PC-1

Balance Work of Revamping of DHQ Hospital Khushab

ORIGINAL APPROVED COST	**PKR Million. 100.653/-**
ORIGINAL APPROVED GESTATION	**43 Months** **Till June 2025**
APPROVAL FORUM	**DDSC (DDSC)**

1. NAME OF THE PROJECT

Balance Work of Revamping of DHQ Hospital Khushab

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. KHUSHAB

2.2. TEHSIL(S)

I. KHUSHAB

3. AUTHORITIES RESPONSIBLE FOR

3.1. SPONSORING AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.2. EXECUTION AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.3. OPERATIONS AND MAINTENANCE AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.4. CONCERNED FEDRAL MINISTRY

- NATIONAL HEALTH SERVICES, REGULATIONS AND COORDINATION

3	**AUTHORITIES RESPONSIBLE** **3.1 Sponsoring**	Government of the Punjab, Primary and Secondary Healthcare Department
	3.2 Execution	PMU for Revamping Program of Primary and Secondary Healthcare Department and C&W Department
	3.3 Operation & Maintenance	PMU for Revamping Program of Primary and Secondary Healthcare Department and District Government
	3.4 Concerned Federal Ministry	Ministry of National Health Services, Regulation and Coordination Pakistan

4. PLAN PROVISION

Sr #	Description
1	**Source of Funding:**Scheme Listed in ADP CFY
2	**GS No:**5349
3	**Total Allocation:**0.000
4	**Comments:** Provision of Rs.1300 M reflected at G.S. No.660 of ADP 2022-23 titled “Balance Work of Revamping of All DHQ & 15 THQ Hospitals in Punjab.

5. PROJECT OBJECTIVES

Attached

5. Project objectives and its relationship with Sectorial Objectives and Components

The Government of Punjab is making strenuous efforts for a better and effective Health Care system. The Defining step in this direction was to recognize the importance of Health Care at Primary & Secondary Levels. As a first step towards better health care at primary and secondary level, the department under the guidance of P&SHD had decided to launch massive revamping of 40 THQ & DHQ Hospitals in the current financial year 206-17. Program was launched to provide timely quality health care through skillful application of medical technology in a culturally sensitive manner within the available resource constraints. Eliminating poor quality involves not only giving better care but also eliminating under provision of essential clinical services, stopping overuse of some care and ending misuse of unneeded services. A sadly unique feature of quality is that poor quality can obviate all the implied benefits of good access and effective treatment. At its best, poor quality is wasteful and at its worst, it causes actual harm. Keeping in view this basic essence of Primary and Secondary Healthcare, Government of the Punjab is dedicated in making strenuous efforts for ensuring a better and effective Health Care system in the hospitals.

The basic mandate of Primary & Secondary Health Department is to focus on preventive health care in primary sector along with basic diagnostics and treatment facilities at secondary level. The context is to primarily lessen the load on tertiary care health establishments and to reduce treatment costs. The major challenge for Primary & Secondary Health Department is to boost the confidence of masses and raise the level of trust in the primary health care system. The reality is that most of the health care establishments at secondary level are not currently providing health care services up to the optimal level, owing to a myriad of reasons including heavy patient load, scarcity of resources, human resource constraints and dysfunctional biomedical and allied equipment.

The defining step in this direction was to recognize the importance of Health Care at Primary & Secondary Levels. In order to address the dilapidated condition of hospital infrastructure, scope of work, based on the followings was chalked out:

- Addition of human resource
- Rehabilitation and improvement of infrastructure
- Supply of missing biomedical and non-biomedical equipment;
- Introduction of IT-based solutions
- Outsourcing of allied services
- Standardization of hospital protocols.

5.1. Brief Description / Background

The District Head Quarters (DHQ) Hospitals are located at District headquarters level and serve a population of 1 to 3 million, depending upon the category of the hospital. The DHQ hospital provides promotive, preventive and curative care, advance diagnostics, inpatient services, advance specialist and referral services. DHQs provides referral care to the patients including those referred by the Basic Health Units, Rural Health Centers, Tehsil Head Quarter hospitals along with Lady Health Workers and other primary and secondary care facilities.

Similarly, Tehsil Head Quarter Hospitals are located at each Tehsil Headquarter and serve a population of 0.5 to 1.0 million. At present, the majority of THQ hospitals have 40 to 60 beds. The THQ hospital provides promotive, preventive and curative care, diagnostics, inpatients, referral services and also specialist care. THQ hospitals are also supposed to provide basic and comprehensive Emergency Obstetric and Newborn Care. THQ hospital provides referral care to patients, including those referred by the Rural Health Centers, Basic Health Units, Lady Health Workers and other primary care facilities.

Keeping in view the importance of primary and secondary health care, the department has decided to launch massive revamping of 40 DHQ & THQ Hospitals in the current financial year (25 DHQ's and 15 THQ's). In addition to this, as a part of special instructions, the department has also taken improvement of emergencies in 15 DHQ &THQ Hospitals.

Infrastructure improvement portfolio was undertaken in all DHQ & 15 THQ Hospitals through Infrastructure Development Authority Punjab (IDAP) with the following details:

(A) Repair/Renovation of Clinical Covered Area - Establishment / Up-gradation of Missing Facilities (Emergency, ICU, CCU, Burn Unit, Dialysis Unit, Physiotherapy, Dental Unit, CT Scan, Mortuary and Yellow Room) Complete Renovation of Existing internal infrastructure (Wards, OPD Rooms, Corridors, Operation Theaters and Diagnostic blocks) with state-of-the-art clinical friendly materials

B) External Development - Façade, External Pathways, Platforms, Sewerage and Water Supply System

C) External Electrification

- Dedicated Power Lines (Dual Supply and Express Lines)
- External wiring

(D) Establishment / Up-gradation of Missing Health Facilities:

- Emergency
- CT Scan
- Dialysis
- ICU
- CCU
- Physiotherapy
- Mortuary
- Dental Unit

The construction of various new blocks of hospital complex is constructed without any proper planning and necessary connection to existing blocks. On the whole, the complete infrastructure of hospital is quite complex and scattered, access to various blocks of hospital is quite inadequate and there is no proper connection or link between different blocks of hospital. In the revamping program of DHQ and THQ Hospitals, the placement of various facilities of hospitals are re planned keeping in view the layout of existing blocks for facilitation of patients and some modifications/alterations were proposed in the blocks for necessary link or connection between the blocks.
Civil work revamping of all DHQ & 15 THQ Hospitals was undertaken during the FY 2016-17 through Infrastructure Development Authority Punjab (IDAP). Details of revamping in DHQ is given below:

Total area of the DHQ Hospital Khushab:	61,553 SFT
Area completed:	54,053 SFT
Area Descoped:	7,500 SFT
External Development and Electrification:	Not Executed

Later on the IDAP informed that they will not be able to take the next revamping plan of DHQ/THQ Hospitals of Punjab on the grounds that it does not fall in the project role of IDAP specified in the 36th meeting of Principal Cabinet of IDAP held on 26-10-2020.

Accordingly, on the basis of RCE of IDAP and de-scope civil work received 25 sub-schemes of all DHQ and 15 THQ Hospitals have been approved from PDWP in its meeting held on 36-03-2021 and DDSC meeting held on 29-04-2021. Sub-schemes of all DHQ & 15 THQ Hospitals were concluded.

Now it has been decided to complete the balance civil work of revamping through C&W Department. Accordingly, the Rough Cost estimates of balance civil work has been got prepared from the Punjab Buildings Department for preparation of instant PC-I.

5.2 Infrastructural Interventions

The construction of various new blocks of hospital complex is constructed without any proper planning and necessary connection to existing blocks. On the whole, the complete infrastructure of hospital is quite complex and scattered, access to various blocks of hospital is quite inadequate and there is no proper connection or link between different blocks of hospital. In the revamping program of DHQ and THQ Hospitals, the placement of various facilities of hospitals are re planned keeping in view the layout of existing blocks for facilitation of patients and some modifications/alterations were proposed in the blocks for necessary link or connection between the blocks.

Major infrastructural interventions can be divided in the following three categories

5.4.1 External Development

5.4.2 Internal Development

5.4.3 Medical Infrastructure Development

5.4.4 Emergencies Development

5.3 External Development

5.3.1.1 External Platforms

In order to improve the communication between blocks, necessary interventions are taken to improve the existing metaled road network. Moreover, new internal metaled road is proposed to access the blocks of hospital.

5.3.1.2 Façade Improvement

In order to improve the aesthetics of hospital, façade uplift has been proposed in order to give the feel of modern architectural era.

5.3.1.3 Sewerage System

These interventions include the re designing of sewerage system, construction of new manholes, laying of new sewer lines and connection between trunk sewer and hospital sewer.

5.3.1.4 External Electrification

One of the major hindrances in functionality and ineffectiveness of electro medical equipment and other facilitating electrical appliances is either interrupted power supply or power supply with lesser voltage than required. This problem was solved by providing express line or dual electrical supply in all hospitals under revamping. Despite these two facilities based, on the current and proposed electrical load of hospital new transformers were proposed to step down the voltage to desired level and complete generator backup system was designed and generators along with automatic transfer switches were proposed accordingly. Moreover, to fully lighten up the hospital for proper utilization of all facilities of hospital during the low/no-light hours of the day, external pole lights to lighten up the pathways and garden lights to lighten up the lawns were designed and proposed.

5.3.2.1 Ramp and Stretcher improvement

For hospitals having more than one floor, there is a huge problem of patient transfer with stretcher. This problem is solved by proposing new ramps/stretcher ways where needed. Moreover, in order to further improve the communication between various floors of hospitals improvement of stair cases with hand rail or guard rails is proposed.

5.3.2.2 Seamless flooring and Lead Lining

To keep high risk areas like Operation theaters, I.C.U, C.C.U, Burn Unit and Gynecology Operation Theater bacteria free is one of the basic medical practices. In the revamping program of hospitals low epoxy paint is proposed in these areas to provide seamless flooring so that the bacterial growth within the groves can be prevented. Moreover, to make the C.T. Scan room and X-Ray rooms radio-resistant and to keep the patients away from the harm of rays, interventions are taken in X-ray rooms and C.T. Scan regarding provision of lead lining in walls, ceiling and floor.

Interventions were taken regarding hazardous radiation emitting areas to make them radio-resistant in order to keep patients/attendants away from harmful radiations. These interventions were in the form of provision of lead lining in ceiling, walls and roofs of C.T. Scan and X-Ray rooms.

5.3.2.3 Aluminum doors and windows

In order to make sound and heat proof the doors and windows of wards, corridors and major health facilities are proposed as aluminum doors and windows. Which despite of above benefits are also aesthetically pleasing. Corridor wire mesh windows and rolling blinds for windows are proposed in order to invite or stop the day light within the winards according to the requirement. Moreover, existing wooden doors having shabby and dirty look are proposed to be re-polished and washroom doors are proposed to be replaced with PVC doors to make them resistant against water.

5.3.2.4 Improvement of washroom blocks

The area of hospital which can be dirty at most is its washroom or toilet blocks. To improve the cleanliness of hospital the special interventions were taken regarding the renovation of toilet block of hospital. This renovation includes the re tiling of existing damaged flooring and skirting and addition of water closets etc.

5.3.2.5 Fire and theft security

The security of hospital against fire and theft is another patient beneficial initiative in the revamping program. The provision of different types of fire extinguishers and installation of different types of CCTV cameras is also proposed in this program. The fire extinguishers are planned to place at those positions in the building where the fire event is most likely to occur and CCTV cameras are designed to install at those location where monitoring is essential from security point of view. These points also include the external areas of hospital like main gates etc.

5.3.3 Medical Infrastructure Development

Includes establishment of new facilities which are as follows:

To cope with the emergency condition of clinically serious patient, oxygen supply system is designed by proposing an individual oxygen supply system for each major health facility. This oxygen supply network comprises on copper pipe line, flow meter with bed head units, cylinders and setup and individual central oxygen supply system. The contract of filling of oxygen gas in cylinders is outsourced for uninterrupted oxygen gas supply to the patients.

For patient receiving, information, guidance, appointment or for any other task, separate reception counters are proposed in various blocks so that, all necessary information regarding the block is available on the counter round the

clock. In this way, utilization of clinical facilities will be optimized. For indoor patient department, complete facilitation and care of patients admitted in wards is ensured by proposal of nursing counter in each ward. This nursing counter will be placed or constructed in such a placement that each bed can be monitored by the nurse available.

