	Detection and management of acute severe malnutrition and referral in the presence of complications	Detection and management of foetal growth restriction	Surgical termination of pregnancy by manual vacuum aspiration and dilation and curettage	Full supportive care for severe childhood infections with danger signs
DCP 3 Code /UHC BP Platform	СЗс-РНС	СЗА-РНС	C4-COM	С5-РНС	C8-COM	FLH1-FLH	FLH10-FLH	FLH11-FLH

Essential Package of Health Services of AJK

Jnit Cost/ Interven- Immediate/ tion Special \$ Initiatives	_	_	I DHQ Only	_	I DHQ Only	1 24/7 BHU and RHC
Unit Cost/ Interven- tion \$	126.50	252.26	570.38	5.46	25.54	31.88
Cost per capita PKR	7.64	52.44	469.23	6.75	8.89	88.94
Cost per capita \$	0.05	0.34	3.03	0.04	90.0	0.57
Budget Impact	Low	High	High	Low	Low	High
Spending per Intervention USD % of total spending	0.19%	1.31%	11.68%	0.17%	0.22%	2.21%
Spending per Intervention Intervention USD % of total spending	212,572	1,458,837	13,053,397	187,813	247,402	2,474,262
Burden of Diseases Annual DALYs per 100,000	329	1,454	6,063	329	27	6,063
ICER	1,429	35,714	3,703	41	2,571	267
Cost effectiv eness and ranking	72	66	85	6	78	24
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Management of new-born complications infections, meningitis, septicaemia, pneumonia and other very serious infections requiring continuous supportive care (such as IV fluids and oxygen)	Management of preterm labour with corticosteroids, including early detection at Health Centre	Management of labour and delivery in high-risk women, including operative delivery (CEMNOC)	Early detection and treatment of neonatal pneumonia with oral antibiotics	Screening and management of diabetes in pregnancy (gestational diabetes or pre-existing type II diabetes)	Management of labour and delivery in low-risk women (BEmNOC), including initial treatment of obstetric or delivery complications prior to transfer
DCP 3 Code /UHC BP Platform	FLH6-FLH	FLH7-FLH	FLH8-FLH	нс1-Рнс	HC10-FLH	HC11-PHC

nmediate/ Special Initiatives	_	_	×	_	_	_
t/ Imme Spe Initiä						
Unit Cost/ Interven- Immediate/ tion Special \$ Initiatives	7.46	2.05	15.04	5.10	28.95	176.45
Cost per capita PKR	4.48	1.89	ı	31.58	90.9	12.31
Cost per capita \$	0.03	0.01	1	0.20	0.04	0.08
Budget Impact	Low	Low	Low	Medium	Low	Low
Spending per Intervention USD % of total spending	0.11%	%50.0	%00.0	0.79%	0.15%	0.31%
Spending per Spending per Intervention USD total spending	124,716	52,440	-	878,461	168,519	342,376
Burden of Diseases Annual DALYs per 100,000	3,227	1,098	1,234	202	S	1,858
ICER	23	4,821	1,206	469	3,857	3,041
Cost effectiv eness and ranking	9	06	118	36	86	82
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Detection and treatment of childhood infections with danger signs (IMCI)	Psychological treatment for mood, anxiety, ADHD, and disruptive behaviour disorders	Post gender-based violence care, including counselling, provision of emergency contraception, and raperesponse referral (medical and judicial)	HC17-PHC Syndromic management of common sexual and reproductive tract infections (for example uretheral discharge, genital ulcer, and others) according to WHO guidelines	Management of miscarriage or incomplete abortion and post abortion care	Management of preterm premature rupture of membranes, including administration of antibiotics
DCP 3 Code /UHC BP Platform	нс12-Рнс	HC14-PHC	нс16-РНС	HC17-PHC	НС2-РНС	нсз-ғгн

Juit Cost/ Interven- Immediate/ tion Special \$ Initiatives	-	-	_	_	_	_	_	_	I DHQ Only
Unit Cost/ Interven- tion \$	15.20	15.20	0.67	29'0	66.11	17.18	0.43	7.11	38.63
Cost per capita PKR	4.06	2.90	0.01	0.05	5.49	2.52	1.00	16.52	5.01
Cost per capita \$	0.03	0.02	0.00	00.0	0.04	0.02	0.01	0.11	0.03
Budget Impact	Low	Low	Low	Low	row	Low	Low	row	Low
Spending per Intervention USD % of total spending	0.10%	0.07%	%00:0	%00'0	0.14%	%90:0	0.02%	0.41%	0.12%
Spending per Spending per Intervention Intervention USD total spending	113,043	80,745	186	1,432	152,798	70,022	27,684	459,550	139,491
Burden of Diseases Annual DALYs per 100,000	307	307	1,320	1,320	329	ιΩ	147	147	5,711
ICER	286	6,501	430	430	107	1,714	132,148	132,148	83
Cost effectiv eness and ranking	28	91	32	33	16	73	102	101	14
Cluster	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH	RMNCH
Full Name of Intervention	Provision of condoms and hormonal contraceptives, including emergency contraceptives	Provision of condoms and hormonal contraceptives, including emergency contraceptives and IUDs	Counselling of mothers on providing kangaroo care for new-borns (CL)	Counselling of mothers on providing kangaroo care for new-borns (PHC)	Management of neonatal sepsis, pneumonia, and meningitis using injectable and oral antibiotics	Pharmacological termination of pregnancy	Screening of hypertensive disorders in pregnancy	Screening and management of hypertensive disorders in pregnancy	Full supportive care for preterm new-borns
DCP 3 Code /UHC BP Platform	HC4a-COM	нс4ь-рнс	HC5a-COM	нсэр-рнс	нсе-ғгн	нс7-РНС	нсэа-сом	нсэр-рнс	RH1-FLH

Essential Package of Health Services of AJK

nmediate/ Special Initiatives	×	v	v	S	-
Unit Cost/ Interven- Immediate/ tion Special \$ Initiatives	1.68	2.24	22.65	8.05	13.86
Cost lead of the control of the cont	1	1	1	1	82.20
Cost per capita \$	1	1	1	1	0.53
Budget Impact	Low	Low	Low	Low	High
Spending per Intervention USD % of total spending	%00.0	%00.0	0.00%	%00:0	1.93%
Spending per Intervention USD total spending	-	-	1	1	2,286,728
Burden of Diseases Annual DALYs per 100,000	ന	310	884	884	3,803
ICER	217	286	286	286	1,082
Cost effectiv eness and ranking	106	117	116	108	52
Cluster	RMNCH	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	In high malaria transmission settings, indoor residual spraying (IRS) in selected areas with high transmission and entomologic data on IRS susceptibility	Community-based HIV testing and counselling (for example, mobile units and venue-based testing), with appropriate referral or linkage to care and immediate initiation of lifelong ART	C30a-COM Provision of condoms to key populations, including sex workers, men who have sex with men, people who inject drugs (IDU), transgender populations, and prisoners	C30b-COM Provision of disposable syringes to people who inject drugs (IDU)	Routine contact tracing to identify individuals exposed to TB and link them to care
DCP 3 Code /UHC BP Platform	C17-PHC	C28-COM	C30a-COM	C30b-COM	C32-COM

Unit Cost/ Interven- Immediate/ tion Special \$ Initiatives	2.64 X	_	12.71	12.71 I	
Cost per capita PKR	1		39.77		
Cost t per capita \$	•	_	n 0.26		
Budget Impact	Low		Medium	Medium	Low
Spending per Intervention Intervention USD total spending	%00'0		0.94%	0.20%	0.20%
Spending per Intervention USD	-		1,106,345	1,106,345	1,106,345 233,396 388,994
Burden of Diseases Annual DALYs per 100,000	2,042		32	2,469	2,469
IGER	1,082	0 0 2 7	/60,0	1,082	1,082
Cost effectiv eness and ranking	119	0.0			
Cluster	Infectious Disease Cluster	Infectious	Disease	Disease Cluster Infectious Disease Cluster	Disease Cluster Infectious Disease Cluster Infectious Disease Cluster Cluster
Full Name of Intervention	For malaria due to P. vivax, test for G6PD deficiency; if normal, add chloroquine or chloroquine plus 14-day course of primaquine	Early detection and treatment of	Chagas disease, human African trypanosomiasis, leprosy, and leishmaniases		Chagas disease, human African trypanosomiasis, leprosy, and leishmaniases Identify and refer patients with high risk including pregnant women, young children, and those with underlying medical conditions In the context of an emerging infectious outbreak, provide advice and guidance on how to recognize early symptoms and signs and when to seek medical attention
DCP 3 Code /UHC BP Platform	C33-PHC F	C43-COM E	<u> </u>	C45-COM IG	C45-COM Is in

Jnit Cost/ Interven- Immediate/ tion Special \$ Initiatives	_	v	v	-
Unit Cost/ Intervention	135.02	301.91	3.88	3.69
Cost per capita PKR	4.90	187.19	2.41	19.05
Cost per capita \$	0.03	1.21	0.02	0.12
Budget Impact	Low	High	Low	Low
Spending per Intervention USD % of total spending	0.12%	4.41%	%90.0	0.45%
Spending per Spending per Intervention USD % of total spending	136,232	5,207,305	66,961	529,974
Burden of Diseases Annual DALYs per 100,000	93,466	1,298	1,298	884
ICER	116	1,251	504	156
Cost effectiv eness and ranking	17	69	112	105
Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	Evaluation and management of fever in clinically unstable individuals using WHO IMAI guidelines, including empiric parenteral antimicrobials and antimalarials and resuscitative measures for septic shock	For individuals testing positive for hepatitis B and C, assessment of treatment eligibility by trained providers followed by initiation and monitoring of antiviral treatment when indicated	Hepatitis B and C testing of individuals identified in the national testing policy (based on endemicity and risk level), with appropriate referral of positive individuals to trained providers	Partner notification and expedited treatment for common STIs, including HIV
DCP 3 Code /UHC BP Platform	FLH18-FLH	HC19-FLH	нс20-Рнс	НС21-РНС

Jnit Cost/ Interven- Immediate/ tion Special \$ Initiatives	N	v	_
Unit Cost/ Interven- tion \$	4.37	2.67	40.05
Cost per capita PKR	0.07	1	85.52
Cost per capita \$	0.00	1	0.55
Budget Impact	Low	Low	High
Spending per Intervention USD % of total spending	%00:0	%00:0	2.01%
Spending per Spending per Intervention USD total spending	1,886		2,379,019
Burden of Diseases Annual DALYs per 100,000	2,182	599	884
ICER	429	386	1,081
Cost effectiv eness and ranking	111	120	46
Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	Provider-initiated testing and counselling for HIV, STIs, and hepatitis, for all in contact with health system in high-prevalence settings, including prenatal care with appropriate referral or linkage to care including immediate ART initiation for those testing positive for HIV	As resources permit, hepatitis B vaccination of high-risk populations, including healthcare workers, PWID, MSM, household contacts, and persons with multiple sex partners	HC25-PHC Provision of voluntary medical male circumcision service in settings with high prevalence of HIV
DCP 3 Code /UHC BP Platform	нс23-Рнс	HC24-FLH	НС25-РНС

Unit Cost/ Interven- Immediate/ tion Special \$ Initiatives	_	_	S
Unit Cost/ Interven- tion \$	20.19	92.76	2.46
Cost per capita PKR	0.17	0.91	1
Cost per capita \$	0.00	0.01	1
Budget Impact	Low	Low	Low
Spending per Spending per Intervention USD % of total spending	%00:0	0.02%	%00.0
Spending per Intervention USD	4,847	25,246	,
Burden of Diseases Annual DALYs per 100,000	3,803	3,803	310
ICER	271	56	4
Cost effectiv eness and ranking	25	104	103
Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster
Full Name of Intervention	For PLHIV and children under five who are close contacts or household members of individuals with active TB, perform symptom screening and chest radiograph; if there is no active TB, provide isoniazid preventive therapy according to current WHO guidelines	Diagnosis of TB, including assessment of rifampicin resistance using rapid molecular diagnostics (UltraXpert), and initiation of first-line treatment per current WHO guidelines for drug-susceptible TB; referral for confirmation, further assessment of drug resistance, and treatment of drug-resistant TB	HC28-COM Screening for HIV in all individuals with a diagnosis of active TB; if HIV infection is present, start (or refer for) ARV treatment and HIV care
DCP 3 Code /UHC BP Platform	нс26-РНС	нс27-Рнс	HC28-CON

Jnit Cost/ Interven- Immediate/ tion Special \$ Initiatives	_	×	_	_	_	S
Unit Cost/ Interven- I tion \$	4.20	8.58	4.90	99.0	0.78	1.08
Cost per capita PKR	1.38	1	34.16	1	72.74	92.30
Cost per capita \$	0.01		0.22		0.47	09:0
Budget Impact	Low	Low	Medium	Low	High	High
Spending per Intervention USD % of total spending	0.03%	%00.0	0.80%	%00.0	1.71%	2.17%
Spending per Spending per Intervention USD total spending	38,321	1	950,272	-	2,023,529	2,567,805
Burden of Diseases Annual DALYs per 100,000	93,466	2,469	2,469	2,469	3,803	11,593
ICER	1,082	286	1,082	318	3,571	1,082
Cost effectiv eness and ranking	65	107	49	110	84	56
Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	Infectious Disease Cluster	NCD & IPC
Full Name of Intervention	Evaluation and management of fever in clinically stable individuals using WHO IMAI guidelines, with referral of unstable individuals to first-level hospital care	Provision of insecticide-treated nets to children and pregnant women attending Health Centre	Identify and refer to higher levels of health care patients with signs of progressive illness	Conduct larviciding and water- management programs in high malaria transmission areas where mosquito breeding sites can be identified and regularly targeted	Systematic identification of individuals with TB symptoms among high-risk groups and linkage to care ("active case finding")	WASH behaviour change interventions, such as communityled total sanitation
DCP 3 Code /UHC BP Platform	нсзо-рнс	нсз2-рнс	нсзз-рнс	C34-PHC	P5-COM	C51-COM

Immediate/ Special Initiatives	S	_	×	I DHQ Only	_	-
Unit Cost/ Interven- tion \$	429.07	81.44	620.43	267.52	30.13	9.93
Cost per capita PKR	268.81	69.50	43.73	2.67	0.05	1.31
Cost per capita \$	1.73	0.45	0.28	0.02	0.00	0.01
Budget Impact	High	High	High	Low	Low	Low
Spending per Intervention USD % of total spending	%88.9	1.64%	1.03%	%90'0	%00:0	0.03%
Spending per Intervention USD % of total spending	7,478,155	1,933,412	1,216,508	74,409	1,403	36,313
Burden of Diseases Annual DALYs per 100,000	5,401	2,882	53	183	1,420	14,102
ICER	4,593	15,714	3,857	457	1,082	1,082
Cost effectiv eness and ranking	88	97	87	35	55	58
Cluster	NCD & IPC	NCD & IPC	NCD & IPC	NCD & IPC	NCD & IPC	NCD &
Full Name of Intervention	Management of acute coronary syndromes with aspirin, unfractionated heparin, and generic thrombolytics (when indicated)	Management of acute exacerbations of asthma and COPD using systemic steroids, inhaled beta-agonists, and, if indicated, oral antibiotics and oxygen therapy	Medical management of acute heart failure	Management of bowel obstruction	Management of intoxication/ poisoning syndromes using widely available agents; e.g., activated charcoal, naloxone, bicarbonate, antivenom	Long-term combination therapy for persons with multiple CVD risk factors, including screening for CVD in community settings using non-labbased tools to assess overall CVD risk
DCP 3 Code /UHC BP Platform	FLH20-FLH	FLH22-FLH	FLH23-FLH	FLH24-FLH	FLH30-FLH	ЭНСЗӨ-РНС

Juit Cost/ Interven- Immediate/ tion Special \$ Initiatives	– ТНQ А, DНQ	I DHQ Only	_	_	_	_	_	I ТНQ А, DНQ	_	_
Unit Cost/ Interven- tion \$	378.07	402.29	343.42	221.13	304.47	384.42	80.20	354.17	310.39	84.88
Cost per capita PKR	56.08	46.77	20.69	33.90	25.67	1.37	24.86	18.35	6.01	0.33
Cost per capita \$	0.36	0:30	0.13	0.22	0.17	0.01	0.16	0.12	0.04	0.00
Budget Impact	High	High	Low	Medium	Medium	Low	Medium	Low	Low	Low
Spending per Intervention USD % of total spending	1.32%	1.10%	0.49%	%08.0	%09'0	0.03%	0.59%	0.43%	0.14%	0.01%
Spending per Spending per Intervention USD total spending	1,560,129	1,300,981	575,517	943,011	714,195	38,042	691,644	510,431	167,299	9,150
Burden of Diseases Annual DALYs per 100,000	10,870	296	7,253	805	168	224	9,633	10,870	10,870	11,398
ICER	410	529	529	743	486	74	1,082	20	33	1,082
Cost effectiv eness and ranking	30	39	38	42	37	13	50	2	2	54
Cluster	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services
Full Name of Intervention	Irrigation and debridement of open fractures	Management of septic arthritis	Placement of External Fixation and Use of Traction for Fractures	Relief of urinary obstruction by catheterization or suprapubic cystostomy	Removal of gallbladder including emergency surgery	Repair of perforations (for example, perforated peptic ulcer, typhoid ileal perforation)	Resuscitation with advanced life support measures, including surgical airway	Trauma laparotomy	Trauma-related amputations	Tube thoracostomy
DCP 3 Code /UHC BP Platform	FLH39-FLH	FLH41a- FLH	FLH41b- FLH	FLH42-FLH	FLH43-FLH	FLH44-FLH	FLH45-FLH	FLH48a- FLH	FLH49-FLH	FLH50-FLH

Jnit Cost/ Interven- Immediate/ tion Special \$ Initiatives	-	I RHC only	_	I RHC only	_	_	_	_	I RHC only	I RHC only
Unit Cost/ Intervention \$	8.69	19.37	22.29	14.56	16.03	13.47	1.65	2.83	25.38	8.77
Cost per capita PKR	0.53	2.31	2.66	1.74	6.55	1.62	0.04	1.54	2.58	4.30
Cost per capita \$	0.00	0.01	0.02	0.01	0.04	0.01	0.00	0.01	0.04	0.03
Budget Impact	Low	Low	Low	Low	Low	Low	Low	мо	Гом	Low
Spending per Intervention USD % of total spending	0.01%	0.05%	%90.0	0.04%	0.15%	0.04%	%00'0	0.04%	0.13%	0.10%
Spending per Spending per Intervention USD % of total spending	14,606	64,242	73,923	48,294	182,107	45,147	1,104	42,721	155,211	119,710
Burden of Diseases Annual DALYs per 100,000	341	307	307	83	24	10,870	6,633	10,870	83	13,638
ICER	800	1,000	1,082	2,543	2,159	1,082	1,082	1,082	6,644	1,082
Cost effectiv eness and ranking	44	45	64	77	75	63	61	29	93	48
Cluster	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services	Health Services
Full Name of Intervention	Compression therapy for amputations, burns, and vascular or lymphatic disorders	Dental extraction (PHC)	HC57b-FLH Dental extraction (FLH)	Drainage of dental abscess (PHC)	Drainage of superficial abscess	Management of non-displaced fractures	Resuscitation with basic life support measures	Suturing laceration	. Treatment of caries	Basic management of musculoskeletal and neurological injuries and disorders, such as prescription of simple exercises and sling or cast provision
DCP 3 Code /UHC BP Platform	FLH52-FLH	нс57а-РНС	HC57b-FLF	НС58а-РНС	нс59-рнс	ЭНА-09ЭН	НС61-РНС	нсе2-рнс	НС63а-РНС	нс64-РНС

DCP 3 Code /UHC BP Platform	Full Name of Intervention	Cluster	Cost effectiv eness and ranking	ICER	Burden of Diseases Annual DALYs per 100,000	Spending per Spending per Intervention USD % of total spending	Spending per Intervention USD % of total spending	Budget Impact	Cost per capita \$	Cost per capita PKR	Unit Cost/ Interven- tion \$	Init Cost/ nterven- Immediate/ tion Special \$ Initiatives
НС68-РНС	HC68-PHC Health centre pathology services	Health Services	62	1,082	2,469	214,838	0.18%	Low	0.05	7.72	22.14	×
RH14-FLH	RH14-FLH Cataract extraction and insertion of intraocular lens	Health Services	83	3,143	196	8,898,528	%85.7	High	2.06	319.87	242.94	I DHQ Only
FLH37a- FLH	Hernia repair including emergency surgery	Health Services	89	1,086	93	629,590	%00'0	Low	0.15	22.63	240.15	I DHQ Only

Essential Package of Health Services of AJK

Note: Health System cost at district level is included

LEGENDS			
	Strong and positive evidence		Intervention recommended for Immediate implementation
	Medium positive evidence		Intervention recommended for implementation through Special initiative
	Weak positive evidence	×	Not an immediate priority OR covered in other intervention/s

Localised Evidence for 22 Prioritized Interventions in Tertiary Hospital EPHS

Immediate / Special Initiatives	_	_	_	_	_	_	_	_
Unit Cost/ Interven tion \$	236.76	497.65	230.43	406.99	311.08	331.15	789.13	1,077.50
Cost per capita PKR	1	16.39	0.37	186.16	131.18	1.40	11.39	96.87
Cost per capita \$	1	0.106	0.002	1.201	0.846	0.009	0.073	0.625
Budget Impact	Low	High	Low	High	High	Low	High	High
Spending per Intervention USD % of total spending	%0:0	3.6%	0.1%	40.7%	28.7%	0.3%	2.5%	21.2%
Spending per Interventi on USD	ı	455,988	10,194	5,178,809	3,649,277	38,847	316,916	2,694,737
Burden of Diseases Annual DALYs per 100,000	296	2,006	93	296	7,253	10,870	3,803	93,466
ICER	2,186	286	17	799	529	20	1,082	1,082
Cost effectiven ess and ranking	16	8	1	8	5	2	11	10
Cluster	NCD & IPC	Health Services	Health Services	Health Services	Health Services	Health Services	Infectious Disease Cluster	Infectious Disease Cluster
Full Name	Calcium and vitamin D supplementation for secondary prevention of osteoporosis	Craniotomy for Trauma	Hernia Repair Including Emergency Surgery for neonates and infants	Management of osteomyelitis, including surgical debridement for refractory cases	Placement of External Fixation and Use of Traction for Fractures of Children	Trauma laparotomy in children	Specialized TB services, including management of MDR- and XDR-TB treatment failure & surgery for TB	Management of refractory febrile illness including etiologic diagnosis at reference microbiological laboratory
DCP 3 Code	FLH25	FLH33	FLH37b	FLH40	FLH41c	FLH48b	RH2	RH3

Immediate / Special Initiatives	_	_	_	_
Unit Cost/ Interven tion \$	48.18	2.75	411.42	2,086.46
Cost per capita PKR	0.21	1	1	1
Cost per capita \$	0.001	1	ı	ı
Budget Impact	Low	Low	Low	Low
Spending per Intervention USD % of total spending	%0.0	%0:0	%0:0	%0:0
Spending per Interventi on USD	5,720	1	1	ı
Burden of Diseases Annual DALYs per 100,000	2,882	2,536	5,401	1,070
ICER	15,714	314	962	9,286
Cost effectiven ess and ranking	15	16	16	20
Cluster	NCD &	NCD & IPC	NCD & IPC	NCD & IPC
Full Name	Management of acute ventilatory failure due to acute exacerbations of asthma and COPD; in COPD use of bilevel positive airway pressure preferred	Retinopathy screening via telemedicine, followed by treatment using laser photocoagulation	Use of percutaneous coronary intervention for acute myocardial infarction where resources permit	Treatment of early-stage breast cancer with appropriate multimodal approaches (including generic chemotherapy), with curative intent, for cases that are detected by clinical examination at Health Centre
DCP 3	RH4	RH5	вн6	RH7