In the revamping program, following clinical facilities are being introduced in the DHQ Hospital:

> I.C.U, C.C.U, Burn Unit, Dialysis Unit, C.T. Scan, Dental Unit, Physiotherapy Unit and Prisoners ward

The design regarding architectural planning of above mentioned facilities are designed according to the patient facilities and architectural planning standards. These designed facilities are then designed in the existing building structure according to the patient flow and sensitivity of facility.

5.3.3.1 ICU

District Headquarter Hospitals (DHQ) serve catchment populations of the whole districts (1-2 million) and provide a range of specialist care in addition to basic outpatient and inpatient services. They typically have about 100 to 300 beds and a broad range of specialized services including surgery, medicine, paediatrics, obstetrics, gynaecology, ENT, ophthalmology, orthopaedics, urology, neurosurgery etc. Patient who are in need of intensive care are usually referred to tertiary care hospital but due to long distance they had to travel and time consumed on road due to heavy traffic and other unavoidable circumstance, patient's condition not only deteriorate but also compromise the effectiveness of life saving intervention. Understanding these ground realities Primary and Secondary Healthcare Department, Government of the Punjab has decided to establish intensive care units (ICU) in DHQ hospitals as a part of its Annual Development Plan. This will improve the quality of healthcare and timely provision of life saving treatment will be possible to large number of patients.

Primary and Secondary Healthcare Revamping programme (PSHRP) is the initiative by the Chief Minister of Punjab to strengthen the healthcare delivery system in the province Acquisition of licenses for all DHQ and THQ Hospital by developing and implementing uniform set of standard Operating procedures (SOPs) & standard medical protocol (SMP) for compliance to MSDS of PHC is planned as a part of PSHRP.

An **intensive care unit** (**ICU**) is a special department of a hospital or health care facility that provides intensive treatment medicine. Intensive care units cater to patients with severe and life-threatening illnesses and injuries, which require constant, close monitoring and support from specialized equipment and medications in order to ensure normal bodily functions. Intensive care units are staffed by highly trained doctors and nurses who specialize in caring for critically ill patients. They are also distinguished from normal hospital wards by a higher staff-to-patient ratio and access to advanced medical resources and equipment that are not routinely available elsewhere. Common conditions that are treated within ICUs include ARDS, trauma, multiple organ failure and sepsis. Patients may be transferred directly to an intensive care unit from an emergency department if required, or from a ward if they rapidly deteriorate, or immediately after surgery if the surgery is very invasive and the patient is at high risk of complications.

5.3.3.2 CCU

Understanding these ground realities Primary and Secondary Healthcare Department, Government of the Punjab has decided to establish coronary care units (CCU) in DHQ hospitals as a part of its Revamping Program. This will improve the quality of healthcare and timely provision of life saving treatment will be possible to large number of patients. A coronary care unit (CCU) is a special department of a hospital or health care facility that provide coronary care to patients. Coronary care units cater to patients with severe and life-threatening cardiac illnesses and which require constant, close monitoring and support from specialized equipment and medications in order to ensure normal bodily functions.

Coronary care units are staffed by highly trained doctors and nurses who specialize in caring for cardiac patients. They are also distinguished from normal hospital wards by a higher staff-to-patient ratio and access to advanced medical resources and equipment that are not routinely available elsewhere. Common conditions that are treated within CCUs including angina, Myocardial infection, cardiac arrhythmia, cardiac shock etc. Patients may be transferred directly to coronary care unit from an emergency department or from a ward if they rapidly deteriorate, and immediately require cardiac care treatment.

5.3.3.3 DIALYSIS UNIT

Chronic kidney disease is now a significant public health problem worldwide. Chronic kidney disease globally affects almost 10 % of general population with Incidence in prevalence of disease are still rising especially in developing countries. The rise in chronic kidney disease is by aging of the populations and growing problems of obesity, diabetes, high blood pressure and cardiovascular diseases.

District Headquarter Hospitals (DHQ) & Tehsil head Quarter Hospital (THQ) serve large catchment populations of the district and provide a range of specialist care in addition to basic outpatient and inpatient services. Patient who are in need of dialysis, are referred to tertiary care hospital due to non-availability or insufficient number of dialysis machines. Patient's condition not only deteriorate but also compromise the effectiveness of life saving intervention due to approaching to other cites or to costly private setups of dialysis. Primary and Secondary Healthcare Department has decided to establish & strengthening already existing 10 bedded dialysis at DHQ hospitals & 5 bedded dialysis unit at THQ hospitals. This will improve the quality of healthcare and timely provision of life saving treatment will be possible to large number of patients.

Dialysis unit is a special department of a hospital or health care facility that provides a lifesaving support to patients with chronic renal disease along with pre-existing diseases like diabetes, hypertension, ischemic heart disease to ensure normal bodily functions. Dialysis units are staffed by highly trained doctors, dialysis technicians and dialysis nurses who have done specialized training in caring for such patients. Patients are usually admitted from out door and often from emergency and registered for their timing and schedule of dialysis because these patients are given regular appointments twice or thrice a week as per defined by nephrologist/physician.

5.3.3.4 BURN UNIT

To improve the quality of medical care rendered to burn patients, primary and secondary Healthcare Department has decided to establish burn units in DHQ hospital as a part of its Annual Development Plan. Effective management of Burn victims is a complicated and challenging intervention in a developing country like Pakistan. Absence of clinical standards, protocols, and guidelines for care of burn patients in health facilities is an important constraint. Primary and Secondary Healthcare Revamping programme (PSHRP) is the initiative by the Chief Minister of Punjab to improve the healthcare delivery system in the province Acquisition of licenses for all DHQ and THQ Hospital by developing and implementing uniform set

of standard Operating procedures (SOPs) & standard medical protocol (SMP) for compliance to MSDS of PHC is planned as a part of PSHRP.

Burns are among the most common types of trauma occurring in any society. Most burns are relatively small and consequently not life threatening, but large burns, even partial thickness ones, still pose a major threat when not treated properly. Even smaller burns may cause major morbidity, because the injury is very painful and may lead to disfiguring scar formatting, primarily hypertrophic scarring. The 4 bedded Burn Units will treat children and adults with thermal burns, chemical burns, electrical burns etc.

Primary and secondary healthcare department focusing on optimal management of patient with up to 30% burns in newly developed burn units and desired to establish a proper referral system for patients who have more than 30% burns. Primary and secondary healthcare department has directed its efforts towards development of an organized system for total care of the burn patient including development of medical protocol, training & retaining the qualified medical/nursing staff and coordination with specialized health & Medical education department.

5.4.1 EMERGENCY DAPARTMENT:

All THQS and DHQs are already providing emergency services to critical ill patients. As for as the existing sources including human resources &equipment are not sufficient to fulfill the requirement. Primary and secondary healthcare department is going to take the initiative to improve emergencies of hospitals by providing new equipment and human resource in form of recruitment of doctors, nurses and paramedical staff along with Infrastructure of Causality Department. Ultimate goal of revamping of emergencies is to enhance the quality of medical services to critical ill patient in golden hour to decrease the mortality and morbidity rate in causality department of each hospital.

5.4.2 General Overview of Emergency Department

In any hospital, the most important and critical area is its emergency block. Specially, if hospital is situated on a highway where there is a huge flux of rapidly moving traffic which can be a major source of causalities, if patient treatment is not proper. Besides road trauma cases, cardiac cases and burn cases etc. are also more likely to be initially treated in emergency. Proper first aid to patient reduces morbidity and mortality. The emergency department of hospital is a block where in time service delivery is so much essential that delay in proper treatment can cause lot of lives to suffer from serious diseases for rest of their life. In a nutshell, the

efficiency and in time service delivery of emergency block depicts the overall efficiency of the hospital.

In order to improve the emergency department and to ensure in time service delivery of the same, special initiatives are being taken in this regard. Infrastructure of emergency department depends a lot on its service delivery and efficiency. An emergency department with all necessary medical and general equipment and equipped with all essential medical facilities but without ineffective and poorly planned infrastructure will never fulfill its need. Conclusively, such infrastructural interventions are planned in this program so that the efficiency of emergency department can be optimized. Some of the following major interventions are listed below:

5.4.3 Position of Emergency Department

It is planned that new construction of building should be avoided at most because already existing blocks with no proper utilization are existing in all of the hospitals. The emergency block should be on such a location that the distance between that department and main entrance gate should be minimum with respect to other locations or positions of complex. To fulfill this purpose, that portion of this building block is selected for re planning of emergency department which is most near to the entrance gate.

5.4.4 Addition of Portico and External Structures

The external structures like portico, ramp/stretcher way for entrance, podium and platform for wheel chairs are proposed in this program for facilitation of patients. Portico is a small structure constructed outsides the covered area consisting of four or two columns carrying a slab or roof over it. This portico is constructed in this program outsides the emergency department to provide a shade for the ambulance or any other vehicle carrying the patient. With presence of this portico, it will facilitate the patient to transfer it from ambulance to the department under a shade so that it provides resistance against the rain or other weathering effects.

Ramp/Stretcher way is an essential structure to constructed outsides the emergency department because almost all the patients coming towards the emergency block are on either wheel chairs of stretcher. It is impossible for a wheel chair or stretcher to cross the stairs in order to enter in the department. To cope up with this problem, ramp or stretcher way is proposed outsides the emergency department to provide a smooth passage for the stretcher or wheel chair. Platform for wheel chairs is proposed in this program in order to provide a station for wheelchairs. The presence of this wheel chairs platform will ensure in time access to the wheel chairs when required. In order to give a feel of modern architecture and to uplift the existing shabby outlook of the department, interventions regarding façade improvement are taken in this program.

5.4.5 General Building Interventions:

In order to improve the over building condition of emergency blocks following major interventions are taken:

1. Provision of flooring and skirting
2. Painting on interior and exterior side of department
3. Provision of false ceiling
4. Replacement of damaged and renovation of existing wooden doors
5. Provision of aluminum doors and windows
6. Public health work regarding supply of water and gas along with improvement of sewerage system
7. Provision of LED panel lights, ceiling fans, exhaust and wall bracket fans
8. Improvement of existing wiring and distribution including replacement of damaged equipment and proposal of new equipment

5.5 Introduction of IT-based solutions

This includes implementation of IT-based solutions for improving services delivery standards to ensure better service delivery to general public/patients. In this regard, a dedicated Project Management Unit (PMU) established comprises ICT wing with the scope of revamping exercise include but not be limited to provision of IT equipment & IT solutions.

Currently, Queue Management System (QMS) integration with Hospital Information Management System (HIMS) project was under execution by PITB for Phase-I DHQ/THQ 40 hospitals.

Number of software application has been developed, deployed and implemented in hospitals by using the IT manpower in hospitals by PMU ICT team that includes but not limited to:

- Invoice Management System
- MEPG mobile application & web portal for outsourced services monitoring system.
- Janitorial mobile application & web portal
- Surgery Tracking Application & web portal
- Patient Feedback Application & web portal
- Stock Management /Consumable Application
- Equipment Management Portal
- Hospital Management Information System for Phase-II hospitals
- Patient Referral System Portal

- MLC portal

5.6 MONITORING AND QUALITY ASSURANCE (PROCESS INTERVENTIONS)

During construction phase, "Construction Supervision" will be carried out by the Procuring Agency (Director Infrastructure) who will certify construction activity.

5.6.1 MSDS (Minimum Service Delivery Standards)

MSDS are minimum level of services, which the patients and service users have a right to expect. MSDS include minimum package of services, standards of care (level specific) and mandatory requirements/systems for delivery of effective health care services. The World Health Assembly in Alma-Atta in 1978 expressed the need of action to protect and promote the health for all the people of the world. Essential health is to be made universally accessible to individuals and families through their full participation and at a cost that the community and country can afford. MSDS is now being deemed to be of vital importance at THQ and DHQ level. The THQ hospital provides promotive, preventive, curative, diagnostics, in patients, referral services and also specialist care.