Immediate / Special Initiatives	_	_	_	_
Unit Cost/ Interven tion \$	640.73	2,364.42	383.83	282.40
Cost per capita PKR	0.98		1	6.80
Cost per capita \$	0.006	1	1	0.044
Budget Impact	Low	Low	Low	High
Spending per Intervention USD % of total spending	0.2%	%0.0	%0.0	1.5%
Spending per Interventi on USD	27,352	1	1	189,300
Burden of Diseases Annual DALYs per 100,000	246	2,434	10,870	10,870
ICER	1,071	1,571	157	529
Cost effectiven ess and ranking	6	21	16	9
Cluster	NCD &	NCD &	NCD & IPC	NCD & IPC
Full Name	Treatment of early-stage colorectal cancer with appropriate multimodal approaches (including generic chemotherapy), with curative intent, for cases that are detected by clinical examination at Health Centre	Treatment of early-stage childhood cancers (such as Burkitt and Hodgkin lymphoma, acute lymphoblastic leukaemia, retinoblastoma, and Wilms tumour) with curative intent in paediatric cancer units or hospitals	Elective surgical repair of common orthopaedic injuries (for example, meniscal and ligamentous tears) in individuals with severe functional limitation	Urgent, definitive surgical management of orthopaedic injuries (for example, by open reduction and internal fixation)
DCP 3 Code	RH8	RH9	RH10	RH11

Immediate / Special Initiatives	_	_	-	_	-	_
Unit Cost/ Interven tion \$	824.18	152.26	369.21	404.19	396.54	218.67
Cost per capita PKR	0.11	1.18	0.42	0.37	ı	3.74
Cost per capita \$	0.001	0.008	0.003	0.002	-	0.024
Budget Impact	Low	Low	Low	Low	Low	Medium
Spending per Intervention USD % of total spending	%0:0	0.3%	0.1%	0.1%	%0:0	%8.0
Spending per Interventi on USD	3,127	32,827	11,701	10,196	-	104,094
Burden of Diseases Annual DALYs per 100,000	60	143	304	£09	263	102
ICER	11,286	474	1,082	1,082	226	529
Cost effectiven ess and ranking	14	4	11	11	22	9
Cluster	NCD & IPC	NCD &	Health Services	Health Services	Health Services	Health Services
Full Name	Repair of cleft lip and cleft palate	Repair of club foot	Repair of anorectal malformations and Hirschsprung's Disease	Repair of obstetric fistula	Insertion of shunt for hydrocephalus	Surgery for trachomatous trichiasis
DCP 3 Code	RH12	RH13	RH15	RH16	RH17	RH18

Essential Package of Health Services of AJK

Note: Health System cost at district level is included

LEGENDS			
	Strong and positive evidence		Intervention recommended for Immediate implementation
	Medium positive evidence		Intervention recommended for implementation through Special initiatives
	Weak positive evidence	×	Not an immediate priority OR cost included in other intervention/s

10 Prioritized Interventions at Population Level

			Unit Cost
Code	Intervention	Cluster	\$ /Capita
P1-P1	Mass media messages concerning sexual and reproductive health and mental health for adolescents (Also included in HIV and Mental health packages of services)	RMNCH	0.95
P2-P2	Mass media messages concerning healthy eating or physical activity (Also included in CVD and Musculoskeletal packages of services)	RMNCH	0.95
C25-P3	Education campaign for the prevention of gender-based violence	RMNCH	0.95
P4-P4	Mass media encouraging use of condoms, voluntary medical male circumcision and STI testing	RMNCH	0.95
P6-P5	Sustained integrated vector management for effective control of visceral Leishmaniasis, dengue, chikungunya, CCHF, and other nationally important causes of non-malarial fever vector borne NTDs	Infectious Disease Cluster	0.96
P13-P6	Mass media messages concerning awareness on handwashing and health effects of household air pollution	Infectious Disease Cluster	0.95
P7-P7	Conduct a comprehensive assessment of International Health Regulations (IHR) competencies using the Joint External Evaluation (JEE) tool	Infectious Disease Cluster	0.02
P11-P9	Develop plans and legal authority for curtaining interactions between infected persons and un-infected population and implement and evaluate infection control measures in health facilities	Infectious Disease Cluster	0.55
P8-P10	Conduct simulation exercises and health worker training for outbreak events including outbreak investigation, contact tracing and emergency response	Infectious Disease Cluster	0.05
P3-P12	Mass media messages concerning use of tobacco (Also included in CVD package of services)	NCD & IPC	0.95

 Cost of Population level interventions is very high in AJ&K and these interventions are not recommended to be executed alone by the Health Department, AJ&K. Partnership with other provinces, development partners or federal government can bring down the unit cost significantly.

HEALTHCARE DELIVERY SYSTEM IN AJ&K

AJ&K public healthcare delivery system functions as an integrated health complex that is administratively managed at the district level. The government provide healthcare through a three-tiered healthcare delivery system and community-based interventions. The former includes Basic Health Units (BHU), and Rural Health Centres (RHC) forming the core of the primary healthcare centres. Secondary care including first and second referral facilities providing acute, ambulatory and inpatient care is provided through Tehsil Headquarter Hospitals (THQs), and District Headquarter Hospitals (DHQs), which are supported by Tertiary Care mostly annexed with teaching hospitals. Services are augmented through a range of public health programmes/ interventions through healthcare delivery system and through population level interventions.

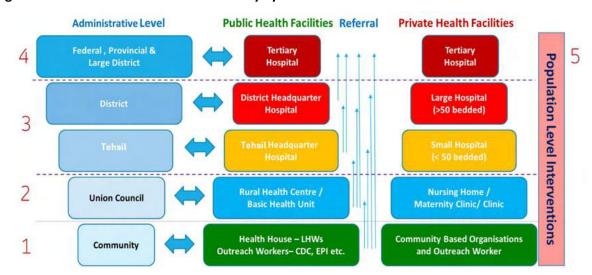


Figure: Public & Private Healthcare Delivery System in AJ&K

The private healthcare system constitutes of for-profit and not-for-profit (NGOs and CBOs) and constitutes a diverse group of doctors, nurses, pharmacists, traditional healers, drug vendors, as well as laboratory technicians, shopkeepers and unqualified practitioners. The private healthcare delivery system includes clinics, maternity clinics, nursing homes, small hospitals (less than 50 bedded) and large hospitals (more than 50 bedded) and tertiary care from private teaching hospitals. Diagnostic facilities and the sale of drugs from pharmacies are also a part of this system. In some cases, the distinction between public and private sectors is not very clear as many public sector practitioners also practice privately.

Whereas, primary, promotive and preventive health services are largely offered by the public sector, the focus of private sector is generally on the curative care services, with bias towards urban areas.

A brief introduction of different types of District level healthcare delivery system is provided below:

Community based healthcare delivery system

At the household level, services are provided through community-based health providers including Lady Health Workers (LHWs), Community Midwives (CMWs) and workers for community-based organizations (e.g., for provision of HIV & AIDS preventive services). In addition, there are also outreach workers including Lady Health Supervisors, Vaccinators, Population Welfare Councillor, CDC/Sanitary patrol, etc, and have been accounted for as PHC centre staff. Health posts managed by non-trained staff also exist in AJ&K for provision of medicines or basic care.

Lady Health Workers (LHWs)

Lady Health Worker (LHW) is a community-based worker and the LHWs Programme was launched nationwide in 1994. LHW is responsible to register households in her community of around 150-200 households (an average of 1,000-1,500 people) and offer primary, preventive, promotive and some curative care services. Catchment population in AJ&K is somewhat low considering geographical terrain in the area. LHW is required to visit at least 7-12 households each day to ensure that all registered households are visited at least once every month. During household visit she provides services including health education, counselling, motivation and community organization. She promotes and offer family planning services, maternal and adolescent healthcare, child healthcare including immunization and nutrition services, treatment of common ailments etc.

The LHW's house is designated as a **Health House**, where she is expected to establish a 'kit corner' to provide counselling and treatment services to those visiting her for advice. The LHW's house may also serves as a vaccination post to vaccinate women and children in coordination with the area vaccinator. LHW is responsible to organize her community by forming health committee and women's groups. LHW submits her monthly report in the monthly 'continuing education' meeting at the health facility. She is replenished with medicines and supplies consumed during last month.

Community Midwives (CMWs)

Community Midwives (CMWs) were introduced through the National Maternal, New-born and Child Health (MNCH) Programme in 2006. CMW is responsible to provide individualized care to the pregnant women throughout the maternity cycle and the new-born and ensure skilled birth attendance for home deliveries or at work/ birthing station established by her. The catchment population for a CMW is around 5000. In some areas, Lady Health Visitors (LHV), mostly based at PHC centre, also offer home-based delivery services. Considering rapidly increasing institutional deliveries across the country, the need for community midwives is less comparatively in large urbanized districts. Whereas in remote and socio-economically poor districts, this is among the few options to ensure skilled birth attendance.

Community based services to prevent HIV & AIDS

Community based services are also offered through workers of community-based organizations in HIV & AIDS high-risk populations to ensure provision of preventive services. These services are usually offered to injecting drug users, sex workers, bridging population etc. Considering low burden of HIV& AIDS in AJ&K, such services do not exist at this stage.

In addition, community level services are also offered by the <u>out-reach workers</u> including Vaccinators, Health and Population Welfare Councillors, Environmental technicians, Lady health supervisors and other health staff. For some interventions, other volunteers also contribute to delivery of services e.g., polio campaign, deworming campaign, Vit A supplementation, etc. Nomenclature varies in different provinces/areas. Activities related to out-reach workers have been accounted for mostly at the community & PHC centre level.

Primary healthcare centre level health system

There are different types of primary healthcare centre level facilities in rural areas commonly known as Basic Health Unit (BHU), BHU Plus and Rural Health Centre (RHC), while in urban areas, comparable types of PHC facilities are Dispensary, Medical/ MCH centre while in private sector different types of comparable PHC facilities are General Physician (GP) Clinic, Medical centre and Nursing/ maternity homes etc.

A brief explanation of three types of PHC centre facilities in public and private sector are as following:

Basic Health Unit/Dispensary/General Practitioner Clinic

Dispensary is the oldest type of a primary healthcare facility mainly in urban areas. After Alma Ata, Basic Health Units (BHUs) were established country wide, mainly in rural areas, to work as the first formal point of contact to access primary healthcare services. Ideally, each Union Council or Ward (lowest administrative unit) should have one PHC centre usually serving a population of around 5,000 to 25,000. Usually, these health facilities offer basic primary healthcare services, which include provision of static and outreach services for maternal & childcare, immunization, family planning, management of diarrhoea, pneumonia, control of communicable diseases and management of common ailment along with health education activities. These facilities are also responsible for provision of management and logistic support to LHWs and other community-based service providers. These facilities offer services usually 8 hours/ 6 days a week.

24/7 BHU / MCH Centre / Medical Centre

With increasing population and to ensure 24/7 delivery services, the concept of 24/7 BHU emerged. In comparison to BHU, 24/7 BHU is envisaged to provide wider range of services including round the clock delivery services. 24/7 BHU is envisaged to serve a catchment population of 25,000 – 40,000. It is important to offer wide range of services, infrastructure, human resources, equipment and supplies should also be ensured at the facility. Already MCH centres and private clinics are offering such services round the clock.

Rural Health Centre / Health Centre / Nursing Homes

Rural Health Centre (RHC) functions around the clock and serve a catchment area population of 40,000–60,000, providing a comprehensive range of primary health care services and basic indoor facilities. The services envisaged to be provided at RHC include health education services, general treatment services, Basic Emergency Obstetric & New-born Care (BEmONC) services, emergency services such as management of injuries, accident, selected surgical services such as stitching, abscess drainage, circumcision etc. and first aid services to stabilize the patient in emergency conditions and refer them to higher level of care in case of complications. RHCs also provide clinical, logistical and managerial support to the BHUs, LHWs, MCH Centres, and Dispensaries that fall within its geographical limits. RHC provides basic surgical, dental and ambulance services. RHCs are equipped with laboratory and X-ray facilities and a 10-20 bedded inpatient facility. Around 5-8 BHUs are linked with the RHC for referral and other administrative purposes.

Equivalent to RHC, there are private sector Health Centre, Nursing or Maternity homes mostly in urban areas and sometimes offer wider range of services including specialized services.

First level hospital health system

First level hospital refers to the intermediate level of medical care that is provided by a specialist or facility upon referral from primary care and is designed to provide technical, therapeutic and diagnostic services. It requires more specialized knowledge, skills, and equipment than the primary care professional. Services are offered 24/7. Basic specialist consultation and hospital admissions fall into this category. First level hospitals include Tehsil Head Quarters (THQs), and District Head Quarter (DHQs) in public sector. The services provided at the hospitals are primarily curative in nature. Administratively, these hospitals are run by senior doctors or medical superintendents who oversee medical staff that comprises specialists, doctors, nurses, paramedics and other technicians.

Private hospital less than 50 beds are considered to be equivalent to THQ hospital while private hospitals having bed capacity more than 50 are equivalent to DHQ hospital.

Tehsil Head Quarter (THQ) hospital / 50 bedded Private hospitals

The catchment population of THQ hospital is the population of that Tehsil and may vary from 60,000 to 1-1.5 million people. There are three types of THQ hospitals in AJ&K – Type A, Type B and Type C with varying hospital beds capacity. Hospital beds in THQ hospital ranges from 10-100 depending upon the size of Tehsil. THQ hospital is supposed to provide basic (and sometimes Comprehensive Emergency Obstetrics and New-born Care (CEmONC), along with basic medical and surgical services. THQ hospital also provides services to those patients who are referred by RHCs, BHU, LHWs and CMWs.

District Head Quarters (DHQ) hospital / >50 bedded Private hospitals

DHQ hospital serves the whole population of a district and population may vary from 1-3 million or more. Number of hospital beds range from 100-300 or more. DHQ hospitals are supposed to provide specialized curative care, diagnostics, inpatient and referral services. DHQ hospital provides services to patients referred by LHWs, CMWs BHUs, RHCs and THQ hospitals.

Tertiary hospital (Public/ Private)

A tertiary referral hospital provides tertiary care, which is a level of health care obtained from specialists in a large hospital after referral from the providers of primary care and secondary care. Tertiary hospital that usually has a full complement of services including paediatrics, obstetrics, general medicine, gynaecology, various branches of surgery and psychiatry. Specialty hospital are dedicated to specific sub-specialty care (paediatric centres, oncology centres, psychiatric hospitals). Patients will often be referred from smaller hospitals to a tertiary hospital for major operations, consultations with sub-specialists and when sophisticated intensive care facilities are required.

Tertiary hospital may also be attached with a Medical Teaching Institute. Tertiary hospitals are not present in all districts but in districts with large population and also serve the neighbouring districts. There are limited number of Tertiary hospitals in AJ&K where scope of specialised services is also limited. Although situation is gradually improving, people in AJK have to seek specialized tertiary care from other provinces and Islamabad.

Population level

Federal and Provincial/Area governments also carry out some interventions which benefit the whole population. Population-level health interventions are policies or interventions that shift the distribution of health risk by addressing the underlying social, economic and environmental conditions. These interventions might be policies designed and developed in the health sector, but may be implemented in sectors elsewhere, such as media or education.

DISTRICT LEVEL ESSENTIAL PACKAGE OF HEALTH SERVICES

(Community, PHC Centre and First Level Hospital)

UHC Benefit Package/ Essential Package of Health Services (EPHS) offers a futuristic vision in the health sector to set strategic direction and accordingly implement prioritized interventions to make progress on achieving Universal Health Coverage/ health-related Sustainable Development Goals.

Based on the evidence informed process outlined above, minimum of 96 interventions out of 218 recommended interventions by the DCP3/ 151 generic national EPHS were prioritized for immediate implementation by stakeholders to be included in the AJ&K District level EPHS at the Community, PHC centre and First Level Hospital. Remaining interventions were identified as high priority to be implemented provided resources are available, whereas 12 were identified to be implemented through special initiatives with additional support of national and/or provincial governments and partners. Other interventions can also be offered once EPHS interventions are fully offered.

The immediate, high priority and special initiative interventions are categorized to four clusters (i: RMNCAH&N cluster; ii: Infectious diseases cluster; iii: Non-communicable disease cluster; and iv: health services access cluster). However, for ease of understanding, some interventions have been merged or broken down further. After that these interventions were re-classified according to lifecycle approach into following 12 categories:

- 1. Reproductive health/ birth spacing
- 2. Antenatal care
- 3. Delivery care
- 4. Post-natal care
- 5. New-born care
- 6. Nutrition
- 7. Child care
- 8. School age child care
- 9. Adolescent health
- 10. Infectious diseases
- 11. Non-communicable diseases
- 12. Health services access

First nine categories are part of RMNCH/ life cycle cluster. The description in the following section reflects the prioritized set of District level EPHS interventions:

EPHS at Community level

The package of services that are being proposed at the community level reflect the community needs, burden of disease, cost-effectiveness of interventions and the contextual factors to ensure delivery of efficient, effective and quality services at the doorstep. The health care workers, service providers and community-based organizations will provide the proposed services in the communities. Service providers include Lady Health Workers, Community midwives, Lady Health Visitor, Population Welfare Councillor and workers of Community-Based Organizations. These frontline workers also get backup support from the out-reach workers including CDC/Environmental Technicians, Vaccinators, Lady Health Supervisors and other health facility staff. The interventions among twelve categories are provided in the following box.

COMMUNITY LEVEL INTERVENTIONS

Reproductive Health/ Birth spacing

- Education and counselling on birth spacing during antenatal and post-natal care (LHW, CMW, LHV)
- Provision of condoms, hormonal pills and injectable contraceptives (LHW, CMW, LHV)
- Referral and linkages for IUCD insertion (LHW)
- Referral and linkages for surgical contraceptive methods (LHW)

Antenatal Care

- Counselling on providing thermal & kangaroo care to newborn (LHW, CMW, LHV)
- Counselling on breastfeeding and growth monitoring (LHW, CMW, LHV)
- Monthly monitoring of pregnant women using MCH card and referral to Skilled birth attendant (LHW)
- Nutrition counselling and provision of Iron and folic acid to pregnant women (LHW)
- Referral/ immunization for TT immunization (CBAs and Pregnant women) (LHW, CMW)
- Screening for hypertension during pregnancy and immediate referral (LHW, CMW. LHV)

Delivery Care

- Referral to skilled birth attendant for low risk labour and delivery (LHW)
- Identification of danger signs and referral to BEMONC or CEMONC facility considering complications (LHW, CMW, LHV)
- Low risk normal delivery (Only where CMW or LHV is available)

Post-Natal Care

- Use of PNC checklist for mother within 24 hours after delivery (LHW) +3 follow up visits for 40 days after delivery (LHW, CMW)
- Education and counselling on birth spacing during post-natal care and service provision/ referral (LHW, CMW)

New-born Care

- Use of PNC checklist for new-born within 24 hours after delivery (LHW) + care of new-born including care of cord (3 follow up visits) (LHW, CMW, LHV)
- Early initiation of breastfeeding (within % hour of birth) and initiation of growth monitoring (LHW, CMW, LHV)
- Ensuring thermal & kangaroo care to new-born (LHW)
- Ensure initiation of immunization for BCG and zero dose polio (LHW with support of area Vaccinator)

Nutrition

- Screening for malnutrition in children; growth monitoring, ensure provision of food supplements for moderately acute malnourished cases and refer severely acute malnourished cases to stabilization centre (LHW, PW councillor)
- Ensure provision of vitamin A (after National immunization days are stopped) and zinc supplementation (LHW, PW councillor, etc)
- Provision of micro-nutrients (iron and folic acid), ensure food supplementation to women/adolescent girls (LHW)
 Child care
- Community based integrated management of childhood illnesses (LHW); immediate referral for complications and danger signs and follow up visits (LHW, PW councillor)

- Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3,
 Pneumococcal 1,2,3, Rota 1,2, Measles 1,2) Typhoid vaccine from 2022 (LHW, PW councillor with support of Vaccinator)
- Education on handwashing and safe disposal of children's stool (LHW, PW councillor)

School age Child Care

- Education of schoolchildren on oral health (LHW, PW councillor)
- Vision pre-screening and referral to THQ if required (LHW, PW councillor)
- School based HPV vaccination of girls (vaccinator, LHV) after 2022-23 and through special initiative
- Drug administration against soil-transmitted helminthiasis (LHW, PW councillor, volunteer)

Adolescent Health

 Education and counselling for prevention of sexually transmitted infection, screening and referral (LHW)

Infectious Diseases

- Community based HIV testing, counselling and referral (In high risk groups by CBO worker)
- Provision of condoms and disposable syringes (In high risk groups by CBO worker)
- Health education on Hepatis B and C and referral of suspected cases (LHW, PW councillor)
- Health education on STI and HIV (LHW, CBO worker)
- Systematic screening and routine contact tracing exposed to Tuberculosis (LHW, CBO worker)
- Referral of malaria suspect (LHW, PW councillor)
- Conduct larvicidal and water management (LHW & PW councillor with backup support from CDC/ Environmental technician)
- Identification and referral of suspected cases of Dengue, Influenza, Trachoma etc. (LHW, PW councillor)
- Identification, reporting and referral of notifiable diseases (LHW, PW councillor and CDC/ Environmental technician) -Conduct simulation exercises/ training

Non-Communicable Diseases

- Exercise based pulmonary rehabilitation of COPD (LHW)
- Screening for hypertension (LHW)
- Health education on CVD prevention (LHW, PW councillor)
- Health education on Diabetes (LHW, PW councillor)
- Self-managed treatment of migraine (LHW)
- Clap test for screening of congenital hearing loss among newborn and referral (LHW)
- WASH behaviour changes interventions (LHW, PW councillor with backup support from CDC/ Environmental technician)

Health Services Access

- Health education on dental care (LHW, PW councillor)
- Health education scabies, lice and skin infections (LHW, PW councillor)
- First aid, dressing and care of wounds and referral (LHW)
- Identification and screening of early childhood development issues and referral (LHW)
- Basic management of musculoskeletal injuries and disorders and referral (LHW)

EPHS at PHC centre level

The prioritized interventions are again based on the life-cycle approach which should be offered at the PHC centre. However, scope of interventions will vary considering different types of PHC centre. The following box reflect the essential services across different types of PHC centres.