THQ hospitals are supposed to provide basic and comprehensive EmONC. THQ hospital provides referral care to the patients including those referred by the Rural Health Centers, Basic Health Units, Lady Health Workers and other primary care facilities. The District Head Quarters Hospital is located at District headquarters level and serves a population of 1 to 3 million, depending upon the category of the hospital. The DHQ hospital provides promotive, preventive, curative, advance diagnostics, inpatient services, advance specialist and referral services. All DHQ hospitals are supposed to provide basic and comprehensive EmONC. DHQH provides referral care to the patients including those referred by the Basic Health Units, Rural Health Centers, Tehsil Head Quarter hospitals along with Lady Health Workers and other primary care facilities. Services package and standards of care at SHC level are also not well defined. Deficient areas include: weak arrangements to deal with non-communicable diseases, mental, geriatric problems and specialized surgical care especially at THQ Hospitals. There is disproportionate emphasis on maternal and child health services at SHC facilities. Services-package being provided at PHC and SHC are also deficient in terms of Health care providers' obligations, patients' rights and obligations.

MSDS umbrella is very vast and it requires a very extensive and planned approach towards, gap analysis, planning, development, implementation, monitoring and evaluation. MSDS comprises of 10 thematic area, 30 standards and 162 indicators. Government of Punjab has taken an initiative to standardize all hospitals of Punjab in accordance with Punjab Health Care Commission Minimum service delivery standards. PMU team segregated MSDS indicators into various targets and sub-targets to make these targets achievable. Manuals for both clinical and non-clinical specialties are being prepared comprising of departmental organizational plan, criteria for essential human resource, essential equipment, general and specialized SOPs, departmental safety guidelines etc. Standardized

Medical Protocols (SMPs) are standard steps to be taken by a health facility during medical or surgical management of a patient. Standard Operating Procedure (SOPs) are detailed description of steps required in performing a task including specifications that must be complied with and are vital to ensure the delivery of these services .It requires literature review, departmental view, facility visits, consultative visits and development of action plan for implementation of MSDS. Effective MSDS implementation requires essential documentation. Documentation is a key for record keeping, monitoring and auditing. For this purpose, registers, forms, displays have to be designed with coding for effective tracking. In addition to this it also requires analysis from field from utilization point of view.

Displays constituting of public serving messages, health related information and general facility related guidelines. In order to monitor effective implementation, compliance monitoring is required to be carried out by field experts which is followed up by further planning to ensure continuous delivery of effective, accessible, continuous and quality services to masses in uninterruptable manner.

MSDS implementation is a complex procedure. Because it requires

1. Capacity building for understanding, development and continuous implementation of MSDS.
2. Ecosystem for establishing its implementation by full cooperation, collaboration, commitment of
3. Continuous monitoring
4. Continuous audit
5. Continuous training, refresher courses with purpose of reinforcement
6. Continuous quality improvement
7. Continuous SWOT analysis and gap identification
8. Continuous strategy making and implementation with backup plan for secondary options.
9. Responsibility designation for clinical and non-clinical procedures and activities.
10. Effective utilization, calibration and maintenance of equipment with record maintenance and their audit
11. Establishment of plans, implementation, analysis of gaps with alternate planning regarding fire evacuation plan, hospital inflectional control plan, hospital operational and strategic plans, disaster plan both internal (partial / complete) and external.

The PDSA cycle

1. Developing a plan to test the change (Plan),
2. Carrying out the test (Do),
3. Observing and learning from the consequences (Study), and
4. Determining what modifications should be made to the test (Act).

5. Monitoring effective load sharing of Human resource and equipment within hospitals.
6. Addition of new HR/ rationalization on requirement of MSDS indicator compliance for effective departmental organization and their planned trainings by MPDD, UHS ETC
7. Standard optimization of Standard operating procedures and methods for their effective adoption by hospital human resource.
8. We have also extended our MSDS implementation in 20 more departments such as dentistry, ICU, ccu, Dialysis, mortuary, burn unit, physiotherapy, orthopedics, medicine, nursing, paeds, ophthalmology, derma, TB, urology, patient transfer system, store and purchase, audit and accounts, procurement, planning etc. We are also in process of preparing manuals, SOPS, plans, universal forms, and universal registers with universal tracking system of record.
9. We have developed an application for continuous monitoring of MSDS compliance.

Health managers are considered essential at both the strategic and operational levels of health systems. To gain an initial understanding of the management workforce for service deliver. Every health system desires managers who are competent and have the knowledge, skills and demeanor to be effective. The performance of health services managers will depend in part on how certain standard support systems function. Even good managers will have problems if procedures for running finances, staff, etc., are not working well. Functional systems should have clear rules and regulations, good guides and forms, effective monitoring and supervision and appropriate support staff, e.g. account staff, supplies and information staff and secretarial support A health manager is supposed to be competent in planning, budgeting, financial management systems , personnel management systems, including performance management , procurement and distribution systems for drugs and other commodities , information management and monitoring systems , systems for managing assets and other logistics, infrastructure and transport. Support systems help to ensure uniformity in management practices and ensure that management and administrative systems function and get results.

5.6.2 Supply of missing Biomedical and non-biomedical equipment

Procurement of Bio and non-biomedical equipment as per requirement of the hospital and available financial resources in all DHQ and 15 THQ Hospitals completed.

Impact of supply of missing Biomedical and non-biomedical equipment;

- With the addition of necessary biomedical equipment like CT Scan/X-Ray/Ultrasound and Color Doppler, Burn Unit equipment, ICU/CCU equipment, Ventilators, Medical Gas Pipeline System and Operation Theaters etc. hospital clinical staff and administration is able to provide better healthcare to the patients' way beyond the limits prior to revamping.

- Due to availability of this necessary biomedical equipment coupled with trained staff, the load on specialized healthcare hospitals has greatly reduced. The hustle and bustle of general public (especially rural) faced due to travelling towards far furlong specialized healthcare hospitals has reduced.
- Lifesaving biomedical equipment for instance Emergency Equipment, Operation theaters equipment has contributed in saving many lives due to availability of the said equipment and this contribution is still going on.
- Non availability of this equipment was enforcing the public for private and costly treatments, which was resulting into huge financial impact on public. The availability of these services at government rates has beneficial impact on public.
- The provision of non-biomedical equipment has facilitated the public, patients and staff largely e.g. Air Conditioners, Office Furniture, Benches, Ceiling fans and generators etc.
- The provision of non-biomedical equipment e.g. waste bin sets, bed sheets, blankets etc. has contributed towards overall hospital cleanliness which has reduced the disease hotspots of hospitals.

Biomedical Equipment Resource Center (BERC) has been working under PMU to record and maintain an updated elaborate and sophisticated asset inventory of biomedical equipment in DHQ and THQ Hospitals at provincial level, respond to repair calls by mobilizing the assigned repair personnel/vendors/firms and analyze the data to identify quality, repair track and life span (end-of-life) of equipment; quality of service of vendor/firm/party and quality of service of the service provider handling the equipment; and use the information to raise alerts in relevant departments for adequate action (procurement, condemnation, black-listing of vendor etc.)

5.7. Electronic Medical Record (EMR) and QMS

5.7.1 Queue Management System (QMS)

OPD in DHQ has enormous patient load, due to the only big public sector serving hospital in Districts and Tehsils. At the moment the ticket system is prevailing but there is no mechanism to handle that ticket and assign number to the ticket and its being issued in manual format. This will also create dependency on the person issuing the ticket. After getting the tickets, patient will be provided with no guidance on where to go and when his term will come to meet the doctor and get the required service. This will create confusion and delayed service delivery. On the other hand it will waste lots of time on the end of doctor and patient as patient and doctor has no direct liaison with each other. Moreover, patient will again have to be dependent on some person to check that either doctor is free or any patient sitting in his facility. Here again, human intervention and dependency will come into play.

This project basically aims to remove all the human related dependency till the patient reach the doctors. Moreover, it also includes, recording basic information for a patient and guiding him to the doctors room from registration count to triage without any dependency on hospital staff. This will improve the transparency as per the vision of good governance and serve the patient in an efficient and transparent manner. This will also help the patient in estimating that time estimate till his term which will give him relief and more belief on the fair system. On the other hand doctor will always have an idea that how many patients will be in queue and give him direct liaison with the patient sitting outside.

The need of queue management system is evident in hospital from the fact of lack of proper mechanism of patient queue management at OPD's, human resource deficiency and non-functional equipment. The Implementation of Queue Management System will provide and streamline Patient Queue Management at OPD with Ticket Generation and Display of Numbers on the counters. This will help in maintaining the queue on First IN First OUT (FIFO) basis. The system will also provide the information counter to the general public to educate them in the use of queue management system and short description of the process. After implementation of this system, the incoming patient will be guided in a manner to get the service on his turn without any dependency or interference of an external resource. All will be handled in an automated way with patient are being served at their turn.

The system manages the patients load, organizes the patient's queues in an adequate manner and gives them the ease in waiting area; and they will be

examined gracefully by doctors at their turn. Basic information of the patient is also linked with its ticket, being taken at the first counter. This will help established a unique ID against each patient. This will also lead to the establishment of Electronic Medical Record. The Process flow of Queue Management System at DHQ is given as follows:

There are 35 counters at DHQ level including basic registration counter, triage counter, consultant office and hospital pharmacy. There is one ticketing machine with a bifurcation of male, female and old age person. The ticket will be issued to the relevant category accordingly. After receiving the ticket the said number will be blinked on male, female and old age counter. The person will move to that counter where he will be asked about his basic details which will be entered in the basic registration form software linked with QMS and that specific token / ticket number. He will also be asked about the disease and accordingly the relevant consultant / specialty area e.g. pediatrics, ophthalmology etc. after registering, he will take the printout and give the slip to patient / attendant along with its token number.

The basic fee of OPD will be received at the registration counter and accounted for in the basic registration software linked with QMS. The same token number will be displayed on the triage counter where his vitals will be taken and written on the same registration slip available with the patient. Now, keeping in view the specialty area the token number will be displayed on the relevant consultant office and he will be checked by relevant consultant. The consultant than diagnosed the medicine or either to admit it after his examination. In case of medicine he will be sent to hospital pharmacy where again the same ticket number will be displayed. There have to be an option available with the doctor to either redirect him to the hospital pharmacy or other (medical tests, referred to IPD). On displaying the same token number at pharmacy counter the patient will move to pharmacy counter along with his token number and registration slip and take prescribed medicine. Patient will be disposed from that window and process of QMS will be completed. There will be no entry in the basic registration software on the counters of triage, doctor at the moment.

The same process described above for DHQ will be implemented for THQ but with lesser number of counters i.e. 25. The important constraints for the systems are:

1. Same token number will be used at all the counters and patient will be getting the ticket from ticketing machine only once at the time of entry.

2. QMS will cater for missed, skipped or delayed patient at any counter.
3. There will be two LED displayed at different location in the waiting area to guide patients about the process details and to display token number along with announcement in URDU.
4. The gap between each display panel from ticketing machine to pharmacy can be customized according to requirement e.g. 5, 10, 30, 60 seconds etc.

5.7.2 Public Address System

Hospital Staff / Patients / Public Address System at Hospitals is a mandatory part of any hospitals facility following the international standards. The system is required to serve the multipurpose of announcing code blue (Critical Situation), making general announcement to attendants / Patients or to call patients or to transmit the fire tone under fire condition. The said system has been installed with 20 locations at hospitals with speakers and two announcement locations within the hospital. This will help in streamlining the operations of hospitals and for efficient and better service delivery and to better patient care.

5.7.3 CCTV System

Installation of network based CCTV cameras is an important module in the ICT part of revamping project. Scope of this component is to install 60 to 80 cameras in each hospitals at important location i.e. entry, exit, OPD, waiting areas, Parking for surveillance and security purposes. This will also serve as major input to the security services being provided by an outsourced security company in relevant hospitals. Moreover, there will be small scale central control room at each hospital to monitor the allocated locations where the cameras have been installed. This system will also have the facility to record the video for 15 days for all the cameras so that recording of specific duration can be produced on demand. This will also have the facility of central control room which has the capacity to access the camera of 40 hospitals and to view and monitor the area of specific camera within specific hospital at any given time. Therefore, it will establish a centralized surveillance and security mechanism for these 40 public sector healthcare facilities.