	PHC CENTRE LEVEL	INTERVENTIO	NS	
			Yes / No	
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
	Reproductive Healt	h/ Birth Spacing		rearsing frome (1 ve)
1.	Education and counselling on birth spacing during antenatal and post-natal / post abortion care	Yes	Yes	Yes
2.	Provision of condoms, hormonal pills, emergency contraceptive pills and injectable contraceptives	Yes	Yes	Yes
3.	Insertion and removal of intrauterine device (IUD)	Yes	Yes (12/7)	Yes (24/7)
4.	Surgical contraceptive methods	Yes	Yes	Yes
		(Referral and Linkages)	(Referral and Linkages)	(Organize mini- lap camps and referral)
	Antenata	l care		
5.	Counselling on providing thermal & kangaroo care to newborn	Yes	Yes	Yes
6.	Counselling on breastfeeding and growth monitoring	Yes	Yes	Yes
7.	Monitoring of pregnant women using MCH card (at least 4-8 ANC visits)	Yes	Yes (12/7)	Yes (24/7)
8.	Nutrition counselling and provision of Iron and folic acid to pregnant women	Yes	Yes	Yes
9.	Immunization against tetanus (CBAs and Pregnant women)	Yes	Yes	Yes
10.	Screening and care/ referral for hypertensive disorders in pregnancy	Yes	Yes (24/7 Care & referral)	Yes (24/7 Care & referral)
11.	Diabetes care in pregnancy	Yes	Yes	Yes
		(Only screening and Referral)	(Screening and Referral for	(Screening and Referral for
			diabetes care in pregnancy)	diabetes care in pregnancy)
	Delivery	Care		
12.	Low risk Labour and Delivery	No	Yes	Yes
		(Only Referral)	(24/7 services for low-risk labour & delivery and basic neonatal resuscitation (Availability of seven signal functions for BEMONC)	(Services for low- risk labour / delivery and managing complications; Basic neonatal resuscitation (Availability of seven signal functions for BEMONC)
13.	Identification and referral for complications and danger signs	Yes (Referral to 24/7 BEMONC or CEMONC facility)	Yes (24/7 Referral to CEmONC facility)	Yes (24/7 Referral to CEmONC facility)
14.	Management of premature rupture of membranes, including administration of antibiotic	No	Yes (referral)	Yes
15.	Management of miscarriage or post-abortion care	No	No	Yes

	PHC CENTRE LEVEL	INTERVENTIC	ONS	
			Yes / No	24/7 PHC (B)
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
	Post-Nata	al Care		
16. 17.	Post-natal care services +3 follow up visits Education and counselling on birth spacing during post- natal/ post abortion care	Yes Yes	Yes (12/7) Yes	Yes (24/7) Yes
	New-born	n Care		
18.	New-born care including care of cord (follow up visits)	Yes	Yes	Yes
19.	Early initiation of breastfeeding (within $\frac{1}{2}$ hour of birth) and initiation of growth monitoring	Yes	Yes	Yes
20.	Ensuring thermal & kangaroo care to new-born	Yes	Yes	Yes
21.	Initiation of immunization for BCG and zero dose polio	Yes	Yes	Yes
22	Nutrit		V (40/7))/ /2.4/ 7)
22.	Screening for malnutrition in children; growth monitoring, provision of food supplements for moderately acute malnourished cases and refer severely acute malnourished cases to stabilization centre	Yes	Yes (12/7)	Yes (24/7)
23.	Provision of vitamin A (after National immunization days are stopped) and zinc supplementation	Yes	Yes	Yes
24.	Provision of micro-nutrients (iron and folic acid) and food supplementation to women and adolescent girls	Yes	Yes	Yes
	Child C	Care		
25.	Integrated management of childhood illnesses; immediate referral for danger signs and follow up visits	Yes	Yes (12/7)	Yes (24/7)
26.	Childhood Vaccination (BCG, Polio 0,1,2,3, Penta 1,2,3, Pneumococcal 1,2,3, Rota 1,2, Measles 1,2)	Yes	Yes	Yes
27.	Education on handwashing and safe disposal of children's stool	Yes	Yes	Yes
	School-age C	Child Care		
28.	Education and counselling on oral health	Yes	Yes	Yes
29.	Vision pre-screening and referral if required	Yes	Yes	Yes
30.	Drug administration against soil-transmitted helminthiasis	Yes	Yes	Yes
31.	Adolescent Syndromic management of common sexual and reproductive tract infections	Yes	Yes	Yes
32.	Psychological treatment of depression, anxiety and disruptive behaviour disorders among adolescent; referral if required	Yes	Yes	Yes
33.	Post gender-based violence care including counselling and referral	No	No	Yes/No
	Infectious I	Diseases		
34.	HIV testing, counselling and referral for ART	No	No	Yes
35.	Hepatis B and C testing and referral	No (Only Health	Yes	Yes
36.	Partner notification and expedited treatment for STI and referral for HIV	education on Hepatis B and C) No (Only Health education on STI and HIV)	Yes	Yes
37.	Diagnosis and treatment of Tuberculosis (TB)	No (Only Referral of	Yes	Yes (Referral of MDR
38.	Screening of HIV in all individuals with a diagnosis of active TB	suspected cases) No	No	cases) Yes

	PHC CENTRE LEVEL	INTERVENTIC		
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	Yes / No 24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
39.	Screen for TB in all newly diagnosed PLHIV and close	No	No	Yes
40.	contacts Malaria-suspect to be diagnosed with RDT and treatment for positive cases	Yes	Yes	Yes (Pre-referral treatment in severe and complicated cases)
41.	Early detection and referral of Dengue and Trachoma cases	Yes	Yes	Yes
42.	Identification, reporting and referral of notifiable diseases (Conduct simulation exercises/ training)	Yes	Yes	Yes
	Non-Communica	hle Diseases		
43.	Low dose corticosteroid and bronchodilator for Asthma and selected COPD	Yes	Yes (12/7 with Nebulizer)	Yes (24/7 with Nebulizer)
44.	Cardiovascular risk factor screening using non-lab-based tools and regular follow up	Yes	Yes (12/7)	Yes (24/7)
45.	Provision of aspirin for suspected acute myocardial cases	Yes	Yes	Yes
46.	Screening of albumin urea kidney disease in diabetics	Yes	Yes	Yes
47.	Secondary prophylaxes with penicillin for Rheumatic fever	Yes	Yes	Yes
48.	Treatment of acute pharyngitis	Yes	Yes	Yes
49.	Self-managed treatment of migraine	Yes	Yes	Yes
50.	Support caregivers of patients with dementia	Yes	Yes	Yes
51.	Management of anxiety and depression disorders	Yes	Yes	Yes
52.	Calcium and Vit D supplementation for prevention of osteoporosis in high-risk individuals	Yes	Yes	Yes
53.	Screening of hearing loss using otoscope and basic management/ referral	Yes	Yes	Yes
54.	WASH behaviour changes interventions	Yes	Yes	Yes
	Health Servic	es Access		
55.	Dental Care	Yes	Yes	Yes
		(Dental pain and infection management)	(Basic Dental care)	(Treatment of caries, drainage of dental abscess, dental extraction)
56.	Drainage of superficial abscess (Treatment of scabies, lice and skin infections)	Yes	Yes (12/7)	Yes (24/7)
57.	Management of non-displaced fracture and referral	No	Yes (24/7)	Yes (24/7)
58.	Circumcision	No	Yes	Yes
59.	Suturing of small laceration	Yes	Yes (24/7)	Yes (24/7)
60.	Identification and screening of early childhood development issues	Yes	Yes	Yes
61.	Basic management of musculoskeletal injuries and disorders	Yes	Yes	Yes
62.	Laboratory Services	Yes	Yes	Yes
	•	(Basic and rapid diagnostic lab services)	(Essential PHC lab services including radiology)	(RHC level lab services + radiology)

The availability of laboratory and imaging services that are in compliance with the envisioned EPHS intervention package, is a key for effective provision of the EPHS interventions and reaching diagnosis prior to initiating treatment. The following table presents the laboratory tests and imaging services across the PHC health facilities.

	PHC CENTRE LEVEL LABORATORY	& DIAGNOSTI	C INTERVENTIC	ONS	
			Yes / No		
Sr. No.	Intervention	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)	
1.	Haemoglobin & Blood Complete Examination	Yes/No	Yes	Yes	
2.	Blood Glucose Testing	Yes	Yes	Yes	
3.	Lipid Profile	No	No	Yes	
4.	Liver Function Tests	No	Yes	Yes	
5.	Serum Uric Acid	No	Yes/No	Yes	
6.	Renal function Test (Such as Serum Urea & Creatinine)	No	Yes	Yes	
7.	Urine Chemistry (Qualitative and Quantitative Testing)	Yes	Yes	Yes	
		(Only Qualitative)			
8.	Onsite Malaria Testing	No	No	Yes	
9.	Malaria Rapid Diagnostic Test (RDT)	No	No	Yes	
10.	Gram Staining at facility	Yes/ No	Yes	Yes	
11.	Stool Microscopy at Facility	Yes / No	Yes	Yes	
12.	Onsite Tuberculosis Testing	No	Yes	Yes	
13.	X-Ray Services	No	Yes	Yes	
14.	ECG Services	No	Yes	Yes	
15.	Ultrasound	No	Yes	Yes	

EPHS at First Level Hospital

The prioritized interventions are/ should be offered at the FLH. However, scope of interventions will vary considering different types of FLH (Tehsil or District) in public and private sector. The following box reflect the essential services across different types of FLH.

FIRST LEVEL HOSPITAL INTERVENTIONS				
		Yes / No		
S	or. No. Intervention	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital	
	Reproductive Health/ Birth Spacing			
1.	Early detection and referral / treatment of early-stage cervical cancer	Yes	Yes	
2.	Insertion and removal of long-lasting contraceptives	Yes	Yes	
3.	Tubal ligations	No	Yes	
4.	Vasectomy	No	No	
	Antenatal care			
5.	Management of eclampsia with magnesium sulphate, including initial stabilization at health centres	Yes	Yes	
6.	Screening and management of diabetes in pregnancy (gestational diabetes or pre-existing type II diabetes)	Yes	Yes	
7.	Detection and management of foetal growth restriction	No	No	
	Delivery care			
8.	Surgical termination of pregnancy by maternal vacuum aspiration and dilatation & curettage	Yes	Yes	
9.	Management of labour and delivery in high-risk women, including operative delivery (CEMONC)	No	Yes	
10.	Management of maternal sepsis, including early detection at Health centre	No	Yes	
Postnatal care				
	(Follow up visit of complicated delivery cases)	Yes	Yes	
New-born care				
11.	Management of Neonatal sepsis, pneumonia and meningitis using injectable and oral antibiotics	No	Yes	
12.	Management of preterm premature rupture of membranes, including	Yes	Yes	

	FIRST LEVEL HOSPITAL INTERVENT	TIONS	
			/ No
S	r. No. Intervention	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private	District Headquarter Hospital / >50 bedded Private
	administration of antibiotics	Hospital	Hospital
13.	Management of new-born complications infections, meningitis,	No	Yes
	septicaemia, pneumonia and other very serious infections requiring		
	continuous supportive care (such as IV fluids and oxygen)		
14.	Full supportive care for preterm new-born	No	Yes
15.	17	Yes	Yes
	Nutrition		
	(Stabilization centres only in food-insecure districts)	-	Yes
	Child care		
16.	Full supportive care for severe childhood infections with danger signs	Yes	Yes
	Infectious diseases		
17.	For individuals testing positive for hepatitis B and C, assessment of	No	Yes
	treatment eligibility by trained providers followed by initiation and		
4.0	monitoring of ART when indicated	v	v
18.		Yes	Yes
10	enrolment of those with MDR-TB for treatment per WHO guidelines	No	Voc
19.	Evaluation and management of fever in clinically unstable individuals using WHO IMAI guidelines, including empiric parenteral antimicrobials and	No	Yes
	antimalarial and resuscitative measures for septic shock		
	Non-communicable diseases		
20		Vas	Vos
20.	Management of acute coronary exacerbations of asthma and COPD using systemic steroids, inhaled beta-agonists and if indicated oral antibiotics and	Yes	Yes
	oxygen therapy		
21	Management of acute coronary syndromes	No	Yes
22.	Medical management of acute heart failure	No	Yes
23.		Yes	Yes
	sensory, and language stimulation		
24.	Management of bowel obstruction	No	Yes
25.	Management of intoxication/ poisoning syndromes using widely available	No	Yes
	agents e.g., charcoal, naloxone, bicarbonate, antivenom		
	Health services access		
26.	Appendectomy	Yes	Yes
	Colostomy (Adult and Paediatrics) (Refer to tertiary hospital)	No	Yes
28.	Management of Bowel obstruction	No	Yes
29.	Escharotomy or fasciotomy	Type A only	Yes
30.	Fracture reduction & placement of external fixator and use of traction for fractures	Type A only	Yes
31.		Yes	Yes
32.	Irrigation and debridement of open fractures (Refer to tertiary hospital)	Type A only	Yes
33.	Management of septic arthritis	No	Yes
34.	Placement of external fixation and use of traction for fractures	Yes	Yes
35.	Relief of urinary obstruction by catheterization for fractures	Yes	Yes
36.	Removal of gallbladder, including emergency surgery	No	Yes
37.		No	Yes
	perforation)		
38.	Tube thoracostomy	Yes	Yes
39.	Trauma laparotomy	Type A only	Yes
40.	Trauma related amputations	Yes	Yes
41.	Compression therapy for amputations, burns, and vascular or lymphatic disorders	Yes	Yes
42.		No	Yes
42.	Cataract extraction and insertion of intraocular lens	INU	162

The availability of laboratory and imaging services that are in compliance with the envisioned EPHS intervention package, is a key for effective provision of the EPHS interventions and reaching diagnosis prior to initiating treatment. The following table presents the laboratory tests and imaging services across the FLH care facilities.

FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS			
		Yes / No	
S	r. No. Laboratory / Diagnostic Tests	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital
1.	Blood CP	Yes	Yes
2.	ESR	Yes	Yes
3.	Blood Culture & Sensitivity	No	Yes
4.	C-Reactive Protein	No	Yes
5.	Blood Grouping & Cross Matching	Yes	Yes
6.	Blood Smear	No	Yes
7.	Random and Fasting blood glucose	Yes	Yes
8.	Serum Electrolytes (Serum Potassium, sodium, Serum Magnesium)	Yes	Yes
9.	Serum Amylase, Lipase	No	Yes
10.	Creatinine Phosphokinase, Serum Lactate	No	Yes
11.	Serum Bilirubin	Yes	Yes
12.	Prothrombin time test, APTT, INR	Yes	Yes
13.	Blood Urea and Nitrogen	Yes	Yes
14.	Hepatitis B & C test	Yes	Yes
15.	Microscopy for malarial parasite	Yes	Yes
16.	Pregnancy Test	Yes	Yes
17.	Beta HCG	No	Yes
18.	Arterial Blood Gases	No	Yes
19.	LFTs	Yes	Yes
20.	RFTs	Yes	Yes
21.	Glucose-6-phosphate dehydrogenase (G6PD)	No	Yes
22.	Coomb's test	Yes	Yes
23.	Cardiac Troponin - T test	No	Yes
24.	Microscopy of Cerebral Spinal Fluid	Yes	Yes
25.	HIV Testing	Yes	Yes
26.	Urine Analysis	No	Yes
27.	Urine Culture & Microscopy test	Yes	Yes
28.	Urine Myoglobin	No	Yes
29.	Spot Urinary protein test	Yes	Yes
30.	High vaginal swab	No	Yes
31.	Semen analysis (sperm count)	Yes	Yes
32.	Lumbar Puncture	No	Yes
33.	Cytology (Pap smear or LBC) and Visual Inspection with Acetic acid (VIA)	No	Yes
34.	Molecular HPV testing	Yes	Yes
35.	Speculum, Vaginal & Rectal examination	No	Yes
36.	Intravenous pyelogram (IVP)	No	Yes
37.	Staining of smears for Ziehl-Neelsen or LED fluorescence microscopy	No	Yes
38.	APRI (AST-to-platelet ratio index)	No	Yes
39.	Liver Biopsy	No	Yes
40.	HBV & HCV Serological testing	Yes	Yes
41.	Nucleic Acid testing for HBV & HCV RNA	No	Yes
42.	line-probe assays (LPA) for direct detection of resistance mutations in acid- fast bacilli (AFB) smear-positive processed sputum samples	No	Yes
43.	Xpert MTB/RIF for use as the initial diagnostic test in individuals suspected of having MDR-TB	No	Yes
44.	 Phenotypic DST (conventional DST) Genotypic DST 	No	Yes
45	Gastric Lavage	Yes	Yes
46.	Pulse oximetry	Yes	Yes
	Ultra sound	Yes	Yes

FIRST LEVEL HOSPITAL LABORATORY & DIAGNOSTIC INTERVENTIONS Tehsil Headquarter District Headquarter Sr. No. Hospital / >50 bedded Private Hospital - A, B & C/ **Laboratory / Diagnostic Tests** <50 bedded Private Hospital Hospital 48. Chest X ray Yes Yes 49. ECG Yes Yes 50. Echo No Yes 51. CT Scan No Yes 52. CT scan with contrast No Yes 53. X-ray Abdomen erect Yes Yes 54. Radiograph of Limbs Yes Yes 55. Joint Fluid Aspirate No Yes 56. Fluid aspitrate gram stain and culture No Yes 57. Abdominal radiograph - erect and supine Yes Yes 58. Ambulatory Xray (Portable) Yes Yes 59. Ultrasound (to assess gestation age/IUGR) if needed Yes Yes 60. Measurement of the compartment pressure (if Tonometer or Doppler Yes No Ultrasound available) 61. Pelvic ultrasound (in case of ruptured uterus) Yes Yes 62. Peri-apical radiograph Yes Yes 63. Orthopantomogram No Yes 64. Anti-cyclic citrullinated peptide (anti-CCP) No Yes 65. Antinuclear antibody (ANA) No Yes 66. Rheumatoid factor (RF) No Yes 67. Uric acid Yes Yes 68. Electrophoresis No Yes 69. Blood test for sickle cell disease Yes Nο 70. DNA testing (thalassemia specific) Yes No 71. Thalassemia Test Yes No 72. (Serum iron or Serum ferritin) (thalassemia No Yes specific) 73. X-ray with a contrast material (barium X-ray) No Yes 74. Dynamic swallowing study No Yes 75. Fibreoptic endoscopic swallowing evaluation No Yes 76. Manometry No Yes 77. CD4 Testing No Yes 78. Clinical chemistry panels (Automated analyser) Yes No 79. RPR test for Syphilis No Yes 80. FNAC No Yes 81. Tissue Biopsy No Yes 82. H & E staining No Yes

Note: Blue ones are essential for immediate implementation

IMPLEMENTATION ARRANGEMENT

Essential Infrastructure for Community, PHC Centre and FLH Interventions

Following the finalisation of the package, protocols in the government were reviewed. The investment required in each type of facility was estimated to ensure the package is delivered at sufficient quality. Investment in infrastructure is primarily relevant for the PHC centre and FLH level interventions.

At community level, LHW is also envisaged to establish a kit corner in her house-declared as health house. The space is used to store medicines and supplies and give counselling or treat minor illnesses to those patients/ clients visiting health house. This place should also display relevant protocols and posters. LHW should be provided with the necessary equipment and MIS tools. The health house may also serve as a vaccination post.

For CMW, it is proposed that a room in her community will serve as her work station, which is a place where pregnant mothers will contact for consultation, examination and delivery. CMW conducts safe delivery either at the CMW work station or at the woman's home and give women to choose the place of delivery. Privacy and hygiene practices should be ensured with availability of essential equipment, kit and furniture etc.

With regards to the PHC centre, the following guidelines should preferably be followed especially in the public sector.

- The suggested land area for a BHU / BHU Plus is 10 kanal, while for a RHC 24 kanal land is required to ensure provision of all essential in-patient and outpatient services. Estimated construction cost of the building currently ranges from Rs.3,200 to 3,500 per square foot.
- In a RHC, 20 bedded indoor facility is recommended i.e. 10 bedded ward for male patients and 10 bedded ward for female patients. At the BHU Plus, there should be at least two bedded facility for institutional delivery.
- While choosing the location for a health facility, it should be ensured that the site has metal road access, electricity supply, adequate water supply, gas supply and communication lines for telephone/ mobile phone. The building should be built in a manner to ensure adequate sunlight and cross ventilation and as per government rules.
- The facility compound should have a boundary wall with gate and a facility sign board. A board with listed services, opening times and emergency contacts during closing times should be displayed, adjacent to the main gate so that it is easily visible to people. The text should be in an understandable format and in local and national language.
- The health facility area should have a rubbish pit for disposal of refuse and medical waste. The surroundings of the health facilities should be kept clean with no reservoirs of stagnant/unclean water, which could serve as vector breeding sites.
- The entrance of the building should have a ramp to facilitate physically challenged patients on wheel chairs or stretchers. Wheel chairs & stretchers should be available near to the main gate to transfer the patient in minimum time to emergency or OT.
- The entrance of the health facility building should have adequate light and ventilation with space for registration and record room, drug dispensing room, and waiting area for patients. The waiting area should have adequate seating arrangements, functional fans/AC and

- provide protection from extremes of weather. Health education material should be displaced in waiting areas.
- The waiting area should have a list of all fees in local and national languages and a complaint/suggestion box which patients can use to provide feedback on the services.
- Clean drinking water should be available in the facility. Preferably piped water with water storage facility should be available within the facility.
- Separate functional toilets for male and female staff and clients/patients/attendants should be available, while ensuring cleanliness.
- Privacy of patient should be ensured with availability of adequate numbers of functional curtains/screens in the examination room.
- A kitchen should be available for inpatients at RHCs. Cooking should be strictly limited to the kitchen. However, the option of contracting out the food services may also be considered.
- The labour room at the 24/7 BHU and RHCs should have an attached toilet, drinking water facility, and a designated space for new-born care. Privacy should be ensured for patients.
- At the RHC, the Operation theatre area should have a changing room, sterilization area operating area and washing area. Separate storage facility for sterile and unsterile equipment/instruments should be available within the operation theatre.
- Dressing room/ procedure room/ injection room should be well equipped with all the emergency drugs and instruments in all PHC facilities.
- Laboratory should have sufficient space with work stations and separate area for collection and screening of samples should be available. The lab should have marble/stone table top for platform and wash basins.
- Separate area for storage of sterile and common linen and other materials/ drugs/ consumables. The area should be well-lit and ventilated and should be rodent/pest free.
- Besides the above, the health facility should have
 - Dispensing cum store area
 - Vaccine storage and immunisation area
 - BCC and family planning counsel area
 - Office room
 - Utility room for dirty linen and used items
- Laundry: RHC should have its own arrangement for safe washing of bed linen, blankets, sheets etc. used in different areas. The BHUs and BHUs Plus are proposed to send their laundry to the RHCs as per need or there should be a contractual arrangement for linin washing.
- Decent Residential Accommodation with all the amenities, like 24-hrs water supply, electricity, etc. should be available for medical officers, paramedical staff, support staff, and for peon/chowkidar.