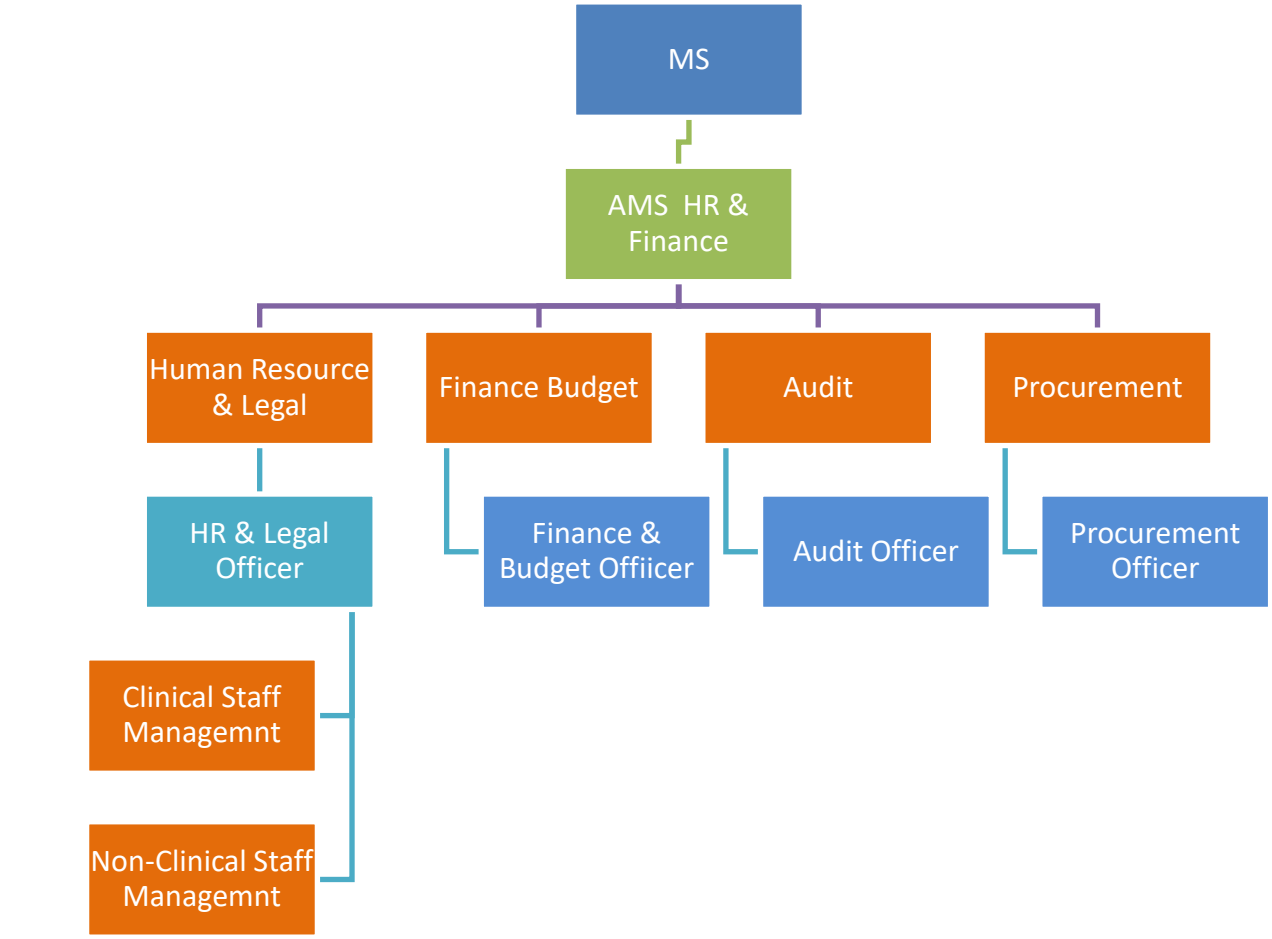
5.7.4 EMR and Networking

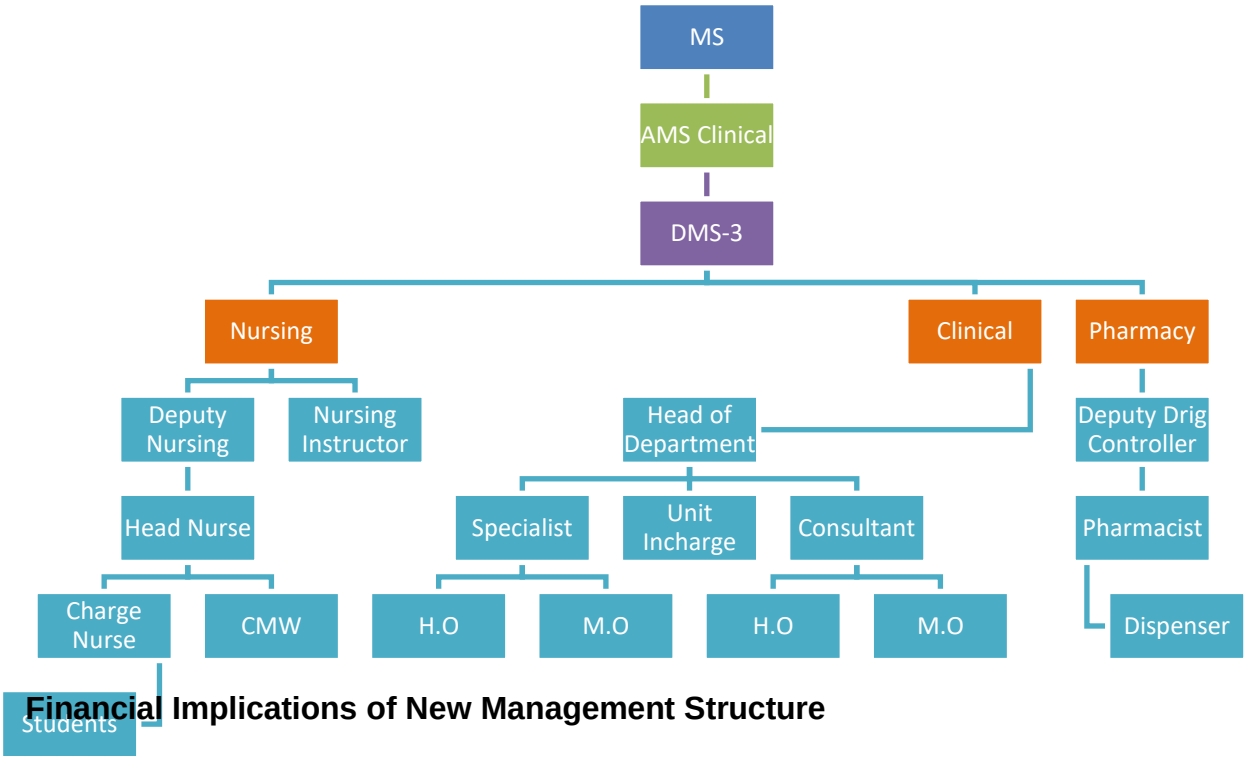
Establishment of network infrastructure, establishing a central data center, connectivity of different building through fiber, are also the major components of the revamping project in terms of ICT. This will including provision of networking point at all nursing stations and important areas where entries regarding patients' needs to be made e.g. Radiology/Pathology, Indoor, outdoor etc. This will serve as

backbone to implement the Electronic Medical Record System in the Hospital which has the key feature of generating Unique Medical Record Number for each patient. This MR number will serve as an identity for patients during their treatment, retrieval of records and for decision making.

EMR will also be able to log the patient for treatment being provided to him in different areas of hospital i.e. OPD, Pathology, Radiology, Surgery, Indoor, etc. and their integration. This will be achieved by entering the relevant information at each department against specific MR number of a patient in the Customized / Purpose build software (EMR) for these public healthcare facilities.

This entry of MR number against each patient in hospital will build a large database for patient and relevant diseases. This will help in analysis disease / epidemic prevention and better patient care through retrieval of patient history and proper diagnoses at physician end. Implementation of patient registration, Record keeping, physical queue management, E-prescription, supporting IT interventions for EMR and medicine dispensation.





Financial Implications of New Management Structure

The Planning & Development Board vide letter No.12(24)PO(COORD-II)P&D/2022 dated 14-07-2022 has informed that revised standard pay package were discussed and approved by the 83rd PDWP meeting held on 28-06-2022 under the chairmanship of Chairman P&D Board for all ADP funded Project posts of Department /Organizations working in Government of the Punjab:

Project Pay Scale (PPS)	Revised Project Pay Scales (Permissible Range) (PKR)	Annual Increment Up to % age
PPS-1	28,000 --- 44,800	10
PPS-2	35,000 --56,000	10
PPS-3	43,750 -- 70,000	10
PPS-4	52,500 -- 84,000	10
PPS-5	70,000 --112000	10
PPS-6	105,000 -- 172,200	8
PPS-7	157,500 --258,300	8
PPS-8	218,750--358,750	8
PPS-9	306,250--502,250	8
PPS-10	437,500--700,000	5
PPS-11	612,500-- 980,000	5
PPS-12	875,000 --1,400,000	5

In view of the above the Pay package of NMS staff has been revised. Financial Implications of New Management Structure Model based on revised Standard Pay Package (PPS) approved by the 83rd PDWP meeting held on 28-06-2022:

Name of Post	No. of Employees	Original Pay package approved		Revised Pay package	
		Per Month Salary	Salary for One Year	Per Month Salary	Salary for One Year
ADMIN OFFICER	1	80,000	960,000	105,000	1,260,000
HUMAN RESOURCE OFFICER	1	80,000	960,000	105,000	1,260,000
IT/STATISTICAL OFFICER	1	80,000	960,000	105,000	1,260,000
FINANCE & BUDGET OFFICER	1	80,000	960,000	105,000	1,260,000
AUDIT OFFICER	1	80,000	960,000	105,000	1,260,000
PROCUREMENT OFFICER	1	80,000	960,000	105,000	1,260,000
LOGISTICS OFFICER	1	80,000	960,000	105,000	1,260,000
BIOMEDICAL ENGINEER	1	80,000	960,000	105,000	1,260,000
QUALITY ASSURANCE OFFICER	1	80,000	960,000	105,000	1,260,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	1,680,000	44,000	2,112,000

ASSISTANT ADMIN OFFICER	4	50,000	2,400,000	70,000	3,360,000
	17	**805,000**	**12,720,000**	**1,059,000**	**16,812,000**

5.8.1 NON CLINICAL HR INTERVENTIONS (HUMAN RESOURCE (HR) PLAN MANAGEMENT STRUCTURE)

Institution will run under the administrative control of Medical Superintendent, who will control this with the collaboration and cooperation of 3 Additional Medical Superintendents including AMS (Admin), AMS (HR & Budget) and AMS (clinical), 3 Deputy Medical Superintendents (morning, evening and night) will be reporting to AMS Clinical. Each clinical facility will be further controlled by head of concerned department and 6 administrative posts of HR & Legal Officer, IT/Static Officer, Budget & Account Officer, Admin Officer, Procurement Officer and Audit Officer will be provided as supporting hands for AMS Admin and AMS HR & Budget for smooth execution of hospital tasks.

RESPONSIBILITIES / JOB DESCRIPTIONS, ELIGIBILITY & FINANCIAL IMPLICATIONS FOR MANAGEMENT STRUCTURE OF HOSPITAL

5.8.2.1 HR / Legal Officer

Shall be responsible for following:

1. Issuance of monthly Duty rosters & special duty rosters of Eid, Muhurram etc of all clinical & non-clinical staff in hospital
2. Issuance of Transfer/postings orders within hospital
3. Taking of joining from new incumbents and charge relieving orders of relinquishing officials
4. File maintenance of all employees of hospital
5. Record of all enquires of employees of hospital
6. Leave record of employees
7. Adjustment of officials on duty during leave of concerned employee
8. Litigation/ legal issues of hospital (shall ensure all court cases are well attended and all legal matters of hospital are well taken care of)
9. Any other HR related function assigned by MS/AMS

Eigibility Criteria

1. Minimum qualification Masters' degree in H R / Public Administration/ MBA / Management / Administration / LLB/ M.Com or equivalent from HEC recognized University
2. Minimum 1 year post degree relevant professional experience (Additional credit may be given for hospital administration/Public sector experience of similar nature)

5.8.2.2 Finance & Budget Officer

Shall be responsible for following:

1. Handling of all financial matters of hospital
2. Petty cash handling
3. Preparation of budget
4. Budget review
5. Maintenance of accounts and record
6. Any other function assigned by AMR HR
7. & Finance/MS/P&SHD

Eigibility Criteria

1. Minimum qualification Masters' degree in Finance (MBA Finance)/ M.Com / CA Inter/ ACCA or equivalent from HEC recognized University or officer from treasury service / sub-ordinate accounts service (Additional credit may be given to Chartered accountant / ACCA)
2. Minimum 1 year post degree experience of Finance, Accounts & Budget (Additional credit may be given for Public sector experience of similar nature)

5.8.2.3 Audit Officer

Shall be responsible for following functions:

1. Smooth conduct and completion of all types of audit in hospital
2. Pre-audit of all Payments
3. Liaison with external audit teams
4. Preparation of replies of audit paras, working paper for Department Accounts committee, Special Departmental accounts committee & Public Accounts committee meetings
5. Development of SOPs for finance, budget, procurement as per Government rules & regulations

6. Any other function assigned by AMS HR& Finance /MS/P&SHD

Eigibility Criteria

1. Minimum qualification Masters' degree in Finance/ MBA Finance / Chartered Accountant / ACCA / M.Com or equivalent from HEC recognized University.
2. Minimum 1 year post degree experience of audit (Additional credit may be given for Public sector experience of similar nature)

5.8.2.4 Procurement Officer

Shall be responsible for following functions:

1. Procurement of all kinds for hospital
2. Shall be in liaison with P&SHD for procurements being conducted
3. Any other function assigned by AMS HR& Finance /MS/P&SHD

Eigibility Criteria

1. Minimum qualification Masters' degree in Finance/ MBA Finance / BSc Engineering / Pharm D/ Economics / Statistic / M.Com or equivalent from HEC recognized University
2. 1 year post degree experience of procurement (Additional credit may be given for public sector experience of procurement)

5.8.2.5 ADMIN OFFICER AND ASSISTANT ADMIN OFFICER

Shall be responsible for general administrative affairs of hospital along with following functions:

1. Security
2. Transport
3. Parking
4. Janitorial
5. Canteen
6. External housekeeping
7. Electrical works

8. Internal housekeeping
9. Laundry
10. Stores & supplies

In case these functions have been outsourced, he shall be responsible for enforcement of these contracts and shall ensure that penalties are imposed in case of violation of contract. In case he fails to enforce contract and the outsourced function is not performed at par as per contract and penalties have not been imposed he shall be liable for non-action. Moreover, only reporting of violation of contract shall not suffice but he has to ensure follow up till the penalty has been imposed and action as envisaged in contract in case of violation has been taken.

Eligibility Criteria (Admin Officer)

1. Minimum qualification Masters' degree in Economics/ Public Administration/ Finance/ MBA Finance / Administration / Statistic / Computer Science/M.Com / BSc Engineering/ Pharm D or equivalent from HEC recognized University
2. Minimum 1 year post degree relevant professional experience (Additional credit may be given for hospital administration/ Public sector administration of similar nature)

Eligibility Criteria (Assistant Admin Officer)

1. Minimum qualification Masters' degree in Social Sciences / Public Administration / MBA / ACMA / ACCA / Statistics/ Computer Science / M.Com / Pharm D or equivalent from HEC recognized University
2. Relevant professional experience will be preferred (Additional credit may be given for hospital administration/ Public sector administration of similar nature)

5.8.2.6 IT/STATISTICAL OFFICER

He shall be responsible for IT support for all IT interventions in the hospital.

He shall be in liaison with PITB/HISDU for proper reflection of hospital record on PITB dashboard. In case there is any discrepancy or error he shall resolve the issue. Moreover, he shall be responsible for functionality of all IT equipment.

Eligibility Criteria

1. Minimum qualification Masters' degree in Computer Science / MCS / BSCS (Hons) / MSC Statistics/ MBA / M Com / BS Engineering or equivalent from HEC recognized University
2. 1 years post degree experience of IT / Data analysis (Additional credit may be given for similar assignment experience)

5.8.2.7 QUALITY ASSURANCE OFFICER

He shall be responsible for quality of all things in the hospital.

Eligible Criteria

1. Masters in Total Quality Management / Masters in Public Health/ Masters in Health Administration/ Masters in Hospital Management / Masters in Biochemistry / Biotechnology / Molecular Biology / Microbiology from an HEC recognized University or equivalent.

   OR

   16 years education along with Post graduate diploma in Total Quality Management/ Post graduate diploma in Health Safety and Environmental Management System / Post graduate diploma in Healthcare and Hospital Management / Quality Assurance or equivalent.
2. Minimum 1 year post degree relevant professional experience.

5.8.2.8 BIO-MEDICAL ENGINEER

He shall be responsible for all items of Bio-Medical and Non-Bio-Medical in the hospital.

Eligible Criteria

1. BSc Bio-Medical Engineering / BSc Electrical Engineering / BSc Electronics or equivalent from HEC recognized University.
2. Minimum 1 year post degree relevant experience. 2 year experience is preferable.

5.8.2.9 LOGISTICS OFFICER

He shall be responsible for Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding in the hospital.

Eligible Criteria

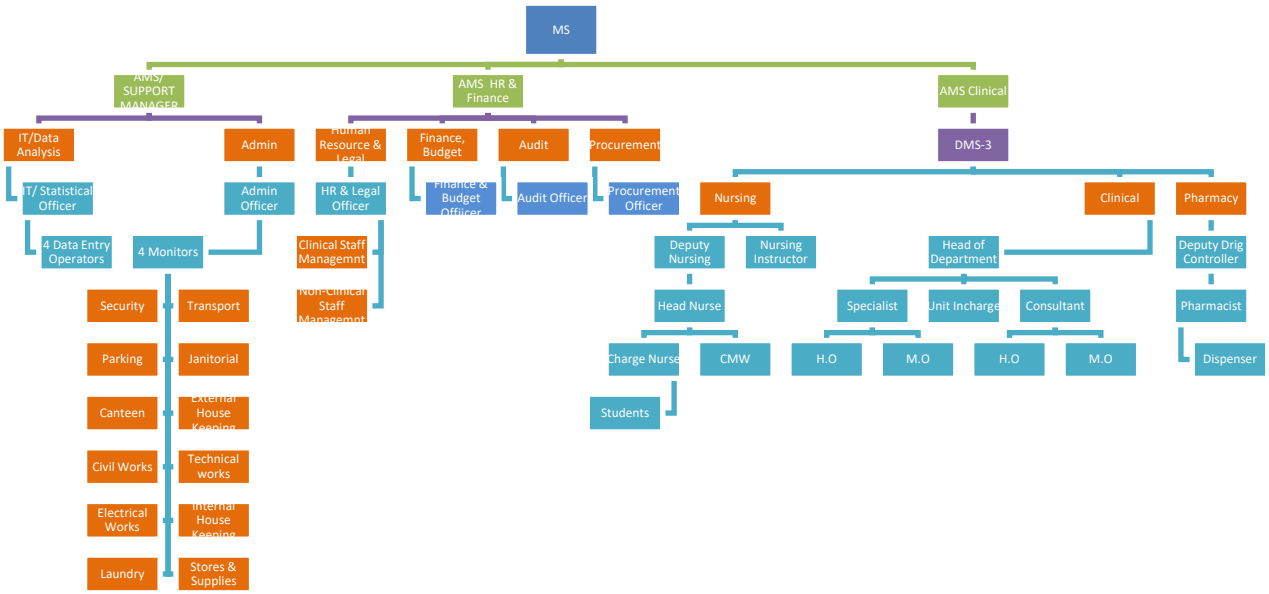
1. M.Sc. Supply Chain Management/ MBA or Equivalent.
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

5.8.2.10 Data Entry Operators (DEO)

Four Data entry operators shall help IT officer in dispensation of his responsibilities.

Eligible Criteria

1. Minimum qualification BA / BSc / B.COM / BCS or equivalent from HEC recognized University. In case of BA / B.Com candidate must have six month computer course / Diploma.
2. Proficient in MS Word/ MS Excel/ MS Power point. Candidate must have typing speed of minimum 30 WPM. (additional credit may be given for additional relevant certified computer courses)
3. 1 years post degree relevant experience



Financial Implications of New Management Model

Name of Post	No. of Employees	Revised Pay package	
		Per Month Salary	Salary for One Year

ADMIN OFFICER	1	105,000	1,260,000
HUMAN RESOURCE OFFICER	1	105,000	1,260,000
IT/STATISTICAL OFFICER	1	105,000	1,260,000
FINANCE & BUDGET OFFICER	1	105,000	1,260,000
AUDIT OFFICER	1	105,000	1,260,000
PROCUREMENT OFFICER	1	105,000	1,260,000
LOGISTICS OFFICER	1	105,000	1,260,000
BIOMEDICAL ENGINEER	1	105,000	1,260,000
QUALITY ASSURANCE OFFICER	1	105,000	1,260,000
DATA ENTRY OPERATOR (DEO)	4	44,000	2,112,000
ASSISTANT ADMIN OFFICER	4	70,000	3,360,000
	17	**1,059,000**	**16,812,000**

Project Management Unit (PMU), Primary & Secondary Healthcare Department

Government of the Punjab decided to reform primary and secondary healthcare network into a robust, proficient and vibrant delivery system. It was a landmark initiative to revamp and rehabilitate DHQ /THQ Hospitals throughout the province. Revamping of DHQ and THQ Hospitals has been a flagship program of Primary and Secondary Healthcare Department. Scope of Revamping program includes six major components like (a) Addition of human resource, (b) Rehabilitation and improvement of infrastructure, (c) Supply of missing biomedical and non-biomedical equipment; (d) Introduction of IT-based solutions, (e) Outsourcing of allied services and (f) Standardization of hospital protocols. It was realized that a dedicated Project Management Unit (PMU) to be established to undertake this ambitious revamping program, which would steer all these components towards successful service delivery meeting the quality on priority basis.

5.9 RELATIONSHIP WITH SECTORAL OBJECTIVES

The Government of the Punjab, Primary & Secondary Healthcare Department is in the process of undertaking number of initiatives to improve health care delivery system in the province. The Government of the Punjab is firmly committed to provide health care services at the doorstep of the community through integrated approach. A number of projects to improve emergency health care service particularly targeting on the promptness and quality have been initiated. Although major focus is on disease prevention and health promotion strategies by providing specialist health care services to victims of various diseases in the patients is one of the top most priority. The instant project will be a major wing to health department with line departments.

Mainly the linkage with social welfare and human empowerment, labour and manpower, Education Department, Special Education, Home of the project will be in a vibrant environment in the holistic manner. The scope of the project itself aims to establish horizontal linkage with all the stakeholders through multi-sectorial approach. The health care facilities and ongoing services provided in the hospital will seek strength and viability from its linkage and public ownership.

5.10 PATIENT MANAGEMENT PROTOCOL

5.10.1 EMERGENCY:

1. Initial reception and computerization of data, issuance of medical record number and preparation of record file.
2. Patients seen by C.M.O. initial assessment (brief history and physical examination) is entered on the emergency slip/file initial treatment is started.
3. C.M.O calls the medical officer / house officer of the relevant department who takes on of the following action:-
    i. Discharges the patient from emergency department after the patient is stabilized (himself or after consultation).
    ii. Returns the patient in emergency department and inform the consultant or call such patient is either discharged after some time i.e. 2 hours of admitted later on
    iii. Patient is straight way admitted by the medical officer himself or in consultation with the consultant
4. A separate record is maintained by each department. Each patient discusses at the morning meeting and any pitfalls are any pitfalls are corrected.

5. The patient who is admitted is again entered into the computer in the ward, complete history and physical examination is carried out and relevant lab & radiological investigations are ordered. (If not already done in the emergency department).
6. The definitive management is either started by the medical officer himself or in consultation with the consultant. (Telephone or physically). The patient is prepared for surgery if required.
7. At the evening round of the ward, the patients admitted throughout the day (Through OPD or emergency) are seen by the specialist. Appropriate changes in the management are carried out.
8. During the night, medical officer & house officer will be on duty and they will remain in contact with consultant.
9. In the morning round all the new admissions and old patients are thoroughly discussed management / treatment changed, surgery ordered or discharge ordered.
10. The discharge certificate is either prepared by the house officer or medical officer. If prepared by the house officer, it is countersigned by the medical officer

Appropriate changes are made in the computer record after discharge. The file is sent to the central record.