The infra structure and basic amenities, recommended at PHC centre facilities are as following:

Sr. Infrastructure	PHC CENTRE LEVEL INFRASTRUCTURE NEEDS				
No. Infrastructure					
2. Central registration point/ reception (with computerized/ paper records) 3. Medical officer In-charge room with washroom Yes Yes Yes Yes 4. Medical officer for om with washroom No No Yes Yes 5. WMO room with washroom No Yes Yes 6. Examination & procedure room Yes 7. LHV room with washroom Yes Yes Yes 8. Labour room Yes Yes Yes Yes 9. Operation Theatre (OT) with scrub/washing area, changing room, sterilization room and generator room Tool Indoor Wards with nursing station and washrooms No Yes Yes 10. Indoor Wards with nursing station and washrooms No Yes Yes 11. Dental room with washroom No Yes Yes 12. Waiting areas with washroom No Yes Yes 13. Dispensary Yes Yes Yes 14. EPI room with regular & alternate electricity system Yes Yes Yes 15. Health education / Training room / ORT corner Yes Yes Yes 16. Laboratory Yes (Mini-Lab) Yes Yes 17. X-ray room with darkroom facility No Yes Yes 18. Storeroom Yes Yes Yes Yes 19. Ramps for disabled Yes Yes Yes 20. Kitchen No No Yes Yes 21. Mortuary and postpartum room No Yes Yes 22. Garage No Yes Yes Yes 23. Boundary wall Yes		Infrastructure	Dispensary (Urban)	24/7 BHU Medical Centre (Urban)	Health Centre (Urban)
A Medical officer In-charge room with washroom A Medical officer room with washroom A Medical officer room with washroom B WMO room with washroom A Medical officer room with washroom B WMO room with washroom A Wes Wes WMO and minor procedure room WAO A Yes Washroom A Wes Wes Wes Wes Wes Wes Wes Wes	1.	Land required	10 Kanal (BHU)	10 Kanal (BHU Plus)	24 Kanal (RHC)
3. Medical officer In-charge room with washroom No No Yes 4. Medical officer room with washroom No Yes Yes 5. WMO room with washroom No Yes Yes 6. Examination & procedure room No Yes Yes 7. LHV room with washroom Yes Yes Yes 9. Operation Theatre (OT) with scrub/washing area, changing room, sterilization room and generator room No Yes Yes 10. Indoor Wards with nursing station and washrooms No No Yes (20 beds, 10 (20 beds, 10 maternity room)) (20 beds, 10 maternity room) (20 beds, 10 (20 beds, 10 maternity room)) (20 beds, 10 (20 beds, 10 maternity room) (20 beds, 10 maternity room) (20 beds, 10 maternity room) (20 beds, 10 materni	2.		Yes	Yes	Yes
4. Medical officer room with washroom No Yes Yes WMO room with washroom No Yes Yes (MO and minor procedure room) 1. Lit's room with washroom No Yes Yes Labour room No No Yes Yes Yes Toom, sterilization room and generator room 10. Indoor Wards with nursing station and washrooms No No Yes (20 beds, 10 maternity room) Waiting areas with washroom No Yes Yes 13. Dispensary Yes Yes Yes Yes Yes 14. EPI room with regular & alternate electricity system Yes Yes Yes Yes 15. Health education / Training room/ ORT corner Yes (Mini-Lab) Yes Yes Yes 16. Laboratory Yes Yes Yes Yes Yes Yes Yes Yes	3.	• •	No	No	Yes
5. WMO room with washroom 6. Examination & procedure room 7. LHV room with washroom 7. LHV room with washroom 8. Labour room 8. Labour room 9. Operation Theatre (OT) with scrub/washing area, changing room, sterilization room and generator room 10. Indoor Wards with nursing station and washrooms 10. Indoor Wards with nursing station and washrooms 10. Indoor Wards with nursing station and washrooms 11. Dental room with washroom 12. Waiting areas with washroom 13. Dispensary 14. EPI room with regular & alternate electricity system 15. Health education / Training room/ ORT corner 16. Laboratory 17. X-ray room with darkroom facility 18. Storeroom 18. Storeroom 18. Storeroom 19. Storeroom 10. No 10. Yes 11. Dental room with washroom 11. Dental room with washroom 12. Waiting areas with washroom 13. Dispensary 14. EPI room with regular & alternate electricity system 15. Health education / Training room/ ORT corner 16. Laboratory 17. X-ray room with darkroom facility 18. Storeroom 19. Storeroom 19. Storeroom 10. No 10. Yes 11. Wes 12. Wash regular & Yes 12. Wash regular & Yes 13. Boundary wall 14. EPI room with proper infection control measures results of the service			Yes		Yes
Company No	5.	WMO room with washroom	No	Yes	Yes
Committee Comm	6.	Examination & procedure room	No	Yes	Yes
8. Labour room					procedure room)
9. Operation Theatre (OT) with scrub/washing area, changing room, sterilization room and generator room 10. Indoor Wards with nursing station and washrooms No					
room, sterilization room and generator room Indoor Wards with nursing station and washrooms Indoor Wards with nursing station and washrooms No					
Comparison of	9.		Yes	Yes	Yes
11. Dental room with washroom No Yes Yes 12. Waiting areas with washrooms No Yes Yes 13. Dispensary Yes Yes Yes 14. EPI room with regular & alternate electricity system Yes Yes Yes Yes 15. Health education / Training room/ ORT corner Yes Yes Yes Yes 16. Laboratory Yes (Mini-Lab) Yes Yes 17. X-ray room with darkroom facility No Yes Yes 18. Storeroom Yes Yes Yes Yes 19. Ramps for disabled Yes Yes Yes Yes 20. Kitchen No No No Yes 21. Mortuary and postpartum room No No Yes 22. Garage No No Yes Yes 23. Boundary wall Yes Yes Yes Yes 24. Residences for staff Yes Yes Yes Yes 25. Waste disposal area with proper infection control measures Yes Yes Yes Yes 26. Water supply & storage facility Yes Yes Yes 27. Green area with plantation Yes Yes Yes Yes 28. Carpeted road access Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 29. Electricity, Water and Gas Facility Yes Yes Yes Yes 20. Telephone and Internet Yes Yes Yes Yes 21. Facility Sign board 22. Board with listed services, opening times and emergency Yes	10.	Indoor Wards with nursing station and washrooms	No	No	Yes
11. Dental room with washroom 12. Waiting areas with washrooms 13. Dispensary 14. EPI room with regular & alternate electricity system 15. Health education / Training room / ORT corner 16. Laboratory 17. X-ray room with darkroom facility 18. Storeroom 19. Ramps for disabled 19. Ramps for disabled 19. Kitchen 19. Ramps for disabled 19. Withdray and postpartum room 19. Ramps for disabled 19. Withdray and postpartum room 19. Withdray and residuation and resid				(Two beds	(20 beds, 10
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CDispensary and dressing area	12.	Waiting areas with washrooms	No	Yes	Yes
dressing area) 14. EPI room with regular & alternate electricity system 15. Health education / Training room/ ORT corner 16. Laboratory 17. X-ray room with darkroom facility 18. Storeroom 19. Ramps for disabled 19. Ramps for disabled 19. Kitchen 19. Ramps for disabled 19. Kitchen 19. Ramps for disabled 19. Kitchen 10. Wortuary and postpartum room 10. No 11. Mortuary and postpartum room 12. Mortuary and postpartum room 13. Boundary wall 14. EPI room with regular & alternate electricity system 19. Ramps for disabled 19. Ram	13.	Dispensary	Yes	Yes	Yes
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24. Residences for staff Yes			No	Yes	Yes
24. Residences for staff Yes		_	Yes	Yes	Yes
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32. Board with listed services, opening times and emergency Yes Yes Yes contacts					
contacts					
33. Fuel operated generator No Yes Yes	32.		Yes	Yes	Yes
	33.	Fuel operated generator	No	Yes	Yes

With regards to FLH, following guidelines should preferably be followed especially in the public sector.

The suggested land area for THQ and DHQ level hospitals is as following to ensure provision of all essential in-patient and outpatient services:

- a) THQ hospital (Type A) 10-100 bedded capacity 7 ha/138 Kanals (350 m²/0.69 Kanals per bed). There would be variation in Type B and Type C THQ.
- b) DHQ- 100-350 bedded capacity 10 ha/198 Kanals (333 m²/0.65 per bed)

These areas are for the hospital buildings only, excluding the area needed for staff housing.

- The site must be large enough for all the planned functional requirements to be met and for any expansion envisioned within the coming ten years.
- While choosing the location for a health facility, it should be ensured that the site has metal road access, electricity supply, adequate water supply, storm-water disposal gas supply and communication lines for telephone/ mobile phone.
- The building should be built in a manner to ensure adequate sunlight and cross ventilation and as per government rules.
- In areas where such utilities are not available, substitutes must be found, such as a deep well for water, generators for electricity and radio communication for telephone.
- It should be in an area free of pollution of any kind, including air, noise, water and land pollution.
- The hospital compound should have a boundary wall with gate and a facility sign board. A board with listed services, opening times and emergency contacts during closing times should be displayed, adjacent to the main gate so that it is easily visible to people. The text should be in an understandable format and in local and national language. Large DHQ hospital should have incinerator.
- The hospital area should have a rubbish pit for disposal of refuse and medical waste. The surroundings of the health facilities should be kept clean with no reservoirs of stagnant/unclean water, which could serve as vector breeding sites.
- The entrance of the building should have a ramp to facilitate physically challenged patients on wheel chairs or stretchers.
- The entrance of the hospital building should have adequate light and ventilation with space for registration and record room, drug dispensing room, and waiting area for patients.
- The waiting area should have adequate seating arrangements, functional fans/AC and provide protection from extremes of weather. Health education material should be displaced in waiting areas.
- The waiting area should have a list of all fees in local and national languages and a complaint/suggestion box which patients can use to provide feedback on the services.
- Clean drinking water should be available in the facility. Preferably piped water with water storage facility should be available within the facility.
- Separate functional toilets for male and female staff and clients/patients/attendants should be available, while ensuring cleanliness.
- Privacy of patient should be ensured with availability of adequate numbers of functional curtains/screens in the examination room, along with attendant of same gender.
- A kitchen should be available for Inpatients at THQs/DHQs. Cooking should be strictly limited to the kitchen. However, the option of contracting out the food services may also be considered.

- The labour room at the THQs and DHQs should have an attached toilet, drinking water facility, and a designated space for new-born care with required equipment like suction machine. Privacy should be ensured for patients.
- At the FLH facilities, the operation theatre area should have a changing room, sterilization area, operating area, and washing area. Separate storage facility for sterile and unsterile equipment. Autoclave machine/instruments should be available within the operation theatre.
- Dressing room/ procedure room/ injection room should be well equipped with all the emergency drugs and instruments in all FLH facilities.

Besides the above, the health facility should have

- Dispensing cum store area
- Vaccine storage and immunization area
- BCC and family planning counsel area
- Utility room for dirty linen and used items
- Laboratory should have sufficient space with work stations and separate area for collection and screening should be available. The lab should have marble/stone table top for platform and wash basins.
- Separate area for storage of sterile and common linen and other materials/ drugs/ consumables. The area should be well-lit and ventilated and should be rodent/pest free.
- All FLH facilities should have its own arrangement for safe washing of bed linen, blankets, sheets etc. used in different areas. There should be a contractual arrangement for linen washing.
- Decent residential accommodation with all the amenities, like 24 hours water supply, electricity, etc. should be available for medical officers, paramedical staff, support staff and for peon/chowkidar.

The infrastructure and basic amenities recommended at FLH center facilities are as follows:

	FIRST LEVEL HOSPITAL INFRASTRUCTURE AND BASIC AMENITIES					
		Yes	Yes / No			
S	r. No. Infrastructure and Basic Amenities	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital			
1.	Central registration point/reception with computerized and paper records	Yes	Yes			
2.	Central registration point Emergency room	Yes	Yes			
3.	Medical Officer In-charge room with washroom	Yes	Yes			
4.	Medical Officers rooms with washroom	Yes	Yes			
5.	WMO rooms with washroom	Yes	Yes			
6.	Offices for senior staff, senior medical staff and admin/accounts	Yes	Yes			
7.	Examination & Procedure room	Yes	Yes			
8.	LHV / Population welfare rooms with washroom	Yes	Yes			
9.	Medical and non-medical stores in the ward	Yes	Yes			
10.	Labour room	Yes	Yes			
11.	Operation Theatre (OT) with scrub / washing area, changing room, sterilization room and generator room	Yes	Yes			
12.	ICU/CCU	No	Yes			
13.	Preoperative room	Yes	Yes			
14.	Recovery Room	Yes	Yes			
15.	Indoor wards with nursing station and washrooms	Yes	Yes			

	FIRST LEVEL HOSPITAL INFRASTRUCTURE AND BASIC AMENITIES					
		Yes / No				
S	r. No. Infrastructure and Basic Amenities	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital			
16.	Dental room with washroom	Yes	Yes			
17.	Waiting areas with washrooms	Yes	Yes			
18.	A big room for any meeting/ Academic activity	Yes	Yes			
19.	Dispensary	Yes	Yes			
20.	EPI room with regular & alternate electricity system	Yes	Yes			
21.	Health education / Training room / ORT corner	Yes	Yes			
22.	Laboratory	Yes	Yes			
23.	X ray room with darkroom facility	Yes	Yes			
24.	Storeroom	Yes	Yes			
25.	Ramps for disabled	Yes	Yes			
26.	Kitchen	Yes	Yes			
27.	Mortuary and postpartum room	Yes	Yes			
28.	Garage	Yes	Yes			
29.	Boundary Wall	Yes	Yes			
30.	Residences for staff	Yes	Yes			
31.	Waste disposal area with proper infection control measures/protocol	Yes	Yes			
32.	Water supply & Storage facility	Yes	Yes			
33.	Green area with plantation	Yes	Yes			
34.	External & Internal Road access	Yes	Yes			
35.	Electricity, Water, and Gas facility	Yes	Yes			
36.	Telephone and Internet	Yes	Yes			
37.	Facility sign board	Yes	Yes			
38.	Board with listed services, opening times and emergency contacts	Yes	Yes			
39.	Fuel operated generator	Yes	Yes			
40.	Pharmacy	Yes	Yes			
41.	Main stores for medicines	Yes	Yes			
42.	Main stores for non-medical items	Yes	Yes			
43.	Public washroom	Yes	Yes			
44.	Drinking Water dispensers	Yes	Yes			
45.	Parking area (with shades) for staff and visitors	Yes	Yes			

Essential Human Resources for Health

Human Resources for Health (HRH) plays a central role in delivery of essential health services and for achieving UHC. HRH is a critical factor in long term planning, implementation and sustaining of health care services. The human resource for the PHC centre is inevitable in view the range of essential health services/ interventions which are prioritized.

At the community level, LHW, fulfilling the criteria, is required to cover 1,000-1,500 population. To ascertain the total number of required LHWs, a standard of 100 percent coverage of the rural areas and 30 percent coverage for urban areas, focussing on the urban slums/densely populated communities is recommended. A CMW should be deployed to cover a population of minimum 5,000 people and this cadre is not recommended for urban and socio-economically better off areas as institutions are usually available. Each union council should have at least two vaccinators to provide vaccination services in the PHC centre and community. Also, the CDC/Environmental technician and Population Welfare (PW) councillors are recommended as outreach workers. For some of the interventions such as HIV, the Community Based Organisations (CBOs) staff working in the community where high-risk population is concentrated. Linkages with the First Level/ Tertiary hospital staff may be ensured through digital health technology.

The essential human resources across the PHC centre level is reflected in the following table.

Sr. No. HRH 8/6 BHU (kural) Dispensary (Urban) of Cilinic (Ptv) 24/7 RHC (kural) Peacht Cilibration (Ptro) 24/7 RHC (kural) Peacht Cilibration (Ptro)	PHC CENTRE LEVEL HUMAN RESOURCES FOR HEALTH				
Sr. No. HRH 8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt) 24/7 BHU (Rural) Medical centre (Urban) Medical centre (Urban) Medical centre (Urban) Medical centre (Pvt) 24/7 BHU (Rural) Medical centre (Urban) Medical centre (Pvt) 24/7 BHU (Rural) Medical centre (Urban) Medical centre (Pvt) 24/7 BHU (Bran) Medical centre (Pvt) Nursing Home To testion 1. Medical Officer In charge 1 1 1 (Seni Central Surgeon) 0 0 1 1 (Seni Central Surgeon) 0 0 1 1 1 1 (Seni Central Surgeon) 0 0 0 1 1 2 3 3 Medical Officer 1 0 0 0 1 1 2 3 3 Medical Officer 1 0 0 0 1 1 2 3 3 Medical Officer 0 0 0 0 0 0 0 1					
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14. CDC/ Environmental technician 1 1 1 15. Health Technician/ Medical Assistant 1 2 3 16. Dental Technician 0 1 1 17. Dispenser/ Dresser 1 2 2 18. Mortuary attendant 0 0 1 19. OT Technician 0 0 3 20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
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Medical Assistant 16. Dental Technician 0 1 1 17. Dispenser/ Dresser 1 2 2 18. Mortuary attendant 0 0 1 19. OT Technician 0 0 3 20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
16. Dental Technician 0 1 1 17. Dispenser/ Dresser 1 2 2 18. Mortuary attendant 0 0 1 19. OT Technician 0 0 3 20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
17. Dispenser/ Dresser 1 2 2 18. Mortuary attendant 0 0 1 19. OT Technician 0 0 3 20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
18. Mortuary attendant 0 0 1 19. OT Technician 0 0 3 20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
19. OT Technician 0 0 3 20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
20. Lab Technician 0 2 2 21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
21. Radiography Technician 0 2 2 22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
22. Microscopist 0 0 1 23. Data Entry Operator 1 2 3 24. Lower Division Clerk 0 0 1 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver As per LHWP standards					
23. Data Entry Operator12324. Lower Division Clerk00125. Population Welfare (HPN) Councillor23326. Lady Health Supervisor & DriverAs per LHWP standards					
24. Lower Division Clerk00125. Population Welfare (HPN) Councillor23326. Lady Health Supervisor & DriverAs per LHWP standards					
 25. Population Welfare (HPN) Councillor 2 3 3 26. Lady Health Supervisor & Driver 2 As per LHWP standards 					
26. Lady Health Supervisor & Driver As per LHWP standards					
27. Character and					
27. Storekeeper 0 0 1					
28. Ward boy 0 0 3					
29. Generator/ Fog machine operator 0 0 1					
30. Driver 1 (if ambulance) 3 3					
31. Dai/Aya 0 3 3					
32. Cook & Tandorchi* 0 0 4					
33. Washer for Laundry* 0 0 2					
34. Naib Qasid / Sanitary Patrol 1 2 4					
35. Mali 1 1 2					
36. Chowkidar 2 2 3					
37. Sanitary worker* 1 2 3					

^{*} Cooking, Washing and Sanitary services may be contracted out.

The essential human resource for health across the FLH is reflected in the following table.

	FIRST LEVEL HOSPITAL HUMAN RESOURCES FOR HEALTH					
		Yes	Yes / No			
Sr.	Sr. No. HRH		District Headquarter Hospital / >50 bedded Private Hospital			
	Management Staff					
1.	Superintendent	Yes	Yes			
2.	Additional Superintendent	No	Yes			
3.	Deputy Superintendent	Yes	Yes			

⁻ Staff mentioned in Blue font is critical to ensure immediate essential interventions

FIRST LEVEL HOSPITAL HUMAN RESOURCES FOR HEALTH					
			Yes	/ No	
Sr. I	No.	HRH	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private	District Headquarter Hospital / >50 bedded Private	
		Specialists	Hospital	Hospital	
4.	Medical Specialist/ District Physician	Specialists	Yes	Yes	
5.	Paediatrician + Lactation Consultant		No	Yes	
6.	Cardiologist		No	Yes	
7.	Dermatologist		No	Yes	
8.	Neurologist		No	Yes	
9.	Nephrologist		No	Yes	
10.	T.B. & Chest Specialist (Pulmonologist)		No	Yes	
11.	Psychiatrist		Yes	Yes	
12.	Clinical Psychologist		No	Yes	
13.	Forensic Expert		No	Yes	
14.	Emergency Specialist		No	Yes	
15.	Trauma Surgeon		No	Yes	
16.	3 ,		Yes	Yes	
17. 18.	Gynaecologist/ Obstetrician		Yes	Yes Yes	
19.	Paediatrics Surgeon Urologist		No No	Yes	
20.	Orthopaedic surgeon		No	Yes	
21.			Yes	Yes	
22.			No	Yes	
23.	Ophthalmologist		No	Yes	
24.			No	Yes	
25.	Radiologist		No	Yes	
26.	Blood Transfusion Officer		No	Yes	
	N	ledical and Dental Staff			
27.	Senior Medical Officers		Yes	Yes	
28.	Medical Officers (MO)		Yes	Yes	
29.	Causality Medical Officers & Reliever		Yes	Yes	
30.	WMOs for Labour room & Relievers		Yes	Yes	
31.	MOs (Intensive Care)		Yes	Yes	
32.	Medicolegal Officer		Yes	Yes	
33.	Dental Surgeon		Yes	Yes	
		Nursing Staff			
34.	Nursing Superintendent		Yes	Yes	
35.	Nursing Deputy Superintendent		Yes	Yes	
	Head Nurses		Yes	Yes	
37.	Charge Nurses	Non-Medical Staff	Yes	Yes	
38.	Budget & Accounts Officer	Non-wedical Staff	Yes	Yes	
	Accountant		Yes	Yes	
40.			Yes	Yes	
41.	Pharmacist		Yes	Yes	
42.			Yes	Yes	
	Population Welfare Officer		Yes	Yes	
44.			Yes	Yes	
45.	Epidemiologist		Yes	Yes	
46.	Computer/ Data Entry Operators		Yes	Yes	
47.	Biomedical Engineer		Yes	Yes	
		Para-Medical Staff			
48.	Radiographer		Yes	Yes	
49.	Dental Technician/Assistant		Yes	Yes	
50.	Lab technicians		Yes	Yes	
51.	Lab Technician for blood transfusion		No	Yes	