5.10.2 <u>O.P.D:</u>

1. After the initial registration and issuance of computerized number patient is sent to the relevant medical officer with the OPD slip/file.
2. The medical officer / house officer of the relevant department performs the initial assessment. The medical officer himself advises the treatment / investigation or refers the patients to the specialist or admits the patient.
3. After admission. The same routine is followed which has been mentioned in the case of admission through emergency.

5.10.3 <u>DEATH OR END OF LIFE MANAGEMENT</u>.

1. The decision regarding resuscitation is made at the initial stages by the medical officer / house officer or specialist in consultation with the patient himself and / attendants.
2. The DNR (Do not resuscitate) patients are only seen by the medical officer/ hose officer at the time of death.
3. For the patients to be resuscitated, a special code (blue code) is declared when patient go onto cardiac or the terminal events.
4. The policy for very sick / terminal and dying patients is formulated at the hospital administration level and appropriate

modifications are decided in the relevant department for each patient.

5. Every death is discussed weekly at the mortality committee at the department and at the hospital level cleared by the Medical Superintendent.

5.10.4 INVENTORY CONTROL SYSTEM

The stock keeping and issuance of such items shall also be controlled and monitored through closer supervision and checks and balance system built in the software. The stock and expense of durable and consumable items will be kept in the system and also as hard copies. The main stores computers will be linked with the sub stores computers through networking. The areas like emergency. Outpatient department, Indoor registration desks, Laboratory and Radiology Department, ICUs, etc., will have linkages with the main and sub stores to know about:-

1. Stock in hand of various items
2. New receipt of these items
3. The items which have been issued to other departments
4. The Items which are not available
5. The expenditure incurred on the purchase.

The budget and details of account shall be linked with the financial control system.

5.10.5 PROJECT MONITORING COMMITTEE

A Project Monitoring Committee is hereby constituted as under to monitor the project regarding Revamping of Hospital.

1.	DC Concerned	(Chairman)
2.	DMO, Concerned	(Member)
3.	Executive Engineer Buildings	(Member)
4.	AC Concerned	(Member)
5.	MS DHQ Hospital	(Secretary/Member)

The committee will monitor the progress of the project and will hold regular weekly meeting to review the progress.

6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT

Attached

6. DESCRIPTION, JUSTIFICATION AND TECHNICAL PARAMETERS

The scheme has been estimated on face of the factual basic requirements and if needed, alterations and has been quoted in this PC-I. The Population of District Khushab is more than 1.460 million. The area of the DHQ Hospital Khushab is 958326 SFT land.

6.1 DESCRIPTION AND JUSTIFICATION

Government of the Punjab has taken a special initiative for Revamping of DHQs and THQs hospitals all over the Punjab. The instant PC-I is meant for completion of Balance work of Revamping of the said Hospital. For this purpose a block allocation of Rs.1300 million has been earmarked in ADP at G.S.No 660 during 2022-23. Hence the PC-I is submitted.

Punjab has a unique burden of disease where on the one hand preventable diseases still take a heavy toll, on the other hand, diseases which were previously believed to have had been effectively curtailed, have re-emerged. This is particularly in view of the targets set under Sustainable Development Goals (SDGs) such as the end of epidemics such as aids, tuberculosis and malaria by the year 2030, and control over hepatitis, water-borne diseases and other communicable diseases while reduction to one-third of premature mortality due to non-communicable diseases through ensuring availability of effective prevention and treatment.

Primary Health sector in the province is not in a satisfactory condition at this point in time. In order to pay better attention to the primary and secondary health department, the Government of Punjab has created a new department. Government plans to launch a major program comprising several major projects and interventions in the primary health sector with a view to carry out a 360 overhaul of the health machinery. This program will be launched in 25 DHQ hospitals and 100 THQ hospitals of the province.

Civil work revamping of all DHQ & 15 THQ Hospitals was undertaken during the FY 2016-17 through Infrastructure Development Authority Punjab (IDAP). Later on the IDAP informed that they will not be able to take the next revamping plan of DHQ/THQ Hospitals of Punjab on the grounds that it does not fall in the project role of IDAP specified in the 36th meeting of Principal Cabinet of IDAP held on 06-10-2020. Accordingly, on the basis of revised RCE of IDAP and de-scope civil work for 25 sub-schemes of all DHQ and 15 THQ Hospitals have been approved from PDWP in its meeting held on 36-03-2021 and DDSC meeting held on 29-04-2021. Sub-schemes of all DHQ & 15 THQ Hospitals were concluded.

Thereafter it was decided to complete the balance civil work of revamping through C&W Department and a block scheme titled "Balance Work of Revamping of all DHQ/15 THQ Hospitals in Punjab" was included in ADP 2021-22. Accordingly, the Rough Cost estimates of balance civil work has been got prepared from the Punjab Buildings Department for preparation of PC-Is and were approved from the DDSC. There is no change in cost of civil work component in the revised scheme of the PC-I.

JUSTIFICATION FOR REVISION OF PC-I

1. In place of the clerical positions, the Department introduced a New Management Structure (NMS), in all District and Tehsil Headquarters Hospitals. The officers/officials recruited as a part of the NMS have a minimum of 16 years of education. Introduction of New Management Structures (NMS) across all secondary hospitals in the Punjab, has allowed for the overall efficiency of District and Tehsil Headquarters Hospitals. In each Tehsil Headquarter Hospital HR under MNS has been provided for smooth running of the health services. Pay Package for NMS Staff was never been revised since 2017-18, therefore it was decided to approach the P&D Department for revision of Pay package. The PDWP approved revised pay page in its meeting held on 08-02-2022 based on PPS approved in 60th PDWP meeting as under: -

Name of Posts	**60th PDWP Meeting**		
	PPS Assigned	Permissible Range (PKR) & Annual increment	Approved Pay Package
HR & Legal Officer, IT & Statistical Officer, Admin Officer, Procurement Officer, Finance & Budget Officer, Logistics Officer, Quality Assurance Officer, Audit Officer and Biomedical Engineer	PPS-6	75,000-105,000 (8% annual incr.)	75,000
Assistant Admin Officer	PPS-5	50,000-75000 (10% annual incr.)	50,000
Data Entry Operator	PPS-3	35,000-55,000 (10% annual incr.)	35,000

Now the Planning & Development Board vide letter No.12(24)PO(COORD-II)P&D/2022 dated 14-07-2022 has informed that revised standard pay package

were discussed and approved by the 83rd PDWP meeting held on 28-06-2022 under the chairmanship of Chairman P&D Board for all ADP funded Project posts of Department /Organizations working in Government of the Punjab. Therefore, the revised Pay Package has been incorporated in the revised PC-I. Due this the revenue component meant only for salaries of NMS staff has been increased.

2. As the gestation period of the PC-I till 30.06.2023, therefore, the cost of NMS has been revised for smooth running of the all DHQ /15 THQ Hospitals and hence PC-I has been proposed till 30- 06-2025.

3. **6.1.2 DHQ/THQ Hospitals covered under the Project:** The location map of the DHQ and THQ hospitals that will be taken up for rehabilitation in this program are

given below

PROJECT MANAGEMENT UNIT
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT

LOCATION OF DHQ AND THQ HOSPITALS IN PUNJAB

The names of the DHQ and THQ hospitals that will be taken up for completion of balance work of in this program are given below:

1. DHQ Hospital Attock
2. DHQ Hospital Bahawalnagar
3. DHQ Hospital Bhakhar
4. DHQ Hospital Chakwal
5. DHQ Hospital Chiniot
6. DHQ Hospital Hafizabad
7. DHQ Hospital Jhang
8. DHQ Hospital Jhelum
9. DHQ Hospital Kasur
10. DHQ Hospital Khanewal
11. DHQ Hospital Khushab
12. DHQ Hospital Layyah
13. DHQ Hospital Lodhran
14. DHQ Hospital MBD
15. DHQ Hospital Mianwali
16. DHQ Hospital Muzaffargarh
17. DHQ Hospital Nankana Sahib
18. DHQ Hospital Narowal
19. DHQ Hospital Okara
20. DHQ Hospital Okara South City
21. DHQ Hospital Pakpattan
22. DHQ Hospital Rajanpur
23. DHQ Hospital Sheikhupura
24. DHQ Hospital T T Singh
25. DHQ Hospital Vehari
26. THQ Hospital Ahmedpur East District Bhahawalpur
27. THQ Hospital Arifwala District Pakpattan
28. THQ Hospital Burewala District Vehari
29. THQ Hospital Chichawatni District Sahiwal
30. THQ Hospital Chistian District Bhahawalnagar
31. THQ Hospital Daska District Sialkot
32. THQ Hospital Esa Khel District Mianwali
33. THQ Hospital Gojra District Toba Tek Singh
34. THQ Hospital Hazro District Attock
35. THQ Hospital Kamokee District Gujranwala
36. THQ Hospital Kot Addu District Muzaffargarh
37. THQ Hospital Mian Channu District Khanewal
38. THQ Hospital Noorpur Thal District Khushab
39. THQ Hospital Shujabad District Multan
40. THQ Hospital Taunsa District Dera Ghazi Khan

6.2 SECTORAL SPECIFIC INFORMATION

Social Sectors, Health Department

7. CAPITAL COST ESTIMATES

Financial Components: Revenue
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):N/A

Grant Number: Development - (PC22036)
LO NO:LO21010533
A/C To be Credited: Assan Assignment

PKR Million

Sr #	Object Code	2021-2022		2022-2023		2023-2024		2024-2025	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A05270**-To Others	0.000	0.000	15.479	0.000	20.000	0.000	20.000	0.000
Total		**0.000**	**0.000**	**15.479**	**0.000**	**20.000**	**0.000**	**20.000**	**0.000**

Financial Components: Capital
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):N/A

Grant Number: Government Buildings - (PC12042)
LO NO:LO21010726
A/C To be Credited: Assan Assignment

PKR Million

Sr #	Object Code	2021-2022		2022-2023		2023-2024		2024-2025	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A12403**-Other Buildings	0.000	0.000	15.174	0.000	15.000	0.000	15.000	0.000
Total		**0.000**	**0.000**	**15.174**	**0.000**	**15.000**	**0.000**	**15.000**	**0.000**

1. **Building**: Renovation of existing building will be required. In this regard an estimates has been prepared from the Punjab Buildings department (C&W Department) and attached with the PC-I.

2. **Human resource:** Human resource is required for implementation of project – Provision of salaries of staff of New Management Structure (NMS) working in the said hospital till the vacation of stay by the honorable Lahore High Court, Lahore and completion of conversion of these posts to non-development mode.

Abstract of Cost

Balance work of Revamping of DHQ Hospital Khushab

Scope of work	Original Cost			Amended Cost			1st Revised Cost		
	Capital	Revenue	Total	Capital	Revenue	Total	Capital	Revenue	Total
Capital component									
Internal Development	0.000	0.000	0.000	3.661	0.000	3.661	3.661	0.000	3.661
External Development	35.137	0.000	35.137	38.102	0.000	38.102	38.102	0.000	38.102
Water filtration plant	5.775	0.000	5.775	3.411	0.000	3.411	3.411	0.000	3.411
Total Capital Component	**40.912**	**0.000**	**40.912**	**45.174**	**0.000**	**45.174**	**45.174**	**0.000**	**45.174**
Revenue component									
Human resource (HR) plan	0.000	25.440	25.440	0.000	25.440	25.440	0.000	55.479	55.479
Total Revenue component	**0.000**	**25.440**	**25.440**	**0.000**	**25.440**	**25.440**	**0.000**	**55.479**	**55.479**
Total	**40.912**	**25.440**	**66.352**	**45.174**	**25.440**	**70.614**	**45.174**	**55.479**	**100.653**
Grand Total	**40.912**	**25.440**	**66.352**	**45.174**	**25.440**	**70.614**	**45.174**	**55.479**	**100.653**

Human Resource Model of DHQ Hospital

	Original				1st Revised				
NAME OF POST	**No. of Emplyees**	**Per Month Salary**	**Per Month Salary for all Person**	**Salary for Two Years**	**No. of Emplyees**	**Project Pay Scale**	**Per Month Salary**	**Per Month Salary for all Person**	**Salary for Two Years**
ADMIN OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
HUMAN RESOURCE/LEGAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
IT/STATISTICAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
FINANCE & BUDGET OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
AUDIT OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
PROCUREMENT OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	140,000	3,360,000	4	3	44,000	176,000	5,456,000
QUALITY ASSURANCE OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
BIO MEDICAL ENGINEER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
LOGISTICS OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
ASSISTANT ADMIN OFFICER	4	50,000	200,000	4,800,000	4	5	70,000	280,000	8,680,000
Sub Total of HR Model	**17**		**1,060,000**	**25,440,000**	**17**		**1,059,000**	**1,401,000**	**43,431,000**
				25.440					**43.431**
Utilization of HR Component				**12.048**					
									55.479

PH #048-9230371 August 2021

Fax # 048-9230367

To,

(24)

The Chief Executive Officer,
District Health Authority,
Khushab.