Sr. No. IRIH Tehal Headquarter Hospital. A, 8 k C/ telopital. A, 8 k C/ telop	FIRST LEVEL HOSPITAL HUMAN RESOURCES FOR HEALTH					
Sr. No. HRH High (Special Private			Yes / No			
53. Eye Technician/Optician Yes Yes 54. Lab Assistants Yes Yes 55. Ophthalmic Technician Yes Yes 56. Biomedical Technicians Yes Yes 57. Microscopists Yes Yes 58. Speech Therapist No Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispensers / dressers Yes Yes 63. Vaccinators Yes Yes 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward Doy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. <td< th=""><th>Sr. N</th><th>lo. HRH</th><th>Hospital - A, B & C/ <50 bedded Private</th><th>Hospital / >50 bedded Private</th></td<>	Sr. N	lo. HRH	Hospital - A, B & C/ <50 bedded Private	Hospital / >50 bedded Private		
54. Lab Assistants Yes Yes 55. Ophthalmic Technician Yes Yes 56. Biomedical Technicians Yes Yes 57. Microscopists Yes Yes 58. Speech Therapist No Yes 59. ECG Technician Yes Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispensery dressers Yes Yes 63. Vaccinators Wes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes <tr< td=""><td>52.</td><td>CDC/Environmental technicians (INCENERATOR MAN)</td><td>Yes</td><td>Yes</td></tr<>	52.	CDC/Environmental technicians (INCENERATOR MAN)	Yes	Yes		
55. Ophthalmic Technician Yes Yes 56. Biomedical Technicians Yes Yes 7. Microscopists Yes Yes 58. Speech Therapist No Yes 59. ECG Technician Yes Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispenser's / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 72. Baildar Yes Yes <	53.	Eye Technician/Optician	Yes	Yes		
56. Biomedical Technicians Yes Yes 57. Microscopists Yes Yes 58. Spech Therapist No Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispensers / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes	54.	Lab Assistants	Yes	Yes		
57. Microscopists Yes Yes 58. Speech Therapist No Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispensers / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 80. Ambulance	55.	Ophthalmic Technician	Yes	Yes		
58. Speech Therapist No Yes 59. ECG Technician Yes Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispenser's / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 96. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar	56.	Biomedical Technicians	Yes	Yes		
59. ECG Technician Yes Yes 60. Operation Theatre technicians Yes Yes 61. Lady Health Visitors/Midwives Yes Yes 62. Dispensers / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiothera	57.	Microscopists	Yes	Yes		
60. Operation Theatre technicians 61. Lady Health Visitors/Midwives 62. Dispensers / dressers 63. Vaccinators **Support Staff** 64. Head Clerk 65. Senior Clerk 66. Lower Division Clerk 67. Storekeeper 68. Ward boy 69. Generator / Fog machine Operator 70. Water Carrier 71. Cashier 72. Baildar 73. Carpenter 74. Plumber 75. Almoner 76. Chowkidar 77. Telephone Operator 77. Telephone Operator 78. Physiotherapy Aide / technician 79. Stretcher Bearer 79. Stretcher Bearer 80. Ambulance Driver 81. Statistical Assistant 81. Statistical Assistant 82. Operation Theatre Attendants 82. Air Conditioner Technicians 83. Air Conditioner Technicians 84. Air Conditioner Technicians 85. Yes 86. Ward Cleaners 86. Air Conditioner Technicians 86. Air Conditioner Technicians 86. Air Conditioner Technicians 87. Fes 88. Air Conditioner Technicians 87. Fes 88. Air Conditioner Technicians 88. Air Conditioner Technicians 89. Fes 89. Tailor	58.	Speech Therapist	No	Yes		
61. Lady Health Visitors/Midwives Yes Yes 62. Dispensers / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre At	59.	ECG Technician	Yes	Yes		
62. Dispensers / dressers Yes Yes 63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Th	60.	Operation Theatre technicians	Yes	Yes		
63. Vaccinators Yes Yes Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 79. Stretcher Bea	61.	Lady Health Visitors/Midwives	Yes	Yes		
Support Staff 64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre Attendants Yes Yes 83. Sanitary Inspector/ Patrol Yes Yes	62.	Dispensers / dressers	Yes	Yes		
64. Head Clerk No Yes 65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre Attendants Yes Yes 83. Sanitary Inspector/ Patrol Yes Yes 84. Lab Attendants Yes Yes 85. Ward Servants Yes Yes <t< td=""><td>63.</td><td>Vaccinators</td><td>Yes</td><td>Yes</td></t<>	63.	Vaccinators	Yes	Yes		
65. Senior Clerk Yes Yes 66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre Attendants Yes		Support Staff				
66. Lower Division Clerk Yes Yes 67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre Attendants Yes Yes 83. Sanitary Inspector/ Patrol Yes Yes 84. Lab Attendants Yes Yes </td <td>64.</td> <td>Head Clerk</td> <td>No</td> <td>Yes</td>	64.	Head Clerk	No	Yes		
67. Storekeeper Yes Yes 68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre Attendants Yes Yes 83. Sanitary Inspector/ Patrol Yes Yes 84. Lab Attendants Yes Yes 85. Ward Servants Yes Yes 86. Ward Cleaners Yes Yes 87. Electrician Yes Yes 88. Air Conditioner Technicians Yes Yes </td <td>65.</td> <td>Senior Clerk</td> <td>Yes</td> <td>Yes</td>	65.	Senior Clerk	Yes	Yes		
68. Ward boy Yes Yes 69. Generator / Fog machine Operator Yes Yes 70. Water Carrier Yes Yes 71. Cashier Yes Yes 72. Baildar Yes Yes 73. Carpenter Yes Yes 74. Plumber Yes Yes 75. Almoner Yes Yes 76. Chowkidar Yes Yes 77. Telephone Operator Yes Yes 78. Physiotherapy Aide / technician Yes Yes 79. Stretcher Bearer Yes Yes 80. Ambulance Driver Yes Yes 81. Statistical Assistant Yes Yes 82. Operation Theatre Attendants Yes Yes 83. Sanitary Inspector/ Patrol Yes Yes 84. Lab Attendants Yes Yes 85. Ward Cleaners Ye	66.	Lower Division Clerk	Yes	Yes		
69.Generator / Fog machine OperatorYesYes70.Water CarrierYesYes71.CashierYesYes72.BaildarYesYes73.CarpenterYesYes74.PlumberYesYes75.AlmonerYesYes76.ChowkidarYesYes77.Telephone OperatorYesYes78.Physiotherapy Aide / technicianYesYes79.Stretcher BearerYesYes80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	67.	Storekeeper	Yes	Yes		
70.Water CarrierYesYes71.CashierYesYes72.BaildarYesYes73.CarpenterYesYes74.PlumberYesYes75.AlmonerYesYes76.ChowkidarYesYes77.Telephone OperatorYesYes78.Physiotherapy Aide / technicianYesYes79.Stretcher BearerYesYes80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	68.	Ward boy	Yes	Yes		
71. CashierYesYes72. BaildarYesYes73. CarpenterYesYes74. PlumberYesYes75. AlmonerYesYes76. ChowkidarYesYes77. Telephone OperatorYesYes78. Physiotherapy Aide / technicianYesYes79. Stretcher BearerYesYes80. Ambulance DriverYesYes81. Statistical AssistantYesYes82. Operation Theatre AttendantsYesYes83. Sanitary Inspector/ PatrolYesYes84. Lab AttendantsYesYes85. Ward ServantsYesYes86. Ward CleanersYesYes87. ElectricianYesYes88. Air Conditioner TechniciansYesYes89. TailorYesYes	69.	Generator / Fog machine Operator	Yes	Yes		
72.BaildarYesYes73.CarpenterYesYes74.PlumberYesYes75.AlmonerYesYes76.ChowkidarYesYes77.Telephone OperatorYesYes78.Physiotherapy Aide / technicianYesYes79.Stretcher BearerYesYes80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	70.	Water Carrier	Yes	Yes		
73. Carpenter 74. Plumber 75. Almoner 76. Chowkidar 77. Telephone Operator 78. Physiotherapy Aide / technician 79. Stretcher Bearer 80. Ambulance Driver 81. Statistical Assistant 82. Operation Theatre Attendants 83. Sanitary Inspector/ Patrol 84. Lab Attendants 85. Ward Servants 86. Ward Cleaners 87. Electrician 88. Air Conditioner Technicians 89. Tailor	71.	Cashier	Yes	Yes		
74.PlumberYesYes75.AlmonerYesYes76.ChowkidarYesYes77.Telephone OperatorYesYes78.Physiotherapy Aide / technicianYesYes79.Stretcher BearerYesYes80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	72.	Baildar	Yes	Yes		
75. Almoner 76. Chowkidar 77. Telephone Operator 78. Physiotherapy Aide / technician 79. Stretcher Bearer 80. Ambulance Driver 81. Statistical Assistant 82. Operation Theatre Attendants 83. Sanitary Inspector/ Patrol 84. Lab Attendants 85. Ward Servants 86. Ward Cleaners 87. Electrician 87. Electrician 87. Telephone Operator 97. Yes 97. Yes 98. Air Conditioner Technicians 97. Yes 98. Tailor 97. Yes 97. Yes 98. Air Conditioner Technicians 97. Yes 98. Tailor 97. Yes 97. Yes 98. Tailor	73.	Carpenter	Yes	Yes		
76. Chowkidar 77. Telephone Operator 78. Physiotherapy Aide / technician 79. Stretcher Bearer 79. Stretcher Bearer 79. Ambulance Driver 80. Ambulance Driver 81. Statistical Assistant 82. Operation Theatre Attendants 83. Sanitary Inspector/ Patrol 84. Lab Attendants 85. Ward Servants 86. Ward Cleaners 87. Electrician 88. Air Conditioner Technicians 89. Tailor Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	74.	Plumber	Yes	Yes		
77.Telephone OperatorYesYes78.Physiotherapy Aide / technicianYesYes79.Stretcher BearerYesYes80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	75.	Almoner	Yes	Yes		
78.Physiotherapy Aide / technicianYesYes79.Stretcher BearerYesYes80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	76.	Chowkidar	Yes	Yes		
79. Stretcher Bearer 80. Ambulance Driver 81. Statistical Assistant 82. Operation Theatre Attendants 83. Sanitary Inspector/ Patrol 84. Lab Attendants 85. Ward Servants 86. Ward Cleaners 87. Electrician 88. Air Conditioner Technicians 89. Tailor	77.	Telephone Operator	Yes	Yes		
80.Ambulance DriverYesYes81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	78.	Physiotherapy Aide / technician	Yes	Yes		
81.Statistical AssistantYesYes82.Operation Theatre AttendantsYesYes83.Sanitary Inspector/ PatrolYesYes84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	79.	Stretcher Bearer	Yes	Yes		
82. Operation Theatre AttendantsYesYes83. Sanitary Inspector/ PatrolYesYes84. Lab AttendantsYesYes85. Ward ServantsYesYes86. Ward CleanersYesYes87. ElectricianYesYes88. Air Conditioner TechniciansYesYes89. TailorYesYes	80.	Ambulance Driver	Yes	Yes		
83. Sanitary Inspector/ Patrol 84. Lab Attendants 85. Ward Servants 86. Ward Cleaners 87. Electrician 88. Air Conditioner Technicians 89. Tailor Yes Yes Yes Yes Yes Yes Yes Ye	81.	Statistical Assistant	Yes	Yes		
84.Lab AttendantsYesYes85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	82.	Operation Theatre Attendants	Yes	Yes		
85.Ward ServantsYesYes86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	83.	Sanitary Inspector/ Patrol	Yes	Yes		
86.Ward CleanersYesYes87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	84.	Lab Attendants	Yes	Yes		
87.ElectricianYesYes88.Air Conditioner TechniciansYesYes89.TailorYesYes	85.	Ward Servants	Yes	Yes		
88.Air Conditioner TechniciansYesYes89.TailorYesYes	86.	Ward Cleaners	Yes	Yes		
89. Tailor Yes Yes	87.	Electrician	Yes	Yes		
	88.	Air Conditioner Technicians	Yes	Yes		
90. Dhobi/Washerman Yes Yes	89.	Tailor	Yes	Yes		
	90.	Dhobi/Washerman	Yes	Yes		

^{*}Cooking, washing and sanitary services may be contracted out

Essential Medicines and Supplies

Considering implementation of prioritized interventions for the EPHS at community and PHC centre level, the essential medicines and supplies have been mentioned in this section (in blue font). However, some additional medicines and supplies have also been included which health care providers use as alternate medicines or for management of other common illnesses (in black font).

At the community level, the essential medicines and supplies defined by the Lady health Workers' programme are as following:

⁻ Staff mentioned in Blue font is critical to ensure immediate essential interventions

⁻ Number of staff positions will vary as per sanctioned list

Essential Medicines and Supplies at Community Level

For Lady Health Worker

- Tab Paracetamol
- Syrup Paracetamol
- Syrup Amoxicillin
- Tab Mebendazole
- ORS (Sachet)
- Eye ointment
- Tab. Ferrous salt + Folic Acid
- Syrup Zinc
- Syrup B complex
- Benzyl Benzoate Lotion
- Condoms
- Oral Contraceptive Pills/ emergency pill
- Injectable contraceptive (Depo Provera) with syringes
- Antiseptic Lotion
- Cotton Bandages
- Cotton roll

For other community level interventions

Vaccine along with auto-destructible syringes and cold

- BCG Vaccine
 - Oral Polio Vaccine
 - Injectable Polio Vaccine
 - o Hepatitis B Vaccine
 - Measles Vaccine
 - Tetanus Toxoid
 - Pentavalent Vaccine
 - Pneumococcal Vaccine
 - Rota vaccine
- Clean Delivery kits (for LHV)
- Vitamin A
- Deworming medicines
- Medicines and supplies for high-risk populations
- (RUSF provision at community level to be explored

especially in food insecure areas)

Following groups of essential medicines have been proposed at the 8/6 BHUs, 24/7 BHUs, and RHCs considering the conditions/illnesses that are proposed to be managed in the EPHS package of services.

Groups of Essential Medicines and Supplies at PHC centre and FLH

- Anaesthetics (Local)
- Analgesics (NSAIDs)
- Anti-Allergic (Anaphylaxis)
- Antidotes and other substances used in poisoning
- Anti-Epileptics Anticonvulsants
- Antibiotics/Antimicrobial
- Anti-Helminthic
- Anti-Fungal
- Anti-Tuberculosis Drugs
- Anti-Diabetics
- Anti-Malarial
- GIT Medicines

- Cardiovascular Medicines
- Medicines Affecting Coagulation
- Oxytocic Medicines
- Ophthalmic Medicines
- ENT Medicines
- I/V Infusions (Plasma Substitutes)
- Vitamins, Minerals and Food supplements
- Medicines for Mental and Behavioural Disorders & Tranquilizers
- Anxiolytics
- Contraceptives
- Vaccines and Sera

The detailed list of medicines and supplies (essential and alternate + additional medicines) recommended at the PHC centre & FLH are provided in the Annexure A and B.

Essential Equipment and Furniture

A standard list of equipment for community level and PHC facilities have been developed to compliment the EPHS package of the interventions to achieve the goals of the UHC.

At the community level, following equipment are required.

Essential Equipment at Community Level

- LHW Kit Bag
- Stethoscope
- BP Apparatus (Dial)
- Thermometer Clinical/ Infra-red thermometer
- Torch with batteries

- Weighing machine (salter)
- Weighing machine (Adult)
- Mid upper arm circumference (MUAC) tape
- Plain Scissors
- Respiratory counter

In order to effectively implement the prioritized EPHS interventions at different types of PHC centre level facilities, a group of essential equipment and furniture is recommended, which is as following

Group of Essential Equipment and Furniture at PHC centre and FLH

- Equipment for Emergency and General services
- Equipment for Growth monitoring and Delivery room
- Dilatation & Curettage (D&C) set
- Caesarean section set
- Indoor equipment including hospital beds
- Procedure room

- Operation theatre
- Dental unit
- Lab equipment and reagents
- Linen
- Transport
- Miscellaneous including furniture

A detailed list of essential equipment and miscellaneous items including furniture by different types of PHC centre and FLH is provided in Annexure C and D.

HEALTH SYSTEM AND MANAGEMENT

A key element in ensuring successful implementation of the EPHS is to strengthen the supporting functions of the health system. There are different health system and health management components which are critical to ensure effective delivery of essential health services. These systems are usually managed at district level or above to ensure efficiency and uniformity. Options for different health system components and their costing/ effectiveness will be discussed separately.



In this section, some of the key health management arrangement at the community and PHC centre level are as following:

Supervision

Supervision is the act or function of overseeing something (health facility/ services) or service providers. Generally, supervision contains elements of providing knowledge, helping to organize tasks, enhance motivation, and monitoring activity and results; the amount of each element is varying in different contexts.

- At community level, there is a dedicated supervisor (Lady Health Supervisor) to supervise the activities of LHWs in the catchment area. She is supposed to visit each LHW at least once in a month and do structured supervision using checklist. In addition, concerned health facility in-charge or LHV trainer should carry out supervision activities. The services which are offered by community-based organizations, have its own supervisory mechanism considering the design of intervention.
- At PHC centre (BHU), at least one visit should be ensured on monthly basis by the district level supervisor and more frequently by the tehsil level supervisor.
- At PHC centre (24/7 BHU), at least two visits should be ensured on monthly basis by the district level supervisor and more frequently by the tehsil level supervisor.
- At PHC centre (RHC), at least three visits should be ensured on monthly basis by the district level supervisor and more frequently by the tehsil level supervisor.

The following should be ensured during supervision activities at all levels:

- a. Use of checklist for quality supervision. Option for smartphone application-based checklist may also be considered for immediate reporting to district health management team and action by the concerned
- b. Written comments with signature should be ensured on registers for follow up actions
- c. Verbal/ written feedback should be provided to supervise with few actionable points, and discussion of supervisee performance
- d. Supervisee should be supported in decision making using the available data

Management Meetings

Community based workers should attend monthly meeting at the health facility to submit report, collect medicines and supplies, hold discussion with trainers on service delivery related issues and continuing education.

At PHC centre and FLH level, short and structured weekly management meetings should be held to discuss issues and agree on few actionable points. Agenda items of these meeting should be but not limited to: Health information data quality and timeliness reporting, maintenance of record, utilization of services and their quality, disease data and preventive measures, community engagement, work conditions, finance & budget, decision-making and follow up actions.

Community Engagement and Feedback System

At community level, each LHW is expected to organize Health committee and Women group and call meeting on monthly basis to discuss health related issues. PW councillor can also ensure community level health awareness and education sessions in collaboration with LHWs, while supporting the health facility staff in organizing health education sessions of patients/ clients visiting health facilities. CBO workers are also involved in health education and awareness raising activities among high-risk groups.

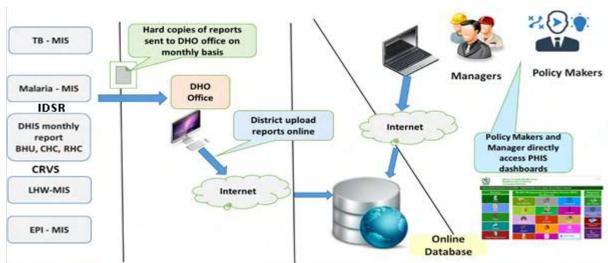
For getting Patient/ Client opinion and feedback on the LHW service provision, LHS can use her checklist or informal discussion to ensure feedback from some community members. At the PHC centre level, different options for opinion/ feedback from patients/ clients could be by fixing a complaint box in the facility, regular official meeting with community members, informal discussion with community members, using website of the ministry/ departments of health, toll free number etc.

Health Management Information System

Monitoring reflects the periodic collection and review of information on services implementation, coverage and use for comparison with implementation plans. Monitoring identifies shortcomings well in time and thus of critical importance for providing quality care. Timely and reliable data is needed which is helpful for decision-making and strengthening of health systems. Monitoring data could be used to better adapt strategies to local conditions, with the aim of increasing effectiveness.

It is important that the supervision activities should have focus on the data recording and reporting and triangulate/ cross-check the monitoring data relayed through information system and the actual service provision. If the monitoring data relayed through the information system is of reasonable quality, then it should be used for planning the supervisory visits, focussing on the weaker service delivery points. Monitoring and routine supervision complement each other and are central to bringing transparency and accountability within the health system.

At the present, the information flow from the service providers in PHC centre is not digitised. There are multiple health information systems including LHW-MIS, EPI-MIS, Malaria-MIS, TB-MIS and PHC centre level District Health Information System (DHIS). The reports for all these health information systems are sent in hard copy to the district office on monthly basis where they are entered into the system and the data becomes available at central repository for the respective information system. All these individual systems have been linked to a common platform "Pakistan Health Information System" where the managers and the policy makers can have ready access to these systems. A schematic description of current information flows has been depicted in the picture below.



Government is considering the option of a (paperless) digital health information system at all levels. In the meantime, following MIS tools are required at community and PHC centre level.

Essential MIS Tools at Community and PHC Centre Level

For Lady Health Worker

- Map of catchment area
- Family/ Khandan register
- Dairy
- Treatment register
- Mother/ New-born checklist
- Referral slip
- MCH card
- Health Education material
- Flip chart
- Monthly report
- Catchment population chart

For PHC Centre

- Map of catchment area and Demographic details
- Central registration point register
- OPD ticket
- Medicine requisition slip
- Outpatient department register
- OPD abstract form
- Laboratory register
- Referral slip
- Radiology/Ultrasonography/CT Scan/ECG register

For PHC Centre

- Indoor Patient Register
- Indoor Abstract Form
- Daily Bed Statement register
- Operation Theatre (OT) register
- Family Planning register
- Family Planning card
- Maternal Health register
- TB register
- TB treatment card
- Antenatal card
- Obstetric register
- Health education material
- Monthly report
- Daily medicine expense register
- Stock register (Medicine/Supplies)
- Stock register (Equipment/Furniture/Linen)
- Community meeting register
- Facility staff meeting register
- Secondary facility report form
- Catchment area population chart
- Procedures manual for DHIS
- LQAS form

District Monitoring & Evaluation System

Main outcome level indicator at district level is 'Universal Health Coverage Index' which is a cumulative indicator of 4 priority areas and 16 priority indicators. This information should preferably be gathered using national and provincial health & social sector surveys. In case, information is not available than district level survey may be considered to collect information.

For services access and readiness assessment (SARA) of health facility/ district for delivery of EPHS, SARA tool has been adopted for Pakistan with support of WHO and University of Manitoba. The same has been aligned with the EPHS prioritized interventions. It is recommended to repeat the survey at district level with 3-5 years intervals. In addition, it is important to conduct qualitative research to assess community needs, health seeking behaviours and perceptions about quality of health services. Formative research to understand and monitor behaviours and prioritize communication messages is also important, along with other research agenda.

Infection Prevention

The infection prevention at community and PHC centre is proposed for

Separate Washrooms for patients/ clients

- Functional washrooms adjacent to waiting areas must be ensured with availability of water, soap / sanitizers, tissue papers etc.
- Cleanliness must be ensured at all times with waste disposable bins

Individual/ Staff

- Ensure cleanliness
- Maintain hand hygiene, for preventing cross-contamination (person to person or contaminated object to person) – availability of sanitizers
- Have personal protective equipment available (caps, masks, aprons, eyewear, gloves, closedtoe shoes) and use it appropriately
- Prevent needle/sharp injuries

Facility

- Adequate supply of clean drinking water
- Use containers for sharps disposal and dispose these safely
- Ensure that clean supplies are available at all sites (gauze, cotton wool, instruments, plastic containers etc)
- Ensure that antiseptics and disinfectants are available and are used appropriately
- Develop and maintain shelf-life system to store High-Level Disinfectants (HLD) and sterile items
- Ensure proper collection and cleaning of soiled linen
- Follow waste handling, collection and disposal guidelines properly

Processing/ Sterilization of equipment

- Perform point-of-use decontamination of instruments and other items.
- Have a separate area for instrument cleaning, where instruments and items are properly
- Ensure proper instrument processing, with facilities for HLD and sterilization.
- The proposed equipment for decontamination of instruments at the 24/7 BHU Plus and RHC include <u>electric autoclave</u>, <u>non-electric autoclave</u>, <u>electric dry heat sterilizer</u>, <u>electric boiler/steamer</u>, <u>non-electric boiler/steamer and chemical HLD</u>. At the 8/6 BHU, electric autoclave and chemical HLD is proposed.

Waste Management

PHC centre level facilities should have the waste management guidelines available in order to reduce the amount of waste, and avoid mixing of general waste (paper, empty juice box, toffee wrappers, packaging) with infectious waste (e.g., dressings, needles) in different assigned colours bin and have regular capacity building of the staff and sweepers to improve practices related to waste management.

Waste management inside the facility should focus on

Waste collection

- Use appropriate Personal Protective Equipment (utility gloves, eye protection and toe covered, long plastic shoes)
- Remove gloves immediately after disposing waste, and perform hand hygiene by washing hands with plain soap and water
- Collect waste in leak proof containers
- Leak proof containers once when three quarters full should be emptied. Do not wait for them to get full
- Human waste, such as the placenta, must be placed in double bags in the leak proof container
- Keep waste collection area clean and free of spills

Waste disposal

- General waste should be discarded in the nearby waste disposal area
- Contaminated Liquid waste (blood, urine, faeces and other body fluids) should be emptied in a toilet/sink to get them drained into a sewer system
- Solid waste (used dressings and other materials contaminated with blood and organic matter) should be buried in the rubbish pit or incinerated
- Sharps containers should be buried in rubbish pit or incinerated or open burning with protection
- Sharps may also be stored in a protected manner for offsite removal / burning in district incinerator
- Incinerator in DHQ hospital is recommended

Referral Services

Referral system is an essential element of an efficient health care delivery system where the patient load is distributed according to services need. For effective referral within the primary health care following propositions are made to make the referral system more effective.

There are different options for establishing a functional referral system including provision of ambulance to each health facility, pooling of ambulances at specific hubs and linking with on line services, using the services of philanthropist ambulance services or 1122 initiatives. Details of these interventions will be further explored in the district health system report. At this stage, following should be considered:

- The community level health workers and all PHC centre level facilities should be linked to each other and referral hospitals digitally with a bed registry and ambulance service system.
- Functional ambulances should be available in all PHC centre level facilities and position of drivers and paramedics should be filled.
- The referral forms should be available and the record of the referred patients adequately maintained.

- Referral protocols should be displayed in the health facilities
- The list of the referral facilities with contact numbers should be displayed/provided to community health worker so that in instances of emergency, a timely referral could be made and the referred facility is informed well in time to be able to provide requisite services.

Capacity Development

All community and PHC centre level, staff must receive training/s for at least 15 days every year. An assessment is being done to identify training needs aligned with UHC Benefit Package of Pakistan. However, following key trainings (others to be developed) are recommended for the technical staff at community and PHC centre level at this stage.

Training for Community Level Workers Training of Trainers (LHWs) LHW Training and Inservice Training Lady Health Supervisor Training 15 Days Refresher Training (Annual) Specialised/ Refresher Training e.g., Maan ki Sehat and Bachay ki Sehat Training for Vaccinators Training of PW/ HPN Councillor Training on Infection Control and Disease Surveillance (for surveillance staff) Training of CBO staff on HIV prevention

Training for PHC Centre Level Technical Staff
Family Planning (FP)
Integrated Management of Pregnancy and Childbirth (IMPAC)
Emergency Obstetric and New-born Care (EmONC)
Emergency New-born Care and Helping Baby Breathe
Integrated Management of Neonatal and Childhood Illnesses (IMNCI)
Syndromic Management of Sexually Transmitted Infections including HIIV
Malaria, Dengue and Vector Control
TB-DOTS
Non-Communicable Diseases (e.g. Diabetes, Cardio-Vascular Diseases, Respiratory Diseases)
Mental health global action plan (mhGAP) training
Infection Control and Waste Management
Mid-level management of EPI
Management of malnutrition + Infant & Young Child Feeding
Anaesthesia and Surgical procedures at PHC level
District Health Information System (DHIS) and Use of Information
Logistic and Supply management

Annual In-service training plans to be developed and executed.

ANNEXURES

A: Essential Medicines and Supplies - at PHC centre level facilities

	Availability (Yes/No)							
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)				
		Anaesthetic	s (Local)					
1.	Lidocaine (Vial)	Yes	Yes	Yes				
2.	Lidocaine (Topical)	Yes	Yes	Yes				
3.	Inj. Lignocaine + Epinephrine	No	Yes	Yes				
	Analgesics (NSAIDs)							
4.	Tab. Acetylsalicylic Acid	Yes	Yes	Yes				
5.	Tab. Mefenamic Acid	Yes	Yes	Yes				
6.	Tab. Diclofenac 50 mg	Yes	Yes	Yes				
7.	Diclofenac (Ampule)	No	No	Yes				
8.	Tab. Ibuprofen 200 mg	Yes	Yes	Yes				
9.	Tab. Ibuprofen 400 mg	Yes	Yes	Yes				
10.	Syp. Ibuprofen	Yes	Yes	Yes				
11.	Tab. Paracetamol 500 mg	Yes	Yes	Yes				
12.	Syp. Paracetamol	Yes	Yes	Yes				
13.	Inj. Paracetamol	No	Yes	Yes				
14.	Paracetamol (Suppository)	No	No	Yes				
		Anti-Allergic (A						
15.	Tab. Chlorpheniramine	Yes	Yes	Yes				
16.	Inj. Chlorpheniramine	Yes	Yes	Yes				
17.	Syp. Chlorpheniramine	Yes	Yes	Yes				
18.	Tab. Loratadine	No	Yes	Yes				
19.	Syp. Loratadine	No	Yes	Yes				
20.	Inj. Dexamethasone	Yes	Yes	Yes				
21.	Tab. Dexamethasone	Yes	Yes	Yes				
22.	Epinephrine (Ampoule)	No	Yes	Yes				
23.	Inj. Hydrocortisone 100mg	Yes	Yes	Yes				
24.	Tab. Prednisolone 5mg	Yes	Yes	Yes				
		Antidotes and other substa	ances used in poisoning					
25.	Atropine (Ampoule)	Yes	Yes	Yes				
26.	Charcoal Activated (Powder)	Yes	Yes	Yes				
27.	Inj. Diazepam	Yes	Yes	Yes				
28.	Naloxone (Ampoule)	No	Yes	Yes				
		Anti-Epileptics Ar	nticonvulsants					
29.	Tab. Carbamazepine 200 mg	No	Yes	Yes				
30.	Syp. Carbamazepine	No	Yes	Yes				
31.	Inj. Magnesium Sulphate	Yes	Yes	Yes				
32.	Tab. Phenobarbital	No	No	Yes				
33.	Inj. Phenobarbital	No	No	Yes				
34.	Tab. Phenytoin	No	No	Yes				
		Antibiotics/An	timicrobial					
35.	Tab./Cap. Amoxicillin 250 mg	Yes	Yes	Yes				
36.	Tab./Cap. Amoxicillin 500 mg	Yes	Yes	Yes				
37.	Syp. Amoxicillin (Powder for Suspension) 250 mg	Yes	Yes	Yes				
38.	Syp. Amoxicillin (Powder for Suspension) 500 mg	Yes	Yes	Yes				
39.	Inj. Amoxicillin 500 mg	No	No	Yes				
40.	Cap. Ampicillin 250 mg	Yes	Yes	Yes				
41.	Cap. Ampicillin 500 mg	Yes	Yes	Yes				
42.	Tab. Calvanic Acid + Amoxicillin	Yes	Yes	Yes				
43.	Ampicillin (Powder for Suspension) 250 mg	Yes	Yes	Yes				

Sr. No.	Medicine/Supplies	8/6 BHU (Rural)	0.4/5.0111.40.10	
14.		Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
	Ampicillin (Powder for	Yes	Yes	Yes
	Suspension) 500 mg	NI-	V	Vaa
15.	Inj. Ampicillin 500 mg Inj. Benzathine Penicillin 6lakh	No	Yes	Yes
16.	unit	Yes	Yes	Yes
17.	Inj. Benzathine Penicillin 12lakh unit	Yes	Yes	Yes
18.	Cap. Cefixime 100mg/400mg	No	No	Yes
19.	Tab. Ciprofloxacin 250 mg	Yes	Yes	Yes
50.	Tab. Ciprofloxacin 500 mg	Yes	Yes	Yes
51.	Syp. Ciprofloxacin 250 mg	Yes	Yes	Yes
52.	Cap. Azithromycin	No	No	Yes
53.	Azithromycin (Suspension)	No	No	Yes
54.	Tab. Cotrimoxazole DS	Yes	Yes	Yes
55.	Syp. Cotrimoxazole	Yes	Yes	Yes
6.	Cap. Doxycycline	Yes	Yes	Yes
57.	Inj. Gentamicin 80 mg	Yes	Yes	Yes
58.	Tab. Metronidazole 400 mg	Yes	Yes	Yes
59.	Inj. Metronidazole	No	No	Yes
50.	Syp. Metronidazole 200mg/60 ml	Yes	Yes	Yes
51.	Tab. Nitrofurantoin	No	No	Yes
52.	Inj. Procaine penicillin	Yes	Yes	Yes
53.	Tab. Phenoxymethylpenicillin	No	Yes	Yes
54.	Syp. Phenoxymethylpenicillin	No	No	Yes
	,	Anti-Heln	ninthic	
55.	Tab Mebendazole	Yes	Yes	Yes
66.	Tab. Pyrantel	Yes	Yes	Yes
57.	Syp. Pyrantel	Yes	Yes	Yes
		Anti-Fu	ngal	
58.	Clotrimazole (Vaginal Cream)	No	Yes	Yes
59.	Clotrimazole (Vaginal Tablet)	Yes	Yes	Yes
70.	Clotrimazole (Topical Cream)	Yes	Yes	Yes
71.	Tab. Nystatin	Yes	Yes	Yes
72.	Nystatin (Drops)	Yes	Yes	Yes
73.	Nystatin (Pessary)	No Anti-Tubercu l	No No	Yes
74.	Tab. Ethambutol		Yes	Yes
75.	Ethambutol (Oral Liquid)	No No	Yes	Yes Yes
76.	Tab. Isoniazid	No No	Yes	Yes
77.	Syp. Isoniazid	No	Yes	Yes
7. 78.	Tab. Pyrazinamide	No	Yes	Yes
79.	Cap. Rifampicin	No	Yes	Yes
30.	Syp. Rifampicin	No No	Yes	Yes
30. 31.	Inj. Streptomycin	No	Yes	Yes
32.	Tab. Ethambutol + Isoniazid	No	Yes	Yes
33.	Tab. Isoniazid + Rifampicin	No	Yes	Yes
34.	Tab. Isoniazid + Pyrazinamide +	No	Yes	Yes
35.	Rifampicin Tab. Rifampicin + Isoniazid +	No	Yes	Yes
36.	Pyrazinamide + Ethambutol Tab. Ethambutol + Isoniazid + Rifampicin	No	Yes	Yes

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)
87.	Tab. Glibenclamide 4 mg	No	Yes	Yes
88.	Tab. Metformin 500 mg	Yes	Yes	Yes
89.	Inj. Insulin Regular	Yes	Yes	Yes
90.	Inj. Insulin long acting	Yes	Yes	Yes
		Anti-Ma		
91.	Tab. Chloroquine	No	Yes	Yes
92.	Syp. Chloroquine	No	Yes	Yes
93.	Tab. Sulfadoxine + Pyrimethamine	No	No	Yes
94.	Tab. Artesunate + Sulfadoxine + Pyrimethamine	Yes	Yes	Yes
95.	Artemether (Ampule)	No	Yes	Yes
		GIT Med	icines	
96.	Inj. Hyoscine	Yes	Yes	Yes
97.	Tab. Hyoscine	Yes	Yes	Yes
98.	Tab. Metoclopramide	Yes	Yes	Yes
99.	Syp. Metoclopramide	Yes	Yes	Yes
100.	Inj. Metoclopramide	Yes	Yes	Yes
101.	Cap. Omeprazole 40 mg	Yes	Yes	Yes
102.	Inj. Omeprazole	Yes	Yes	Yes
103.	Tab. Esomeprazole	Yes	Yes Yes	Yes
104.	Cap. Esomeprazole Tab. Aluminium Hydroxide +	Yes	Yes	Yes
105.	Magnesium Trisilicate	Yes	Yes	Yes
106.	Syp. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	Yes
107.	ORS (Sachet)	Yes	Yes	Yes
108.	Tab. Bisacodyl	Yes	Yes	Yes
109.	Glycerine (Suppository)	Yes Cardiovascula i	Yes	Yes
110	Glyceryl Trinitrate (Sublingual)	Yes	Yes	Yes
110. 111.	Isosorbide Dinitrate (Sublingual)	Yes	Yes	Yes
111. 112.	Tab. Enalapril	No	No	Yes
113.	Tab. Atenolol 50 mg	Yes	Yes	Yes
114.	Tab. Methyldopa	Yes	Yes	Yes
115.	Inj. Methyldopa	No	No	Yes
116.	Tab. Hydrochlorothiazide	Yes	Yes	Yes
117.	Inj. Hydrochlorothiazide	Yes	Yes	Yes
118.	Tab. Furosemide 40 mg	Yes	Yes	Yes
119.	Inj. Furosemide 40 mg	Yes	Yes	Yes
120.	Tab. Captopril 25 mg	No	Yes	Yes
121.	Tab. Amlodipine 5 mg	No Madisinas Affasti	Yes	Yes
122.	Inj. Tranexamic Acid 500 mg	Medicines Affection	Yes	Yes
122. 123.	Cap. Tranexamic Acid 500 mg	Yes	Yes	Yes
149.	Cap. Transcamic Acid 500 mg	Oxytocic M	L	163
124.	Tab. Misoprostol	Yes	Yes	Yes
125.	Inj. Oxytocin	Yes	Yes	Yes
	,	Respiratory I		
126.	Tab. Salbutamol 4 mg	Yes	Yes	Yes
127.	Salbutamol (Inhaler)	Yes	Yes	Yes
128.	Ammonium Chloride+ Chloroform + Menthol +	Yes	Yes	Yes
	Diphenhydramine + Sodium			* ==

		Availability (Yes/No)				
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)		
	Citrate (Antitussive Expectorant)					
129.	Inj. Aminophylline	Yes	Yes	Yes		
130.	Oxygen Cylinder	Yes	Yes	Yes		
	Ta = 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	Ophthalmic N	Viedicines			
131.	0.5% Chloramphenicol (Eye Drops)	Yes	Yes	Yes		
132.	Ciprofloxacin (Eye Drops)	No	Yes	Yes		
133.	Betamethasone 0.5% w/v Neomycin eye drops	Yes	Yes	Yes		
134.	Tetracycline (Eye Ointment)	Yes	Yes	Yes		
	· ·	ENT Med	icines			
135.	Boroglycerine (Ear Drops)	Yes	Yes	Yes		
136.	Polymyxin B + Lignocaine (Ear Drops)	Yes	Yes	Yes		
137.	Ciprofloxacin (Ear Drops)	Yes	Yes	Yes		
138.	Xylometazoline (Nasal Drops)	No	Yes	Yes		
	, , , ,	I/V Infusions (Plasr	na Substitutes)			
139.	Plasma Expander (Infusion) 1000ml	No	Yes	Yes		
140.	Glucose/Dextrose (Infusion) 1000ml	Yes	Yes	Yes		
141.	Glucose/Dextrose (Ampoule)	Yes	Yes	Yes		
142.	Normal Saline (Infusion) 1000ml	Yes	Yes	Yes		
143.	Dextrose + Saline (Infusion) 1000ml	Yes	Yes	Yes		
144.	Ringer's Lactate (Infusion) 500ml	Yes	Yes	Yes		
145.	Potassium Chloride (Solution)	Yes	Yes	Yes		
146.	Inj. Sodium Bicarbonate	No	Yes	Yes		
147.	Water for Injection (Ampule)	Yes	Yes	Yes		
		Vitamins, Minerals and	l Food supplements			
148.	Tab. Ascorbic Acid 500 mg	Yes	Yes	Yes		
149.	Inj. Calcium Gluconate	No	Yes	Yes		
150.	Tab. Calcium 100 mg	Yes	Yes	Yes		
151.	Tab. Ergocalciferol (Vit. D)	Yes	Yes	Yes		
152.	Tab. Ferrous fumarate	No	Yes	Yes		
153.	Syp. Ferrous fumarate	Yes	Yes	Yes		
154.	Tab. Folic Acid	No	Yes	Yes		
155.	Tab. Ferrous salt + Folic Acid	Yes	Yes	Yes		
156. 157.	Inj. Vitamin K Tab. /Cap. Retinol (Vitamin A)	No Yes	Yes Yes	Yes Yes		
	after NIDs					
158.	Tab. Zinc Sulphate	Yes	Yes	Yes		
159. 160	Syrup Zinc Tab. B Complex	Yes	Yes	Yes		
160. 161.	Tab. B Complex Tab. Multivitamins	Yes Yes	Yes Yes	Yes Yes		
161. 162.	Multiple Micronutrients (Sachet)	Yes	Yes	Yes		
163.	Ready to Use Treatment Food	Yes	Yes	Yes		
164.	Ready to Use Supplement Food	Yes	Yes	Yes		
_О т.	Dermatological					
165.	Benzyl Benzoate Lotion	Yes	Yes	Yes		
166.	Betamethasone Cream/ Lotion	Yes	Yes	Yes		
167.	Calamine Lotion	Yes	Yes	Yes		
168.	Hydrocortisone Cream	Yes	Yes	Yes		
169.	Polymyxin B + Bacitracin Zinc	Yes	Yes	Yes		

		Availability (Yes/No)				
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)		
	(Ointment)					
170.	Silver Sulfadiazine Cream	Yes	Yes	Yes		
171.	Sodium Thiosulfate (Solution)	No	No	Yes		
			oural Disorders & Tranquilizers			
172.	Inj. Chlorpromazine	No	Yes	Yes		
173.	Tab. Clomipramine	No	Yes	Yes		
174.	Tab. Haloperidol	No V	Yes	Yes		
175. 176.	Tab. Diazepam 2 mg	Yes Yes	Yes Yes	Yes Yes		
177.	Inj. Diazepam 10 mg Tab. Alprazolam 0.5 mg	No	Yes	Yes		
1//.	Tab. Alprazolatii 0.5 ilig	Anxioly		ies		
178.	Tab. Alprazolam 0.5 mg	Yes	Yes	Yes		
179.	Tab. Diazepam 2 mg	Yes	Yes	Yes		
		Contrace		, 55		
180.	Condoms	Yes	Yes	Yes		
181.	Ethynylestradiol + Norethisterone (Combined Oral Pills)	Yes	Yes	Yes		
182.	Progesterone Only Pills (Levonorgestrel)	Yes	Yes	Yes		
183.	Emergency Contraceptive Pills (Levonorgestrel)	Yes	Yes	Yes		
184.	IUCD (Copper T/Multiload)	Yes	Yes	Yes		
185.	Inj. Medroxyprogesterone Acetate (Dmpa)	Yes	Yes	Yes		
186.	Inj. Norethisterone Enanthate (Net-En)	Yes	Yes	Yes		
187.	Inj. Estradiol Cypionate + Medroxyprogesterone Acetate	Yes	Yes	Yes		
188.	Levonorgestrel-Releasing Implant (Subdermal)	No	Yes	Yes		
189.	Etonogestrel-Releasing Implant (Subdermal)	No	Yes	Yes		
		Vaccines a				
190.	BCG Vaccine	Yes	Yes	Yes		
191.	Oral Polio Vaccine	Yes	Yes	Yes		
192.	Injectable Polio Vaccine	Yes	Yes	Yes		
193. 194.	Hepatitis B Vaccine Measles Vaccine	Yes Yes	Yes Yes	Yes Yes		
194. 195.	Tetanus Toxoid	Yes	Yes	Yes		
196.	Pentavalent Vaccine	Yes	Yes	Yes		
197.	Pneumococcal Vaccine	Yes	Yes	Yes		
198.	Rota vaccine	Yes	Yes	Yes		
199.	Anti-Rabies Vaccines (PVRV)	No	No	Yes		
200.	Anti-Snake Venom Serum	No	No	Yes		
Disposables/Antiseptics/ Disinfectants						
201.	Syringe 1 ml (Disposable)	Yes	Yes	Yes		
202.	Syringe 3 ml (Disposable)	Yes	Yes	Yes		
203.	Syringe 5 ml (Disposable)	Yes	Yes	Yes		
204.	Syringe 10 ml (Disposable)	Yes	Yes	Yes		
205.	Syringe 20 ml (Disposable)	Yes	Yes	Yes		
206.	Syringe 50 ml (Disposable)	Yes	Yes	Yes		
207.	IV Set	Yes	Yes	Yes		
208.	Scalp Vein Set	Yes	Yes	Yes		

			Availability (Yes/No)			
Sr. No.	Medicine/Supplies	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU (Rural) Medical Centre (Urban) Medical centre (Pvt)	24/7 RHC (Rural) Health Centre (Urban) Nursing Home (Pvt)		
209.	Volumetric Chamber (IV Burette)	Yes	Yes	Yes		
210.	IV Cannula (18, 20,22 & 24G)	Yes	Yes	Yes		
211.	Adhesive Tape	Yes	Yes	Yes		
212.	Sterile Gauze Dressing	Yes	Yes	Yes		
213.	Paper tape	No	Yes	Yes		
214.	Antiseptic Lotion	Yes	Yes	Yes		
215.	Cotton Bandage (3", 4" & 6")	Yes	Yes	Yes		
216.	Absorbent Cotton Wool	Yes	Yes	Yes		
217.	Crepe Bandage	Yes	Yes	Yes		
218.	Examination Gloves (All sizes)	Yes	Yes	Yes		
219.	Sterile Surgical Gloves (All sizes)	Yes	Yes	Yes		
220.	Silk Sutures Sterile (2/0, 3/0, 4/0) with needle	Yes	Yes	Yes		
221.	Chromic Catgut Sterile Sutures (different sizes) with needle	Yes	Yes	Yes		
222.	Face Mask Disposable	Yes	Yes	Yes		
223.	Blood Lancets	Yes	Yes	Yes		
224.	Slides	Yes	Yes	Yes		
225.	Endotracheal Tube (different sizes)	Yes	Yes	Yes		
226.	Nasogastric Tube (different sizes)	Yes	Yes	Yes		
227.	Resuscitator Bag with Mask	Yes	Yes	Yes		
228.	Disposable Airways (different sizes)	Yes	Yes	Yes		
229.	Clean Delivery Kits	Yes	Yes	Yes		

Item mentioned in Blue font is critical to ensure essential interventions

B. Essential Medicines and Supplies - at First Level Hospital

		Availability (Yes/No)	
		Tehsil Headquarter	District Headquarter
Sr. No.	Medicine/Supplies	Hospital - A, B & C/	Hospital /
		<50 bedded Private	>50 bedded Private
		Hospital	Hospital
	Anaesthetics (Local)		
1.	Lidocaine 2 % (Vial)	Yes	Yes
2.	Lidocaine 5 % (Topical)	Yes	Yes
3.	Lidocaine 2% with 1:100,000 epinephrine	Yes	Yes
4.	Lidocaine 2% and bupivacaine	No	Yes
5.	Xylocaine 1%	Yes	Yes
6.	Inj. Ketamine	Yes	Yes
7.	Isoflurane Gas	No	Yes
8.	Suxamethonium 1-2mg ;4	No	Yes
9.	Oxygen supply	Yes	Yes
	Analgesics (NSAIDs)		
10.	Tab. Acetylsalicylic Acid	Yes	Yes
11.	Tab. Mefenamic Acid	Yes	Yes
12.	Tab. Diclofenac 50 mg	Yes	Yes
13.	Diclofenac (Ampule)	No	Yes
14.	Tab. Ibuprofen 200 mg	Yes	Yes
15.	Tab. Ibuprofen 400 mg	Yes	Yes
16.	Syp. Ibuprofen	Yes	Yes
17.	Tab: Paracetamol 325mg	Yes	Yes

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital
18.	Tab. Paracetamol 500 mg	Yes	Yes
19.	Tab: Paracetamol 1000mg	Yes	Yes
20.	Syp. Paracetamol	Yes	Yes
21.	Inj. Paracetamol	No	Yes
22.	Inj. Nalbuphine	Yes	Yes
23.	Inj. Toradol	Yes	Yes
24.	Inj. Kinz 0.1 mg	No	Yes
	Anti-Allergic (Anaphylaxis)		
25.	Tab. Chlorpheniramine	Yes	Yes
	Inj. Chlorpheniramine	Yes	Yes
	Inj. Promethazine 25mg	No	Yes
	Syp. Chlorpheniramine	Yes	Yes
	Tab. Loratadine	No	Yes
	Syp. Loratadine	No	Yes
	Inj. Dexamethasone	Yes	Yes
——	Tab. Dexamethasone	Yes	Yes
	Epinephrine (Ampule)	Yes	Yes
	Inj. Hydrocortisone	Yes	Yes
35.	Tab. Prednisolone	Yes	Yes
	Antidotes and other substances used in p	T	T
	Atropine (Ampule)	Yes	Yes
	Charcoal Activated (Powder)	Yes	Yes
	Inj. Diazepam	Yes	Yes
39.	Naloxone (Ampule)	No	Yes
40	Anti-Epileptics /Anticonvulsants		1 ,
40.	Tab. Carbamazepine	No	Yes
	Syp. Carbamazepine	No	Yes
	Inj. Magnesium Sulphate (50%) Tab. Phenobarbital	Yes	Yes
43.	Inj. Phenobarbital	No No	Yes Yes
	Tab. Phenytoin	No	Yes
46.	Tab: Leviteracetam 500mg	No	Yes
40.	Antibiotics/Antimicrobial	INO	163
47.	Tab./Cap. Amoxicillin 250 mg	Yes	Yes
	Tab./Cap. Amoxicillin 500 mg	Yes	Yes
	Syp. Amoxicillin 300 ftig Syp. Amoxicillin (Powder for Suspension) 250 mg	Yes	Yes
	Syp. Amoxicilin (Powder for Suspension) 250 mg Syp. Amoxicillin (Powder for Suspension) 500 mg	Yes	Yes
	Inj. Amoxicillin 500 mg	Yes	No
	Cap. Ampicillin 250 mg	Yes	Yes
	Cap. Ampicillin 500 mg	Yes	Yes
54.	Tab. Calvanic Acid + Amoxicillin	Yes	Yes
-	Ampicillin (Powder for Suspension) 250 mg	Yes	Yes
	Ampicillin (Powder for Suspension) 500 mg	Yes	Yes
	Inj. Amikacin 15mg	No	Yes
	Inj Clindamycin	No	Yes
	Inj. Ampicillin 500 mg	No	Yes
	Inj. Benzathine Penicillin 6lakh unit	Yes	Yes
	Inj. Benzathine Penicillin 12lakh unit	Yes	Yes
62.	Tab: Penicillin V potassium 125 mg	No	Yes
	Inj. Cefazoline 2 g	No	Yes
	Inj. Ceftriaxone 80mg	No	Yes
	Inj. Cefoxitine 2g	No	Yes
	Inj.Cefotaxime 50mg	No	Yes

		Availabilit	y (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital
67.	Cap. Cefixime	No	Yes
68.	Tab. Ciprofloxacin 250 mg	Yes	Yes
	Tab. Ciprofloxacin 500 mg	Yes	Yes
70.	Syp. Ciprofloxacin 250 mg	Yes	Yes
71.	Inj. Ethionamide 250mg	No	Yes
72.	Inj. Prothionamide 250 mg	No	Yes
73.	Cap. Azithromycin	No	Yes
	Azithromycin (Suspension)	No	Yes
	Tab. Cotrimoxazole DS	Yes	Yes
76.	Syp. Cotrimoxazole	Yes	Yes
	Cap. Doxycycline	Yes	Yes
	lnj. Gentamicin 5 mg	Yes	Yes
	lnj. Gentamicin 2 mg	Yes	Yes
	Inj. Clindamycin 600mg	No	Yes
-	Inj. Clindamycin 900mg	No	Yes
	Inj. Vancomycin 15mg	No	Yes
	lnj. Benzylpenicillin 50,000 units	No	Yes
	Inj. Cloxacillin 50mg	No	Yes
	Inj. Moxifloxacin 400mg	No	Yes
	Inj. Piperacillin	No	Yes
	lnj. Tazobactum	No	Yes
	Inj. Gatifloxacin 400mg	No	Yes
	Inj. Chloramphenicol 25mg/kg	No	Yes
	Inj. Flucloxacillin 50mg	No	Yes
	Tab. Metronidazole 400 mg	Yes	Yes
	Inj. Metronidazole	No	Yes
	Syp. Metronidazole 200mg/60 ml	Yes	Yes
	Inj. Procaine penicillin	Yes	Yes
95.	Tab. Phenoxymethylpenicillin	No	Yes
0.0	Anti-Helminthic	V	
-	Tab. Mebendazole	Yes	Yes Yes
_	Tab. Flagyl	Yes	
	Inj. Flagyl Tab. Pyrantel	Yes Yes	Yes Yes
100.	Syp. Pyrantel	Yes	Yes
101.	Anti-Fungal Clotrimazole (Vaginal Cream)	No	Yes
	Clotrimazole (Vaginal Cleam) Clotrimazole (Vaginal Tablet)	Yes	Yes
	Clotrimazole (Vaginar rablet) Clotrimazole (Topical Cream)	Yes	Yes
	Tab. Nystatin	Yes	Yes
	Nystatin (Drops)	Yes	Yes
100.	Antivirals	103	1 103
106.	Tenofovir 300mg	No	Yes
	Entecavir 0.5 mg	No	Yes
	Sofosbuvir 400 mg	No	Yes
	Daclatasvir 60mg	No	Yes
	Anti-Tuberculosis Dru		
110.	Tab. Ethambutol	No	Yes
-	Ethambutol (Oral Liquid)	No	Yes
112.	Tab. Isoniazid	No	Yes
113.	Syp. Isoniazid	No	Yes
114.	Tab. Pyrazinamide	No	Yes
	Cap. Rifampicin	No	Yes