No. 4331 /EST **Dated** 28 -12 -/2021

Subject: ***AMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125 BEDDED DISTRICT HEAD QUARTER HOSPITAL KHUSHAB AT JAUHARABAD DISTRICT KHUSHAB (ADP NO.792 FOR THE YEAR 2021-22).***

Amended Rough Cost Estimate amounting to **Rs.45.174(M)** for the scheme cited as subject based on the plinth area rates 1st Bi-annual 2022, (1st January 2022 to 30th June 2022) is forwarded herewith duly vetted for arranging Administrative Approval / Funds.

The scheme was administratively approved for Rs.40.912(M) vide Secretary to Govt: of the Punjab P&SH Department Lahore No.PO(D-II)Revamping/P-I/21 dated 09.11.2021.

DA/Estimate

Superintending Engineer,
Building Circle,
Sargodha

No. **Dated** **/2021**

A copy is forwarded to The Executive Engineer Buildings Division, Khushab, for information with reference to his letter No.540/EST dated 27.12.2021.

DA/Nil

Superintending Engineer,
Building Circle,
Sargodha

PUNJAB BUILDINGS DEPARTMENT

KHUSHAB.

PROVINCE PUNJAB

DIVISION BUILDINGS DIVISION, KHUSHAB.

SUB DIVISION BUILDINGS SUB DIVISION, KHUSHAB

NAME OF WORK AMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 120 BEDED DISTRICT HEAD QUARTER HOSPITAL KHUSHAB AT JAUHARABAD.

RATES 1st BI-ANNUAL PERIOD
(1ST January 2022 TO 30 June 2022 Plain Area)

ESTIMATED COST 45.174 ~~45.367~~ (M)

AMMENDED ROUGH COST ESTIMATE FRAMED IN THE OFFICE OF EXECUTIVE ENGINEER BUILDINGS DIVISION, KHUSHAB

NAME OF WORK: **AMMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125-BEDED DISTRICT HEAD QUARTER HOSPITAL KHUSHAB AT JAUHARABAD (ADP SCHEME NO.792 FOR THE YEAR 2021-2022:-**

HISTORY

The District Head Quarter Hospital Khushab has been constructed about 35 year ago. The sad building not full fill be Present requirement. The Chief Executive Officer District Health Authority Khushab / M.S DHQ Khushab has requested to provide Estimate of Revamping of sad building. The scheme has been approved for amount of ~~45.327~~ 45.174 (M) in this regard detailed estimate is submitted for Technical sanction please.

SCOPE OF WORK.

1. Car Pet Road
2. R.C.C Slab
3. Walk Way
4. Street light
5. External Sewerage
6. R.O plant
7. Boundary Wall

SPECIFICATIONS The work will be got executed according to the standard specifications of Punjab Building Department.

RATES This estimate has been prepared on the basis of rates for the 1st Bi Annual 2022 (Plain Area) of District Khushab.

COST The cost of this estimate to Rs.~~45.327~~ 45.174 **(M).**

Sub Divisional Officer
Buildings Sub Division
Khushab

Executive Engineer
Buildings Division
Khushab

(3)

Primary & Secondary Healthcare Department

GOVERNMENT OF THE PUNJAB
Dated Lahore the 09-11-2021

ORDER

No. PO(D-II)Revamping/P-I/21: Consequent upon the decision of Departmental Development Sub Committee (DDSC), in its meeting held on 29.09.2021, the Governor of the Punjab is pleased to accord Administrative Approval of 12 sub-schemes under block scheme titled "Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab" at cost mentioned against each scheme, with gestation period from 01.07.2021 to 30.06.2023:

Rs. in Millions

Sr. No.	Sub Scheme Title	Approved Cost		
		Capital Component	Revenue Component	Total
1	Balance work of Revamping of DHQ Hospital Khanewal	49.823	25.440	75.263
2	Balance work of Revamping of DHQ Hospital Layyah	43.557	25.440	68.997
3	Balance work of Revamping of DHQ Hospital Rajanpur	49.999	25.440	75.439
4	Balance work of Revamping of DHQ Hospital Mianwali	0.000	25.440	25.440
5	Balance work of Revamping of DHQ Hospital Khushab	40.912	25.440	66.352
6	Balance work of Revamping of THQ Hospital Chishtian, District Bahawalnagar	30.326	17.520	47.846
7	Balance work of Revamping of THQ Hospital Shujabad, District Multan	136.550	17.520	154.070
8	Balance work of Revamping of THQ Hospital Mian Channu	42.160	21.540	63.700
9	Balance work of Revamping of DHQ Hospital Vehari	197.408	27.560	224.968
10	Balance work of Revamping of DHQ Hospital Lodhran	72.453	25.440	97.893
11	Balance work of Revamping of THQ Hospital Burewala, District Vehari	90.722	17.520	108.242
12	Balance work of Revamping of DHQ Hospital Muzafargarh	143.775	25.440	169.215

2. The expenditure involved will be debitable under the following heads of account.

Capital Component — *Grant No.12042 (042) Government Building04 Economic Affairs 045 Construction and Transport -0457 Construction (Work)0457-02 Building and structure.*

(4)

Revenue Component — *Grant No. PC-22038 (038) Development -07Health -073 – Hospital Services-0731-General Hospital Services -073101 General Hospital Services.*

(IMRAN SIKANDAR BALOCH)
SECRETARY P&SH DEPARTMENT

NO. & DATE EVEN:
A copy is forwarded for information and necessary action to the.-

1. Accountant General, Punjab, Lahore.
2. Chief (Health-II), Planning & Development Department, Lahore.
3. Director General Health Services, Punjab, 24-Cooper Road, Lahore.
4. Chief Engineer (North, Central, South Zones), Buildings Department. (B.&.R) Lahore
5. Project Director, Project Management Unit, P&SH Department.
6. Section Officer (Health-I), Finance Department.

LHE 1420078284 71

AC_____ WT_____
BC_____ PC_____

1, Finance Department.
P&SHC Department.
P&SH Department.
Secretary (Dev & Fin), P&SH Department.
Secretary (Admin), P&SH Department.

(M. ASIF RASHEED)
PLANNING OFFICER (D-II)

Sr. No.	Description of Items	Plinth Area / Quantity	Rates									Unit	Amount (Rs.)	Remarks
			B.P.	Strip Found	Frame Structur	Extra For Foundatio n	Extra For Foundatio n for F.F	E.I	P.H	Sui.Gas	Total			
1	Cost of Dismantling (Detail Attach)	85183 Sft	-	-	-	-	-	-	-	-	85,183.00	P.Sft	Rs. 85183/-	
2	Cost of Carpet Road (Detailed Attach)	33990 Sft	-	-	-	-	-	-	-	-	-	P.Sft	Rs. 3416562/-	
3	Cost of R.C.C Slab (Detail Attach)	2873982 Sft									2,873,982.00	P.Sft	3305079 Rs. 2873982/-	
4	Cost of Approach Road / Walk way Terrace (Detail Attach)	56309 Sft	267								267.00	P.Sft	Rs. 15034503/-	
5	External Sewerage System (Detail Attach)	2148700	-								2,148,700.00	P.Sft	Rs. 2148700/-	
6	R.O Plant Room (Detail Attach)	1336700	-								1,336,700.00	P.Sft	Rs. 1336700/-	
7	Cost of R.O Plant	184275 p/- 705600	-								1842750/- 705,600.00	P.Sft	1842750/- Rs. 705600/-	
8	Electric Installations	3437100/- 3711240	-								3437100/- 3,711,240.00	P.Sft	3437100/- Rs. 3711240/-	
9	Cost of Boundary Wall 9" Thcik 8' Height Above DPC	635 Rft	5333								5,333.00	P.Sft	Rs. 2853155/-	

Sr. No.	Description of Items	Plinth Area / Quantity		B.P.	Strip Found	Frame Structur	Extra For Foundation	Extra For Foundation for F.F	E.I	P.H	Sui.Gas	Total	Unit	Amount (Rs.)	Remarks
10	S/E of razor wire fence 2' dia rings (2 nos in 1') on boundary wall cosnsisting of M.S angle iron 1-1/2" x 1 1/2"x3/16" (3'-6" long) at 7" c/c for fixing razor wire embedded in (1:2:4) cement concrete and M.S square bar 1/2" x 1/2" two No. horizontal i/c painting complete in all respect as approved by the Engineer incharge.	535	Rft	400								400.00	P.Sft	Rs. 214000/-	
11	Street Light (Detail Attach)			~~2407000~~ 2115000/-								~~2,407,900.00~~ 2115000/-	P.Sft	~~Rs. 2407900/-~~ 2115000/-	
													TOTAL (Rs.) =	~~24,787,525~~	35357635/-
11	Add 3% Contingency Charges .													~~1,043,626~~	975134/-
													TOTAL "(Rs.) =	~~35,831,151~~	36332769/-
12	D/D Old Material													95,121	
													TOTAL "(Rs.) =	~~35,736,030~~	36237648/-
6	Add Wapda Conncetion Paid to FESCO													2,500,000	
7	Add 05% PRA.													~~1,788,802~~	1811882/-
8	Add 1% for Horticulture/Plantation.													~~357,960~~	362376/-
													TOTAL (Rs.) =	~~40,380,192~~	40911906/-
													SAY (Rs.) =	~~40,380,000~~	40912000/-
1													OR (Rs.) =	~~40.38 (M)~~	40.912 (M)

Sub Divisional Officer
Building Sub Division,
Khushab.

Executive Engineer,
Building Division
Khushab.

Vetted Tufx 40-912 (M)

Superintending Engineer
Circle

COMPARATIVE STATEMENT

Name of Work: AMMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125 BEDED DISTRICT HEAD QUARTER HOSPITAL KHUSHAB AT JAUHARABAD DISTRICT KHUSHAB " (ADP SCHEME NO.792 2021-2022).

(a) A.A Amount Rs. 40.912 (M)

(b) No.& Date Govt. of The Punjab Primary & Secondary Healthcare Department No.PO (D-II)Revamping/P-I/21 dated 09-11-2021.