		Availability (Yes/No)		
		Tehsil Headquarter	District Headquarter	
Sr. No.	Medicine/Supplies	Hospital - A, B & C/	Hospital /	
		<50 bedded Private	>50 bedded Private	
		Hospital	Hospital	
	Syp. Rifampicin	No	Yes	
	Inj. Streptomycin	No	Yes	
	Tab. Ethambutol + Isoniazid	No	Yes	
	Tab. Isoniazid + Rifampicin	No	Yes	
120.	Tab. Isoniazid + Pyrazinamide + Rifampicin	No	Yes	
121.	Tab. Rifampicin + Isoniazid + Pyrazinamide + Ethambutol	No	Yes	
122.	Tab. Ethambutol + Isoniazid + Rifampicin	No	Yes	
	Inj. Isoniazid 1000mg	No	Yes	
	Inj. Ethinamide 15mg Inj. Prothionamide	No	Yes	
	Inj. Protnionamide Inj. Clofazmine	No	Yes Yes	
		No	Yes	
	Inj. Pyrazinamide 2000mg	No	Yes	
	Inj. Kanamycin 1000mg Inj. Amikacin 1000 mg	No No	Yes	
	Inj. Capreomycin 1000mg	No	Yes	
130.	Anti-Diabetics	INO	res	
131.	Tab. Glibenclamide 4 mg	No	Yes	
132.	Tab. Metformin 500 mg	Yes	Yes	
	Inj. Insulin Regular	Yes	Yes	
	Inj. Insulin Negurai	Yes	Yes	
134.	Anti-Malarial	163	163	
135.	Tab. Chloroquine	No	Yes	
	Syp. Chloroquine	No	Yes	
137.	Tab. Artemether + lumefantrine	No	Yes	
138.	Tab. Artesunate + Sulfadoxine + Pyrimethamine	Yes	Yes	
	Artemether (Ampule)	No	Yes	
	GIT Medicines			
140.	Inj. Hyoscine	Yes	Yes	
	Tab. Hyoscine	Yes	Yes	
	Inj. Zantac	Yes	Yes	
143.	Tab. Zantac 150mg	Yes	Yes	
	Tab. Metoclopramide	Yes	Yes	
	Syp. Metoclopramide	Yes	Yes	
146.	Inj. Metoclopramide	Yes	Yes	
147.	Cap. Omeprazole 40 mg	Yes	Yes	
148.	Inj. Omeprazole	Yes	Yes	
149.	Tab. Esomeprazole	Yes	Yes	
	Cap. Esomeprazole	Yes	Yes	
	Tab. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	
	Syp. Aluminium Hydroxide + Magnesium Trisilicate	Yes	Yes	
	Antacid Sodium citarate 30ml	Yes	Yes	
	Magnesium trisilicate 300 mg	Yes	Yes	
	ORS (Sachet)	Yes	Yes	
	Tab. Bisacodyl	Yes	Yes	
157.	Glycerine (Suppository)	Yes	Yes	
	Cardiovascular Medicines	1		
	Glyceryl Trinitrate (Sublingual)	Yes	Yes	
	Isosorbide Dinitrate (Sublingual)	Yes	Yes	
160.	Tab. Enalapril	No	No	
161.	Tab. Atenolol 50 mg	Yes	Yes	
162.	Tab. Methyldopa	Yes	Yes	
163.	Tab. Hydrochlorothiazide	Yes	Yes	
164.	Inj. Hydrochlorothiazide	Yes	Yes	

		Availability (Yes/No)		
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private	District Headquarter Hospital / >50 bedded Private	
		Hospital	Hospital	
165.	Tab. Furosemide 40 mg	Yes	Yes	
	Inj. Furosemide 40 mg	Yes	Yes	
167.	Tab. Captopril 25 mg	No	Yes	
168.	Tab. Amlodipine 5 mg	No	Yes Yes	
169. 170.	Tab. Simvastatin 40mg Inj. Dobutamine: 10ug	No No	Yes	
	Inj. dopamine; 40 mg: 10ug	No	Yes	
	Inj. Amiodarone 200mg	No	Yes	
	Inj. Adenosine 6mg	No	Yes	
	Inj. Verapamil 5mg	No	Yes	
	Inj. Atenolol 2.5 mg	No	Yes	
176.	Inj. Verapamil 20mg	No	Yes	
177.	Inj. Bisoprolol 2.5 mg	No	Yes	
178.	Tab. Captopril 12.5 mg	Yes	Yes	
179.	Tab. Lisinopril 10mg	Yes	Yes	
180.	Tab. Carvedilol 125mg	No	Yes	
181.	Tab. Nifedipine 20mg	No	Yes	
	Inj. Procainamide 20-25mg	No	Yes	
	Inj. Sotalol 100mg	No	Yes	
184.	Tab. Nitroglycerin 0.4mg	No	Yes	
185.	Tab. Diltiazem 0.25mg	No	Yes	
100	Medicines Affecting Coagulation	Vac		
	Inj. Tranexamic Acid 500 mg Cap. Tranexamic Acid 500 mg	Yes Yes	Yes Yes	
107.	Oxytocic Medicines	165	Tes	
188.	Tab. Misoprostol 25mcg	Yes	Yes	
	Vaginal Misoprostol 25mcg	Yes	Yes	
	Inj. Ergometrine	Yes	Yes	
191.	Inj. Oxytocin	Yes	Yes	
192.	Inj: Prostaglandin E2 (vial)	Yes	Yes	
	Respiratory Medicines			
	Tab. Salbutamol 4 mg	Yes	Yes	
	Salbutamol (Inhaler)	Yes	Yes	
	Ipratropium 500ug	No	Yes	
195.	Ammonium Chloride+ Chloroform + Menthol + Diphenhydramine + Sodium Citrate (Antitussive Expectorant)	Yes	Yes	
	Oral Prednisolone 30mg	Yes	Yes	
	Inj. Aminophylline	Yes	Yes	
198.	Oxygen Cylinder	Yes	Yes	
100	Ophthalmic Medicines	V	V	
	0.5% Chloramphenicol (Eye Drops)	Yes	Yes	
	Ciprofloxacin (Eye Drops) Betamethasone 0.5% w/v Neomycin eye drops	No Yes	Yes Yes	
201.	Tetracycline (Eye Ointment)	Yes	Yes	
203.	Tobramycin 0.3%	No	Yes	
	ENT Medicines	140	100	
204.	Boroglycerine (Ear Drops)	Yes	Yes	
	Polymyxin B + Lignocaine (Ear Drops)	Yes	Yes	
	Ciprofloxacin (Ear Drops)	Yes	Yes	
	Xylometazoline (Nasal Drops)	No	Yes	
	Antirheumatics Drugs			
208.	Tab. Methotrexate 7.5 mg	No	Yes	
209.	Tab. Hydroxychloroquine 400mg	No	Yes	

		Availability	y (Yes/No)
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital
210.	Tab. Leflunomide 10mg/20mg	No	Yes
	Sulfasalazine 1500mg-3000mg	No	Yes
212.	Tab. Prednisolone OR (suspension)	No	Yes
	I/V Infusions (Plasma Substitutes	5)	
213.	Plasma Expander (Infusion) 1000ml	No	Yes
214.	Glucose/Dextrose (Infusion) 1000ml	Yes	Yes
215.	Glucose/Dextrose (Ampule)	Yes	Yes
216.	Normal Saline (Infusion) 1000ml	Yes	Yes
217.	Dextrose + Saline (Infusion) 1000ml	Yes	Yes
218.	Ringer's Lactate (Infusion) 500ml	Yes	Yes
219.	Potassium Chloride (Solution) not in drip	Yes	Yes
220.	Inj. Sodium Bicarbonate	No	Yes
221.	Water for Injection (Ampule) not in drip	Yes	Yes
222.	Blood Products (Packed RBCs, Fresh Frozen Plasma Units)	No	Yes
	Vitamins, Minerals and Food supp	lements	
223.	Tab. Ascorbic Acid 500 mg	Yes	Yes
	Inj. Calcium Gluconate	Yes	Yes
224.	Tab. Calcium 100 mg	Yes	Yes
225.	Tab. Ergocalciferol (Vit. D)	Yes	Yes
226.	Tab. Ferrous fumarate	No	Yes
227.	Syp. Ferrous fumarate	Yes	Yes
228.	Tab. Folic Acid	No	Yes
229.	Tab. Ferrous salt + Folic Acid	Yes	Yes
230.	Inj. Vitamin K	No	Yes
231.	Vitamin A Supplement	No	Yes
232.	Tab. /Cap. Retinol (Vitamin A) after NIDs	Yes	Yes
233.	Tab. Zinc Sulphate	Yes	Yes
234.	Syrup Zinc	Yes	Yes
235.	Tab: Alendronate	No	Yes
236.	Tab. B Complex	Yes	Yes
	Tab. Multivitamins	Yes	Yes
238.	Multiple Micronutrients (Sachet)	Yes	Yes
	Ready to Use Treatment Food	Yes	Yes
240.	F100 and F75	No	Yes
	Dermatological		
	Benzyl Benzoate Lotion	Yes	Yes
	Betamethasone Cream/ Lotion	Yes	Yes
	Calamine Lotion	Yes	Yes
244.	Hydrocortisone Cream	Yes	Yes
	Polymyxin B + Bacitracin Zinc (Ointment)	Yes	Yes
246.	Silver Sulfadiazine Cream	Yes	Yes
	Medicines for Mental and Behavioural Disord	•	1
	Inj. Chlorpromazine	No	Yes
	Tab. Clomipramine	No	Yes
	Tab. Haloperidol	No	Yes
250.	Tab. Diazepam 2 mg	Yes	Yes
	Inj. Diazepam 10 mg	Yes	Yes
252.	Tab. Alprazolam 0.5 mg	No	Yes
250	Anxiolytics		l v
253.	Tab. Alprazolam 0.5 mg	Yes	Yes
254.	Tab. Diazepam 2 mg	Yes	Yes
255	Contraceptives	V	V
255.	Condoms	Yes	Yes

		Availability (Yes/No)	
Sr. No.	Medicine/Supplies	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital
256.	Ethynylestradiol + Norethisterone (Combined Oral Pills)	Yes	Yes
	Progesterone Only Pills (Levonorgestrel)	Yes	Yes
	Emergency Contraceptive Pills (Levonorgestrel)	Yes	Yes
259.	IUCD (Copper T/Multiload)	Yes	Yes
260.	Inj. Medroxyprogesterone Acetate (Dmpa)	Yes	Yes
261.	Inj. Norethisterone Enanthate (Net-En)	Yes	Yes
262.	Inj. Estradiol Cypionate + Medroxyprogesterone Acetate	Yes	Yes
263.	Levonorgestrel-Releasing Implant (Subdermal)	No	Yes
264.	Etonogestrel-Releasing Implant (Subdermal)	No	Yes
	Vaccines and Sera		
265.	BCG Vaccine	Yes	Yes
266.	Oral Polio Vaccine	Yes	Yes
267.	Injectable Polio Vaccine	Yes	Yes
268.	Hepatitis B Vaccine	Yes	Yes
269.	Measles Vaccine	Yes	Yes
270.	Tetanus Toxoid	Yes	Yes
271.	Pentavalent Vaccine	Yes	Yes
272.	Pneumococcal Vaccine	Yes	Yes
273.	Rota vaccine	Yes	Yes
274.	Anti-Rabies Vaccines (PVRV)	No	Yes
275.	Anti-Snake Venom Serum	No	Yes
	Disposables/Antiseptics/ Disinfecta	ints	
276.	Syringe 1 ml (Disposable)	Yes	Yes
277.	Syringe 3 ml (Disposable)	Yes	Yes
	Syringe 5 ml (Disposable)	Yes	Yes
279.	Syringe 10 ml (Disposable)	Yes	Yes
280.	Syringe 20 ml (Disposable)	Yes	Yes
281.	Syringe 50 ml (Disposable)	Yes	Yes
282.	IV Set	Yes	Yes
	Scalp Vein Set	Yes	Yes
	Volumetric Chamber (IV Burette)	Yes	Yes
285.	IV Cannula (18, 20,22 & 24G)	Yes	Yes
	Adhesive Tape	Yes	Yes
287.	Sterile Gauze Dressing	Yes	Yes
288.	Paper tape	No	Yes
	Antiseptic Lotion	Yes	Yes
	Cotton Bandage (3", 4" & 6")	Yes	Yes
	Absorbent Cotton Wool	Yes	Yes
	Crepe Bandage	Yes	Yes
	Examination Gloves (All sizes)	Yes	Yes
	Sterile Surgical Gloves (All sizes)	Yes	Yes
	Silk Sutures Sterile (2/0, 3/0, 4/0) with needle	Yes	Yes
	Chromic Catgut Sterile Sutures (different sizes) with needle	Yes	Yes
297.	Face Mask Disposable / Personal Protective Equipment	Yes	Yes
	Blood Lancets	Yes	Yes
	Slides	Yes	Yes
	Endotracheal Tube (different sizes)	Yes	Yes
	Nasogastric Tube (different sizes)	Yes	Yes
	Resuscitator Bag with Mask	Yes	Yes
	Disposable Airways (different sizes)	Yes	Yes
304.	Clean Delivery Kits	Yes	Yes

Item mentioned in Blue font is critical to ensure essential interventions

C: Essential Equipment, Supplies and Furniture – PHC centre level facilities

No. Equipment/Supplies Name Dispensary (Urban) Medical Centre Health Ce	RHC entre (Urban) Home (Pvt) Yes Yes Yes Yes Yes Yes					
Emergency & Routine 1. First Aid box Yes Yes Yes 2. Electric Oven Yes Yes Yes 3. Beds with mattress No Yes Yes 4. N95/ Surgical masks & Personal protective equipment Yes Yes 5. Emergency OT light No Yes 6. Oxygen Cylinder with flow- meter Yes Yes 7. Ambu Bag (Paediatric) Yes Yes 8. Ambu Bag (Adult) Yes Yes 9. Suction Machine Heavy Duty Yes Yes 10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) Yes Yes 12. Oral Air Way (all sizes) Yes Yes 13. Resuscitation Trolley	Yes Yes Yes					
1.First Aid boxYesYes2.Electric OvenYesYes3.Beds with mattressNoYes4.N95/ Surgical masks & Personal protective equipmentYesYes5.Emergency OT lightNoYes6.Oxygen Cylinder with flow- meterYesYes7.Ambu Bag (Paediatric)YesYes8.Ambu Bag (Adult)YesYes9.Suction Machine Heavy DutyYesYes10.Laryngoscope with 4 blades (Adult & YesYesYes11.Endotracheal tubes (all sizes)YesYes12.Oral Air Way (all sizes)YesYes13.Resuscitation TrolleyYesYes	Yes Yes Yes					
2. Electric Oven Yes Yes 3. Beds with mattress No Yes 4. N95/ Surgical masks & Personal protective equipment Yes Yes 5. Emergency OT light No Yes 6. Oxygen Cylinder with flow- meter Yes Yes 7. Ambu Bag (Paediatric) Yes Yes 8. Ambu Bag (Adult) Yes Yes 9. Suction Machine Heavy Duty Yes Yes 10. Laryngoscope with 4 blades (Adult & Yes Yes Yes 11. Endotracheal tubes (all sizes) Yes Yes 12. Oral Air Way (all sizes) Yes Yes 13. Resuscitation Trolley Yes Yes	Yes Yes Yes					
4. N95/ Surgical masks & Personal protective equipment 5. Emergency OT light No Yes 6. Oxygen Cylinder with flow- meter Yes Yes 7. Ambu Bag (Paediatric) Yes Yes 8. Ambu Bag (Adult) Yes Yes 9. Suction Machine Heavy Duty Yes Yes 10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) Yes Yes 12. Oral Air Way (all sizes) Yes Yes 13. Resuscitation Trolley Yes Yes	Yes					
4. equipment 5. Emergency OT light 6. Oxygen Cylinder with flow- meter 7. Ambu Bag (Paediatric) 8. Ambu Bag (Adult) 9. Suction Machine Heavy Duty 10. Laryngoscope with 4 blades (Adult & Peds) 11. Endotracheal tubes (all sizes) 12. Oral Air Way (all sizes) 13. Resuscitation Trolley Yes Yes Yes Yes Yes Yes Yes Y						
6. Oxygen Cylinder with flow- meter Yes Yes 7. Ambu Bag (Paediatric) Yes Yes 8. Ambu Bag (Adult) Yes Yes 9. Suction Machine Heavy Duty Yes Yes 10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) Yes Yes 12. Oral Air Way (all sizes) Yes Yes 13. Resuscitation Trolley Yes Yes	Yes					
7. Ambu Bag (Paediatric) Yes Yes 8. Ambu Bag (Adult) Yes Yes 9. Suction Machine Heavy Duty Yes Yes 10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) Yes Yes 12. Oral Air Way (all sizes) Yes Yes 13. Resuscitation Trolley Yes Yes						
8. Ambu Bag (Adult) 9. Suction Machine Heavy Duty 10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) 12. Oral Air Way (all sizes) 13. Resuscitation Trolley Yes Yes Yes Yes Yes Yes Yes Yes	Yes					
9. Suction Machine Heavy Duty 10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) 12. Oral Air Way (all sizes) 13. Resuscitation Trolley Yes Yes Yes Yes Yes Yes Yes	Yes					
10. Laryngoscope with 4 blades (Adult & Yes Yes 11. Endotracheal tubes (all sizes) Yes Yes 12. Oral Air Way (all sizes) Yes Yes 13. Resuscitation Trolley Yes Yes	Yes					
10. Peds) 11. Endotracheal tubes (all sizes) 12. Oral Air Way (all sizes) 13. Resuscitation Trolley Yes Yes Yes Yes Yes Yes Yes	Yes					
12.Oral Air Way (all sizes)YesYes13.Resuscitation TrolleyYesYes	Yes					
13. Resuscitation Trolley Yes Yes	Yes					
13. Resuscitation Trolley Yes Yes	Yes					
14. Nebulizer Yes Yes	Yes					
	Yes					
15. Stethoscope Yes Yes	Yes					
16. BP Apparatus (Dial) Yes Yes	Yes					
17. BP apparatus Mercury (Adult & Paeds) Yes Yes	Yes					
18. Dressing Set for Ward Yes Yes	Yes					
19. Thermometer Clinical/ Infra-red Yes Yes Yes (a	and Rectal)					
20. Torch with batteries Yes Yes	Yes					
21. Macintosh sheets Yes Yes	Yes					
22. Drip stands Yes Yes	Yes					
23. Instrument Trolley Yes Yes	Yes					
Growth Monitoring / Labour Room						
24. Soap and soap tray Yes Yes	Yes					
25. Weighing machine (salter) Yes Yes	Yes					
26. Weighing machine (Adult) Yes Yes	Yes					
27. Weighing machine (tray) Yes Yes	Yes					
28. Height-weight machine Yes Yes	Yes					
29. ORT Corner Yes Yes	Yes					
30. Feeding bowls, glasses & spoons Yes Yes	Yes					
31. Plain Scissors Yes Yes	Yes					
32. Demonstration table No No	Yes					
33. Delivery table (Labour Room) No Yes	Yes					
Delivery set (each contain) Partogram Kocher Clamp 6 inch Plain Scissors 34. Tooth Forceps 1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch	Yes					
D&C set (each Contain)						
Metallic Catheter						
35. Uterine Sound Yes Yes						
Sim's Speculum medium	Yes					

Set D&E Sponge Holders Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Bowl 10 inch Vulsellum 8 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries Caesarean Section Set (each Contain) Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Straight 8 inch Kocher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch	Availability (Yes/No)		
Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Bowl 10 inch Vulsellum 8 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries Caesarean Section Set (each Contain) Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Straight 8 inch Kocher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch	RHC Health Centre (Urban) Nursing Home (Pvt)		
Needle Holder 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Knife Holder 4 number Plain Forceps 7 inch Tooth Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Vacuum Suction Apparatus Baby Resuscitation Apparatus Adult weighing scale Electric Suction Machine Autoclave Fetal Heart Detector Obs/Gyne: General Set Dressing Set for Ward Eclampsia beds with railing Baby Intubation set Examination Couch with wooden stairs Mucus Extractor Neonatal Resuscitation Trolley Incubator Macintosh sheets	Yes		
Torch with batteries			
Inpatient (Beds/Wards)	Vaa		
37. Bed with side table/locker No Yes 38. Electric Suction Machine Yes Yes	Yes Yes		
38. Electric Suction Machine Yes Yes 39. Electric Sterilizer Oven Yes Yes	res		
40. Oxygen Cylinder with flowmeter and Stand Yes Yes			
41. Stretcher Yes Yes	Yes Yes		

		Availability (Yes/No)		
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban) Nursing Home (Pvt)
42.	Examination Couch with wooden stairs	Yes	Yes	Yes
43.	Wheelchair	Yes	Yes	Yes
44.	Patient Screen	Yes	Yes	Yes
45.	Air Ways (different sizes)	Yes	Yes	Yes
46.	Suction Pump (Manual)	Yes	Yes	Yes
47.	Drip Stand	Yes	Yes	Yes
			Procedure Room	Operation Theatre
48.	Examination Couch with wooden stairs	No	Yes	No
49.	Hydraulic Operation Table	No	No	Yes
50.	OT Light	No	No	Yes
51.	Gel for ultrasound	No	Yes	Yes
52.	ECG machine and roll	No	Yes	Yes
53.	Shadow less Lamps with 9 Illuminators	No	No	Yes
54.	Anaesthesia machine with ventilator	No	No	Yes
55.	Multi-parameter	No	No	Yes
56.	McGill forceps	No	No	Yes
57.	Patient Trolley	No	No	Yes
58.	Oxygen Cylinder (large size with regulator)	No	No	Yes
59.	Oxygen Cylinder (medium size with regulator)	No	Yes	Yes
60.	Nitrous oxide cylinder with regulator	No	No	Yes
61.	Instrument trolley	Yes	Yes	Yes
62.	Dressing Drum (large size)	Yes	Yes	Yes
63.	Stands for Dressing	Yes	Yes	Yes
64.	Basin	Yes	Yes	Yes
65.	Basin stands	Yes	Yes	Yes
66.	Towel Clips	No	Yes	Yes
67.	BP handle	No	Yes	Yes
68.	BP Blades	No	Yes	Yes
69.	Dissecting Forceps (Plain)	No	Yes	Yes
70.	Needle Holder (Large size)	No	Yes	Yes
71.	Sponge Holder Forceps (large)	No	Yes	Yes
72.	Skin Retractor (small size)	No	Yes	Yes
73.	Metallic Catheter (1-12)	No	Yes	Yes
74.	Dilator Complete Set	No	Yes	Yes
75.	Surgical Scissors (various size)	No No	Yes	Yes
76.	Proctoscope	No	Yes	Yes
77.	Thames Splint V.S	No	Yes	Yes
78.	Rubber Sheet Scalpels 6"	No	Yes	Yes
79. 80.	Allis Forceps Long	No No	Yes Yes	Yes Yes
80.	Allis Forceps 6 inches	No	Yes	Yes
82.	Chaetal Sterilize Forceps 10" long	No	Yes	Yes
83.	Introducer for Catheter	No	Yes	Yes
84.	Smith Homeostatic Forceps Curved	No	Yes	Yes
85.	Arm Splint different sizes	No No	Yes	Yes
86.	Instrument Cabinet	No	Yes	Yes
87.	Spotlight	No	Yes	Yes
88.	Hand Scrub set with chemical	No	Yes	Yes
89.	Thermometer	No	Yes	Yes
90.	Laryngoscope adult/peds	No	Yes	Yes
50.	Lai yiigoscope addit/ peds	140	163	162

			Availability (Yes/No)	
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban) Nursing Home (Pvt)
91.	Kidney Tray S.S	No	Yes	Yes
92.	Stand for Drip	No	Yes	Yes
93.	Bucket	No	Yes	Yes
94.	Air Cushion (Rubber)	No	Yes	Yes
95.	Gastric Tube	No	Yes	Yes
96.	Macintosh sheets	Yes	Yes	Yes
97.	Torch with batteries	Yes	Yes	Yes
98.	Urine Collection Bags instrument trolley	No	Yes	Yes
99.	Generator	No	Yes	Yes
100.	Air-Conditioner (split 1.5 tons)	No	Yes	Yes
				al Unit
101.	Dental Chair	No	Yes	Yes
102.	Light	No	Yes	Yes
103.	Torch with batteries	No	Yes	Yes
104.	Hand piece unit	No	Yes	Yes
105.	Suction	No	Yes	Yes
106.	Compressor	No	Yes	Yes
107.	Dental hand instruments (set)	No	Yes	Yes
108.	Aseptic Trolley	No	Yes	Yes
109.	Dental Autoclave	No	Yes	Yes
110.	Amalgamator	No	Yes	Yes
111.	Dental X-ray unit	No	Yes	Yes
112.	Intraoral X-ray film Processor	No	Yes	Yes
113.	X-ray view box	No	Yes	Yes
114. 115.	Lead apron Ultrasonic Scalar	No No	Yes Yes	Yes Yes
116.	Dental Operating stool	No	Yes	Yes
117.	Ultraviolet sterilizer	No	Yes	Yes
117.		ab Equipment and Rea		163
110		• •	ĭ	l v
118. 119.	Centrifuge (Bench Top) Centrifuge Machine	No No	No No	Yes Yes
		No No	Yes	Yes
120. 121.	Stopwatch Ice Lined Refrigerator (ILR)	Yes	Yes	Yes
121.	Small refrigerator	Yes	Yes	Yes
123.	X-ray Machine	No	Yes	Yes
124.	Dark room accessories	No	Yes	Yes
125.	X-ray films (All Size)	No	Yes	Yes
126.	X-ray illuminator	No	Yes	Yes
127.	Needle cutter/ Safety Boxes	No	Yes	Yes
128.	Availability of Ultrasound & ECG Services	No	Yes	Yes
129.	Laboratory Chemicals	Yes	Yes	Yes
130.	Binocular Microscope	Yes	Yes	Yes
131.	Urine meter (bag)	Yes	Yes	Yes
132.	DLC Counter	Yes	Yes	Yes
133.	Haemocytometer	Yes	Yes	Yes
134.	ESR Racks	Yes	Yes	Yes
135.	ESR Pipettes	Yes	Yes	Yes
136.	Water Bath	Yes	Yes	Yes
137.	Centrifuge Tubes (Plastic)	No	Yes	Yes
138.	Centrifuge Tubes (Glass)	No	Yes	Yes
139.	Glass Pipettes various sizes corrected	No	Yes	Yes
140.	Jester Pipettes Fixed – various sizes	No	Yes	Yes

		Availability (Yes/No)			
Sr. No.	Equipment/Supplies Name	8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban) Nursing Home (Pvt)	
141.	Jester Pipettes Adjustable – various sizes	Yes	Yes	Yes	
142.	Sputum collection containers	Yes	Yes	Yes	
143.	Urine collection containers	Yes	Yes	Yes	
144.	Test tubes including blood sample tubes	Yes	Yes	Yes	
145.	Test Tube Racks	Yes	Yes	Yes	
146.	Pipette Stands	Yes	Yes	Yes	
147.	Hemoglobinometer	Yes	Yes	Yes	
148.	Table lamp	No	Yes	Yes	
149.	Lancets (pack)	Yes	Yes	Yes	
150.	Tube Sealer	No	Yes	Yes	
151.	Blood grouping Viewing Box	No	Yes	Yes	
152.	Surgical Blades	No	Yes	Yes	
153. 154.	Test Tube Holder Baskets	Yes No	Yes Yes	Yes Yes	
154.	Wooden Boxes	No	Yes	Yes	
156.	Hepatitis B & C and HIV AIDS Kits	No	Yes	Yes	
157.	Reagent	No	Yes	Yes	
158.	Gas Burner	Yes	Yes	Yes	
159.	Stainless-Steel Test-Tube Racks	No	Yes	Yes	
160.	Wooden Slides Box	Yes	Yes	Yes	
161.	Glucometer and sticks	Yes	Yes	Yes	
162.	Urine Testing kits	Yes	Yes	Yes	
163.	RDT for Malaria	Yes	Yes	Yes	
		Linen			
164.	Bedsheet	Yes	Yes	Yes	
165.	Pillow	Yes	Yes	Yes	
166.	Pillow cover	Yes	Yes	Yes	
167.	Towel (large and small)	Yes	Yes	Yes	
168.	Tablecloth	Yes	Yes	Yes	
169.	Blanket	Yes	Yes	Yes	
170.	Curtain	Yes	Yes	Yes	
171.	Dusting cloth	Yes	Yes	Yes	
172.	Blinds	Yes	Yes	Yes	
173.	Overcoat	Yes	Yes	Yes	
174.	Staff Uniform	Yes	Yes	Yes	
		Transport	1		
175.	Ambulance	Yes (in selected BHUs)	Yes	Yes	
176.	Jeep for field activities	No	No	Yes	
177.	Motorcycle for field activities	Yes	Yes	Yes	
178.	LHS vehicle	Yes	Yes	Yes	
		Miscellaneous		ı	
179.	Office tables	Yes	Yes	Yes	
180.	Officer Chairs	Yes	Yes	Yes	
181.	Bench	Yes	Yes	Yes	
182.	Blinds, Curtains, Screens for privacy	Yes	Yes	Yes	
183.	Steel Almirah	Yes	Yes	Yes	
184.	Wooden File Racks	Yes	Yes	Yes	
185.	Four-Seater Chairs Fog machine 60 litre	Yes Yes	Yes Yes	Yes Yes	
186. 187.	Spray pumps (2)	Yes (2)	Yes (4)	Yes (8)	
10/.	Spray puritys (2)	Yes	Yes (4)	Yes (8)	
188.	Invertor AC	(2 for patient waiting	(3 for patient waiting	(9 for patient waiting	
		12 for patient waiting	(5 tot patient waiting	(5 for patient waiting	

		Availability (Yes/No)			
Sr. Equipment/Supplies Name		8/6 BHU (Rural) Dispensary (Urban) GP Clinic (Pvt)	24/7 BHU Medical Centre (Urban) Medical centre (Pvt)	RHC Health Centre (Urban) Nursing Home (Pvt)	
		area)	area and labour room)	areas and Indoor and OT)	
189.	Facility board/s	Yes	Yes	Yes	
190.	Services availability board/s	Yes	Yes	Yes	
191.	Room name plates	Yes	Yes	Yes	
192.	Stationary and stationary items	Yes	Yes	Yes	
193.	Table set and Pens	Yes	Yes	Yes	
194.	Paper ream	Yes	Yes	Yes	
195.	Health education display in waiting areas	Yes	Yes	Yes	
196.	LCDs	Yes (1)	Yes (2)	Yes (6)	
197.	Protocol display and chart booklets in provider's rooms	Yes	Yes	Yes	
198.	Fire extinguisher	Yes	Yes	Yes	
199.	Gardening tools	Yes	Yes	Yes	

D. Essential Equipment, Supplies and Furniture – at First Level Hospital

		Availability (Yes/No)			
Sr. No.	Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
	Emergend	cy and Routine			
1.	First Aid box	Yes	Yes		
2.	Electric Oven	Yes	Yes		
3.	Beds with mattress	Yes	Yes		
4.	N95/ Surgical masks & Personal protective equipment	Yes	Yes		
5.	Emergency OT light	Yes	Yes		
6.	Torch with batteries	Yes	Yes		
7.	Oxygen Cylinder with flow- meter	Yes	Yes		
8.	Ambu Bag (Paediatric)	Yes	Yes		
9.	Ambu Bag (Adult)	Yes	Yes		
10.	Suction Machine Heavy Duty	Yes	Yes		
11.	Laryngoscope with 4 blades (Adult & Peds)	Yes	Yes		
12.	Endotracheal tubes (all sizes)	Yes	Yes		
13.	Oral Air Way (all sizes)	Yes	Yes		
14.	Resuscitation Trolley	Yes	Yes		
15.	Nebulizer	Yes	Yes		
16.	Stethoscope	Yes	Yes		
17.	BP Apparatus (Dial)	Yes	Yes		
18.	BP apparatus Mercury (Adult & Paeds)	Yes	Yes		
19.	Dressing Set for Ward	Yes	Yes		
20.	Thermometer Clinical	Yes	Yes		
21.	Drip stands	Yes	Yes		
22.	Instrument Trolley	Yes	Yes		
	Growth Monito	oring / Labour Room			
23.	Soap and soap tray	Yes	Yes		
24.	Weighing machine (salter)	Yes	Yes		
25.	Weighing machine (Adult)	Yes	Yes		
26.	Weighing machine (tray)	Yes	Yes		
27.	Height-weight machine	Yes	Yes		
28.	ORT Corner	Yes	Yes		
29.	Feeding bowls, glasses & spoons	Yes	Yes		
30.	Plain Scissors	Yes	Yes		

	Availability (Yes/No)			
Equipment/Supplies/ Furniture	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
Demonstration table	Yes	Yes		
Delivery table (Labour Room)	Yes	Yes		
Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps				
1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch Macintosh sheets Torch with batteries	Yes	Yes		
D&C set (ea	ach Contain)			
Uterine Sound Sim's Speculum medium Set D&E Sponge Holders Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Bowl 10 inch Vulsellum 8 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries	Yes Set (each Contain)	Yes		
Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Straight 8 inch Kocher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch Needle Holder 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Knife Holder 4 number Plain Forceps 7 inch Tooth Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Vacuum Suction Apparatus Baby Resuscitation Apparatus Adult weighing scale Electric Suction Machine Autoclave Fetal Heart Detector	Yes	Yes		
	Demonstration table Delivery table (Labour Room) Delivery set (each contain) Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps 1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch Macintosh sheets Torch with batteries D&C set (external description of the mode) Metallic Catheter Uterine Sound Sim's Speculum medium Set D&E Sponge Holders Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Bowl 10 inch Vulsellum 8 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries Caesarean Section Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Curved 8 inch Nocher Clamp Curved 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Needle Holder 7 inch Kocher Clamp Curved 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Knife Holder 4 number Plain Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Vacuum Suction Apparatus Baby Resuscitation Apparatus Baby Resuscitation Apparatus Adult weighing scale Electric Suction Machine Autoclave	Equipment/Supplies/ Furniture Demonstration table Demonstration table Delivery table (Labour Room) Delivery table (Labour Room) Partogram Kocher Clamp 6 inch Plain Scissors Tooth Forceps 1 Kidney Tray Needle Holder 7 inch Medium size Bowl Outlet Forceps 8 inch Macintosh sheets Torch with batteries D&C set (each Contain) Metallic Catheter Uterine Sound Sim's Speculum medium Set D&E Sponge Holders Hagar's Dilator 0-8 cm Kidney Tray Bowl 4 inch Set Uterine Curette Plain Forceps 8 inch Macintosh sheets Torch with batteries Caesarean Section Set (each Contain) Doven's retractor Green Army tag Big Bowl Cord Clamp 7 inch Kocher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Scher Clamp Curved 8 inch Towel Clip Artery Forceps 6 inch Allis Tissue Forceps 8 inch Needle Holder 6 inch Kidney Tray Bowl 4 inch Vulsellum 8 inch Set Otter Clamp Curved 8 inch Towel Clip Artery Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Vulsellum 8 inch Knife Holder 4 number Plain Forceps 7 inch Curve Scissors Thread Cutting Scissors Sponge Holder 10 inch Aultu Meighing Scale Electric Suction Apparatus Baby Resuscitation Apparatus		

		Availability (Yes/No			No)	
Sr. No.	Equipment/Supplies/ Furniture	Hospi	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital		District Headquarter Hospital / >50 bedded Private Hospital	
	Eclampsia beds with railing Baby Intubation set Examination Couch with wooden stairs Mucus Extractor					
	Neonatal Resuscitation Trolley Incubator					
	Macintosh sheets Torch with batteries					
		ent (Beds/Wards)	- I		
36.	Bed with side table/locker		Yes		Yes	
37.	Electric Suction Machine		Yes	+	Yes	
38.	Electric Sterilizer Oven		Yes		Yes	
39.	Oxygen Cylinder with flowmeter and Stand		Yes		Yes	
40.	Stretcher Examination Couch with wooden stairs		Yes Yes	+	Yes Yes	
42.	Wheelchair		Yes		Yes	
43.	Patient Screen		Yes	+	Yes	
44.	Air Ways (different sizes)		Yes	+	Yes	
45.	Suction Pump (Manual)		Yes		Yes	
46.	Drip Stand		Yes		Yes	
		Procedure	Operation	Procedure	Operation	
		Room	Theatre	Room	Theatre	
47.	Examination Couch with wooden stairs	Yes	Yes	Yes	No	
48.	Hydraulic Operation Table	No	Yes	No	Yes	
49.	OT Light	Yes	Yes	Yes	Yes	
50. 51.	Gel for ultrasound ECG machine and roll	Yes Yes	Yes Yes	Yes Yes	Yes Yes	
52.	Shadow less Lamps with 9 Illuminators	No	Yes	Yes	Yes	
53.	Anaesthesia machine with ventilator	No	Yes	Yes	Yes	
54.	Multi-parameter	No	Yes	Yes	Yes	
55.	McGill forceps	Yes	Yes	Yes	Yes	
56.	Patient Trolley	Yes	Yes	Yes	Yes	
57.	Oxygen Cylinder (large size with regulator)	No	Yes	Yes	Yes	
58.	Oxygen Cylinder (medium size with regulator)	Yes	Yes	Yes	Yes	
59.	Nitrous oxide cylinder with regulator	Yes	Yes	Yes	Yes	
60.	Instrument trolley	Yes	Yes	Yes	Yes	
61. 62.	Dressing Drum (large size) Stands for Dressing	Yes Yes	Yes Yes	Yes Yes	Yes Yes	
63.	Basin	Yes	Yes	Yes	Yes	
64.	Basin stands	Yes	Yes	Yes	Yes	
65.	Towel Clips	Yes	Yes	Yes	Yes	
66.	BP handle	Yes	Yes	Yes	Yes	
67.	BP Blades	Yes	Yes	Yes	Yes	
68.	Dissecting Forceps (Plain)	Yes	Yes	Yes	Yes	
69.	Needle Holder (Large size)	Yes	Yes	Yes	Yes	
70.	Sponge Holder Forceps (large)	Yes	Yes	Yes	Yes	
71.	Skin Retractor (small size)	Yes	Yes	Yes	Yes	
72. 73.	Metallic Catheter (1-12) Dilator Complete Set	Yes Yes	Yes Yes	Yes Yes	Yes Yes	
74.	Surgical Scissors (various size)	Yes	Yes	Yes	Yes	
75.	Proctoscope	Yes	Yes	Yes	Yes	
76.	Thames Splint V.S	Yes	Yes	Yes	Yes	
77.	Rubber Sheet	Yes	Yes	Yes	Yes	

			Availability (Yes/No)			
Sr. No.	Equipment/Supplies/ Furniture	Hospi	Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital		District Headquarter Hospital / >50 bedded Private Hospital	
79.	Allis Forceps Long	Yes	Yes	Yes	Yes	
80.	Allis Forceps 6 inches	Yes	Yes	Yes	Yes	
81.	Chaetal Sterilize Forceps 10" long	Yes	Yes	Yes	Yes	
82.	Introducer for Catheter	Yes	Yes	Yes	Yes	
83.	Smith Homeostatic Forceps Curved	Yes	Yes	Yes	Yes	
84.	Arm Splint different sizes	Yes	Yes	Yes	Yes	
85.	Instrument Cabinet	Yes	Yes	Yes	Yes	
86.	Spotlight	Yes	Yes	Yes	Yes	
87.	Hand Scrub set with chemical	Yes	Yes	Yes	Yes	
88.	Thermometer	Yes	Yes	Yes	Yes	
89.	Laryngoscope adult/peds	Yes	Yes	Yes	Yes	
90.	Kidney Tray S.S	Yes	Yes	Yes	Yes	
91.	Stand for Drip	Yes	Yes	Yes	Yes	
92.	Bucket	Yes	Yes	Yes	Yes	
93.	Air Cushion (Rubber)	Yes	Yes	Yes	Yes	
94.	Macintosh sheets	Yes	Yes	Yes	Yes	
95.	Torch with batteries	Yes	Yes	Yes	Yes	
96.	Gastric Tube	Yes	Yes	Yes	Yes	
97.	Urine Collection Bags instrument trolley	Yes	Yes	Yes	Yes	
98.	Generator	No	Yes	Yes	Yes	
99.	Air-Conditioner (split 1.5 tons)	Yes	Yes	Yes	Yes	
		al Unit				
100.	Dental Chair		Yes		Yes	
101.	Light		Yes	Yes		
102.	Torch with batteries		Yes		Yes	
103.	Hand piece unit	Yes			Yes	
104.	Suction	Yes			Yes	
105.	Compressor	Yes			Yes	
106.	Dental hand instruments (set)	Yes			Yes	
107.	Aseptic Trolley	Yes			Yes	
108. 109.	Dental Autoclave	Yes			Yes	
1109.	Amalgamator Pontal V ray unit	No Yes			Yes Yes	
110.	Dental X-ray unit Intraoral X-ray film Processor	No No			Yes	
112.	X-ray view box				Yes	
113.	Lead apron	No Yes		Yes		
114.	Ultrasonic Scalar		No	Yes		
115.	Dental Operating stool		Yes	Yes		
116.	Ultraviolet sterilizer		No	Yes		
110.	Lab Equipme	nt and Reage			100	
117.	Centrifuge (Bench Top)		Yes		No	
117.	Centrifuge (Bench 10p) Centrifuge Machine	1	Yes		No	
119.	Stopwatch	 	Yes		Yes	
120.	Ice Lined Refrigerator (ILR)	Yes		Yes		
121.	Small refrigerator	Yes		Yes		
122.	X-ray Machine	Yes		Yes		
123.	Dark room accessories	1	Yes	Yes		
124.	X-ray films (All Size)	Yes			Yes	
125.	X-ray illuminator		Yes		Yes	
126.	Needle cutter/ Safety Boxes	1	Yes		Yes	
127.	Availability of Ultrasound & ECG Services		Yes		Yes	
128.	Laboratory Chemicals		Yes		Yes	
129.	Binocular Microscope		Yes	Yes		
130.	Urine meter (bag)		Yes		Yes	
	(0)	1		ı	=	

1312 Haberopotymeter			Availability (Yes/No)			
1322 Haemocytometer		Equipment/Supplies/ Furniture	Hospital - A, B & C/			
133						
SER Pipertes						
135. Water Bath						
1365				L .		
1372 Centringe Tubes (Glass) Yes Yes Yes Yes 138. Glass Pipettes various sizes corrected Yes Yes Yes 139. Jester Pipettes Fixed - Various sizes Yes Yes						
Silass Pipettes various sizes corrected Yes Yes						
Jester Pipettes Adjustable - various sizes		• ,				
141. Sputum collection containers Yes Ye						
1432						
143. Test tubes including blood sample tubes						
Test Tube Racks						
145. Pipette Stands						
146. Hemoglobinometer						
148		•				
148. Lancets (pack) Yes Yes Yes 149. Tube Sealer No Yes Yes 149. Tube Sealer No Yes Yes Yes 151. Surgical Blades No Yes Yes Yes Yes 152. Test Tube Holder Yes Yes Yes Yes 153. Baskets No Yes Yes 154. Wooden Boxes No Yes Yes Yes Yes 154. Wooden Boxes No Yes Yes Yes Yes Yes 156. Reagent No Yes Yes Yes Yes 157. Gas Burner Yes Yes Yes Yes 158. Stainless-Steel Test-Tube Racks No Yes Yes Yes 160. Glucometer and sticks Yes Yes Yes Yes 161. Urine Testing kits Yes Yes Yes Yes Yes 162. RDT for Malaria Yes Yes Yes Yes 164. Pillow Yes Yes Yes 166. Towel (large and small) Yes Yes Yes 167. Tablecloth Yes Yes Yes 168. Blanket Yes Yes Yes 169. Curtain Yes Yes Yes 170. Dusting cloth Yes Yes Yes 171. Blinds Yes Yes Yes 172. Overcoat Yes Yes Yes Yes 173. Staff Uniform Yes Yes Yes 174. Ambulance Yes Yes Yes 175. Jeep for field activities Yes Yes Yes 175. Jeep for field activities Yes Yes 175. Office tables Yes Yes 178. Office tables Yes Yes 179. Officer Chairs Yes Yes Yes 179. Officer Chairs Yes Yes 179. Officer Chairs Yes Yes Yes Yes 179. Officer Chairs Yes Yes Yes Yes Yes Yes 179. Officer Chairs Yes Yes Yes Yes 179. Officer Chairs Yes Yes Yes Yes 179. Officer Chairs Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye						
149. Tube Sealer		·				
150. Blood grouping Viewing Box		7		!		
151. Surgical Blades		Blood grouping Viewing Box		Yes		
153. Baskets	151.		No	Yes		
154. Wooden Boxes	152.	Test Tube Holder	Yes	Yes		
155. Hepatitis B & C and HIV AIDS Kits	153.	Baskets	No	Yes		
156. Reagent	154.	Wooden Boxes	No	Yes		
157. Gas Burner	155.	Hepatitis B & C and HIV AIDS Kits	Yes	Yes		
158. Stainless-Steel Test-Tube Racks No Yes 159. Wooden Slides Box Yes Yes 160. Glucometer and sticks Yes Yes 161. Urine Testing kits Yes Yes 162. RDT for Malaria Yes Yes Linen 163. Bedsheet Yes Yes 164. Pillow Yes Yes 165. Pillow cover Yes Yes 166. Towel (large and small) Yes Yes 167. Tablecloth Yes Yes 168. Blanket Yes Yes 169. Curtain Yes Yes 170. Dusting cloth Yes Yes 171. Blinds Yes Yes 172. Overcoat Yes Yes 173. Staff Uniform Yes Yes 174. Ambulance Yes Yes 175. Jeep for field activities No No 176. Motorcycle for field activities Yes Yes 177. LHS Vehicles (If LHWP functional at THQ/DHQ hospital) Yes <td< td=""><td></td><td>Reagent</td><td>No</td><td>Yes</td></td<>		Reagent	No	Yes		
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160. Glucometer and sticks Yes Yes 161. Urine Testing kits Yes Yes 162. RDT for Malaria Yes Yes Linen 163. Bedsheet Yes Yes 164. Pillow Yes Yes 165. Pillow cover Yes Yes 166. Towel (large and small) Yes Yes 167. Tablecloth Yes Yes 168. Blanket Yes Yes 169. Curtain Yes Yes 170. Dusting cloth Yes Yes 171. Blinds Yes Yes 172. Overcoat Yes Yes 173. Staff Uniform Yes Yes Transport 174. Ambulance Yes Yes 175. Jeep for field activities No No 176. Motorcycle for field activities Yes Yes<			No			
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179. Officer Chairs Yes Yes	178			Yes		
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	Equipment/Supplies/ Furniture	Availability (Yes/No)			
Sr. No.		Tehsil Headquarter Hospital - A, B & C/ <50 bedded Private Hospital	District Headquarter Hospital / >50 bedded Private Hospital		
181.	Blinds, Curtains, Screens for privacy	Yes	Yes		
182.	Steel Almirah	Yes	Yes		
183.	Wooden File Racks	Yes	Yes		
184.	Four-Seater Chairs	Yes	Yes		
185.	Fog machine 60 litre	Yes	Yes		
186.	Spray pumps (2)	Yes (8)	Yes (16)		
187.	Invertor AC	Yes	Yes		
188.	Facility board/s	Yes	Yes		
189.	Services availability board/s	Yes	Yes		
190.	Room name plates	Yes	Yes		
191.	Stationary and stationary items	Yes	Yes		
192.	Table set and Pens	Yes	Yes		
193.	Paper ream	Yes	Yes		
194.	Health education display in waiting areas	Yes	Yes		
195.	LCDs	Yes	Yes		
196.	Protocol display & chart booklets in provider's rooms	Yes	Yes		
197.	Fire extinguisher	Yes	Yes		
198.	Gardening tools	Yes	Yes		







AZAD JAMMU & KASHMIR

