II) Amount of Revised Estimate Rs. 45.327 (M)

S.No	DESCRIPTION	AS PER APPROVED ESTIMATE				AS PER AMENDED ESTIMATE				EXCESS	SAVING	REASON
		P-AREA	UNIT	RATE	AMOUNT IN MILLION	P-AREA	UNIT	RATE	AMOUNT IN MILLION			
1	2	3	4	5	6	7	8	9	10	11	12	13
A)	MAIN BUILDING											
3	Cost of Dismantling (Detail Attach)	85183			85183						85183	
4	Cost of Dismantling (Detail Attach)					91645	P-13		91645	91645		
5	Cost of Carpet Road (Detailed Attach)	3416562			3416562						3416562	
6	Cost of Carpet Road (Detailed Attach)					3416562			3416562	3416562		
7	Cost of R.C.C Slab (Detail Attach)	2873982			2873982						2873982	
8	Cost of R.C.C Slab (Detail Attach)					3569739			3569739	3569739		

S.No	DESCRIPTION	AS PER APPROVED ESTIMATE				AS PER AMENDED ESTIMATE				EXCESS	SAVING	REASON
		P-AREA	UNIT	RATE	AMOUNT IN MILLION	P-AREA	UNIT	RATE	AMOUNT IN MILLION			
1	2	3	4	5	6	7	8	9	10	11	12	13
9	Cost of Approach Road / Walk way Terrace (Detail Attach)	15034503			15034503						15034503	
10	Cost of Approach Road / Walk way Terrace (Detail Attach)					16442228		P-14	16442228	16442228		
11	External Sewerage System (Detail Attach)	2148700			2148700						2148700	
12	External Sewerage System (Detail Attach)					2148700			2148700	2148700		
13	R.O Plant Room (Detail Attach)	1336700			1336700						1336700	
14	R.O Plant Room (Detail Attach)					1611700		P-18	1567700 ~~1611700~~	1567700/ ~~1611700~~		
15	Cost of Ro Plant	1842750			1842750						1842750	
16	Cost of Ro Plant					1842750			1842750	1842750		
16	Electric Installation	3437100			3437100						3437100	
16	Electric Installation					3677400		P-17	3676400 ~~3677400~~		0	
17	Cost of Boundary Wall 9" Thcik 8' Height Above DPC	535	P.Rft	5333	2853155						2853155	
18	Cost of Boundary Wall 9" Thcik 8' Height Above DPC					535	P.Rft	6073	3249055	3249055		

S.No	DESCRIPTION	AS PER APPROVED ESTIMATE				AS PER AMENDED ESTIMATE				EXCESS	SAVING	REASON
		P-AREA	UNIT	RATE	AMOUNT IN MILLION	P-AREA	UNIT	RATE	AMOUNT IN MILLION			
1	2	3	4	5	6	7	8	9	10	11	12	13
19	S/E of razor wire fence 2' dia rings (2 nos in 1') on boundary wall cosnsisting of M.S angle iron 1-1/2" x 1 1/2"x3/16" (3'-6" long) at 7" c/c for fixing razor wire embedded in (1:2:4) cement concrete and M.S square bar 1/2" x 1/2" two No. horizontal i/c painting complete in all respect as approved by the Engineer Incharge.	535	P.Sft	400	214000						214000	
20	S/E of razor wire fence 2' dia rings (2 nos in 1') on boundary wall cosnsisting of M.S angle iron 1-1/2" x 1 1/2"x3/16" (3'-6" long) at 7" c/c for fixing razor wire embedded in (1:2:4) cement concrete and M.S square bar 1/2" x 1/2" two No. horizontal i/c painting complete in all respect as approved by the Engineer Incharge.					535	P.Sft	322.55	172564	172564		
21	Street Light (Detail Attach)	2115000			2115000						2115000	

S.No	DESCRIPTION	AS PER APPROVED ESTIMATE				AS PER AMENDED ESTIMATE				EXCESS	SAVING	REASON
		P-AREA	UNIT	RATE	AMOUNT IN MILLION	P-AREA	UNIT	RATE	AMOUNT IN MILLION			
1	2	3	4	5	6	7	8	9	10	11	12	13
22	Street Light (Detail Attach)					3096000		P-33	3096000	3096000		
	Total				**35357635**				~~3931834~~ 29273343	-35640943	**35357635**	
	Add3% Contingency Charges				**975134**				~~1179550~~ 1080729	- 204416	**0**	
	Total				**36332769**				~~40497894~~ 40354072	35845360	**35357635**	
	D/D Old Material				**95121**				**95121**	-	-	
	Total				**36237648**				~~40402773~~	35845360	**35357635**	
	Add for External Services Connection Charges payable to FESCO				2500000				2500000 4025895	-	-	
	Add 5% PRA.				1811882				~~2020139~~ 2019948	- 208257	-	
	Add 1% Horticulture / Tree Plantaion				362376				~~404028~~ 403590	- 41652	-	
	Grand Total				**40911906**				~~45326939~~ 45174489	36095268	**35357635**	
	Rs In Million				**40.912**				~~45.327~~ 45.174	737633		

vetted for Rs 45.174m/ M.Naz

Sub Engineer

Sub Divisional Officer,
Buildings Sub Division
Khushab

Superintending Engineer,
Buildings Circle
Mianwali

Executive Engineer,
Buildings Division Khushab

S.No	DESCRIPTION	AS PER APPROVED ESTIMATE				AS PER AMENDED ESTIMATE				EXCESS	SAVING	REASON
		P-AREA	UNIT	RATE	AMOUNT IN MILLION	P-AREA	UNIT	RATE	AMOUNT IN MILLION			
1	2	3	4	5	6	7	8	9	10	11	12	13
22	Street Light (Detail Attach)					3096000			3096000	3096000		
	Total				35357635				39318343	39318343	35357635	
	Add3% Contingency Charges				975134				1179550	204416	0	
	Total				36332769				40497894	39522760	35357635	
	D/D Old Material				95121				95121	-	-	
	Total				36237648				40402773	39522760	35357635	
	Add for External Services Connection Charges payable to FESCO				2500000				2500000	-	-	
	Add 5% PRA.				1811882				2020139	208257	-	
	Add 1% Horticulture / Tree Plantaion				362376				404028	41652	-	
	Grand Total				40911906				45326939	39772668	35357635	
	Rs In Million				40.912				45.327	4415033		

Sub Engineer

Sub Divisional Officer,
Buildings Sub Division
Khushab

Executive Engineer,
Buildings Division Khushab

AMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125 BEDED DISTRICT HEAD QUARTER HOSPITAL KHUSHAB AT JAUHARABAD.

Sr. No.	Description of Items	Plinth Area / Quantity		Rates									Unit	Amount (Rs.)	Remarks
				B.P.	Strip Found	Frame Structur	Extra For Foundation	Extra For Foundation for F.F	E.I	P.H	Sui.Gas	Total			
1	Cost of Dismantling (Detail Attach)	91645	Sft	-	-	-	-	-	-	-	P-14	91,645.00	P.Sft	Rs. 91645/-	
2	Cost of Carpet Road (Detailed Attach)	3416562	Sft	-	-	-	-	-	-	-	-	3,416,562.00	P.Sft	Rs. 3416562/-	
3	Cost of R.C.C Slab (Detail Attach)	3569739	Sft	-						P-16		3,569,739.00	P.Sft	Rs. 3569739/-	
4	Cost of Approach Road / Walk way Terrace (Detail Attach)	56309	Sft	292						P-17		292.00	P.Sft	Rs. 16442228/-	
5	External Sewerage System (Detail Attach)	2148700		-								2,148,700.00	P.Sft	Rs. 2148700/-	
6	R.O Plant Room (Detail Attach)	1611700		-								1,611,700.00	P.Sft	Rs. 1611700/-	
6	Plant Room	1842750		-								1,842,750.00	P.Sft	Rs. 1842750/-	
8	Electric Installations	3677400		-								3,677,400.00	P.Sft	Rs. 3677400/-	
9	Cost of Boundary Wall 9" Thcik 8' Height Above DPC	535	Rft	6073								6,073.00	P.Sft	Rs. 3249055/-	

Sr. No.	Description of Items	Plinth Area / Quantity		Rates								Unit	Amount (Rs.)	Remarks
				B.P.	Strip Found	Frame Structur	Extra For Foundation	Extra For Foundation for F.F	E.I	P.H	Sul.Gas	Total			
10	S/E of razor wire fence 2' dia rings (2 nos in 1') on boundary wall cosnsisting of M.S angle iron 1-1/2" x 1 1/2"x3/16" (3'-6" long) at 7" c/c for fixing razor wire embedded in (1:2:4) cement concrete and M.S square bar 1/2" x 1/2" two No. horizontal i/c painting complete in all respect as approved by the Engineer Incharge.	535	Rft	322.55								322.55	P.Sft	Rs. 172564/-	
11	Street Light (Detail Attach)			3096000								3,096,000.00	P.Sft	Rs. 3096000/-	
													TOTAL (Rs.) =	39,318,343	
	Add 3% Contingency Charges													1,179,550	
													TOTAL "(Rs.) =	40,497,894	
12	D/D Old Material													95,121	
													TOTAL "(Rs.) =	40,402,773	
i	Add Wapda Conncetion Paid to FESCO													2,500,000	
ii	Add 05% PRA.													2,020,139	
iii	Add 1% for Horticulture/Plantation.													404,028	
													TOTAL (Rs.) =	45,326,939	
													SAY (Rs.) =	45,327,000	
													OR (Rs.) =	45.327 (M)	

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Khushab.

Executive Engineer,
Building Division
Khushab.

Dismantling

Based on MRS 1st Bi Annual 2022 (1st January 2022 to 30 June 2022)

1 Dismantling of pacca brick work (1:6) cement sand mortar.

1.00	x	166	x	3/4	x	5 3/4	=	716	Cft
200.00	x	3/4	x	5 3/4	x	-	=	863	Cft
22.50	x	3/4	x	5 3/4	x	-	=	97	Cft
60.00	x	1 1/8	x	3/8	x	5 3/4	=	146	Cft
1.00	x	166	x	1 1/8	x	1 1/2	=	280	Cft
1.00	x	200	x	1 1/8	x	1 1/2	=	338	Cft
1.00	x	22 1/2	x	1 1/8	x	1 1/2	=	38	Cft
				Total			=	**2477**	Cft

2477 @ = **3500.65** %Cft **86695**

2 Dismantling of cement concrete plain (1:2:4) complete.

1.00	x	166	x	1 1/8	x	1/8	=	23	Cft
1.00	x	200	x	1 1/8	x	1/8	=	28	Cft
1.00	x	22 1/2	x	1 1/8	x	1/8	=	3	Cft
				Total			=	**55**	Cft

55 @ = **9060.50** %Cft **4950**

Total **91645**

Sub Engineer

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Tuff Paver / Approach Road & Walk Way

Based on MRS 1st Bi Annual 2022 (1st January 2022 to 30 June 2022)

269 1/2	x	32 1/2	x	-	=	8759	Sft
66	x	30	x	-	=	1980	Sft
146	x	18 1/2	x	-	=	2701	Sft
276	x	18 1/2	x	-	=	5106	Sft
222	x	18 1/2	x	-	=	4107	Sft
160	x	115	x	-	=	18400	Sft
134	x	8	x	-	=	1072	Sft
68	x	40	x	-	=	2720	Sft
2	x	300	x	8	=	4800	Sft
1	x	84	x	26	=	2184	Sft
2	x	280	x	8	=	4480	Sft
		Total			=	**56309**	Sft

Sub Engineer

Sub Divisional Officer,
Buildings Sub Division
Khushab

R.CC Slab

Based on MRS 1st Bi Annual 2022 (1st January 2022 to 30 June 2022)

1 Providing and laying dry rammend brick or stone ballast 1-1/2" to 2" gauge.

1	x	120	x	50	x	1/2	= 3000 Cft
				Total			**= 3000 Cft**

3000 Cft @ 4447.8 %Cft 133434

2 R.C.C (1:2:4) raft strip w.o horizantal Shuttering.

1	x	120	x	50	x	1/2	= 3000 Cft
				Total			**= 3000 Cft**

3000 Cft @ 350.3 P.Cft 1050900

3 Fabrication of mild steel 40 grade

3000	x	6 3/4	x	0.454	=	9194 Kg	
				Total		**= 9194 Kg**	

9194 Kg @ 25946.65 %Kg 2385405

Total 3569739

Sub Engineer

Sub-Divisional Officer,
Buildings Sub Division
Khushab

ANALYSIS OF ROAD

Based On MRS 1st Bi-Annual 2022 (1st January 2022 to 30 June 2022 Plain Area)

1 Excavation in foundation of building, bridges and other structures, induding dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30m) and lift upto 5 ft.(1.5 m) b) in ordinary soil

2	x100	x1-1/2	x 3/4	=	225 Cft	
			Total.	=	**225 Cft**	**@Rs.8727.85%OCft Rs. 1964/-**

2 P/L Dry rammed brick or stone ballast 1-1/2" to 2" gauge in F & P

1	x100	x6	x 1/2	=	300 Cft	
2	x100	x1-1/2	x 1/4	=	75 Cft	
			Total.	=	**375 Cft**	**@Rs.4474.80%Cft Rs. 16781/-**

3 Pacca brick work in (1:6) c/s mortar in F&P

2	x100	x1-1/8	x 1/4	=	56 Cft	
2	x100	x 3/4	x1-1/4	=	188 Cft	
			Total.	=	**244 Cft**	**@Rs.23297.05%Cft Rs. 55142/-**

4 P/L tuff paver 60mm thick 7000PSI manufactured by (Izhar Builders/ Tuff Paver Ltd./ Concrete Concept or equivalent) over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing complete as approved/ directed by the engineer incharge.

1	x100	x6		=	600 Sft	
			Total	=	**600 Sft**	**@Rs.126.35/P.Sft Rs. 75810/-**

5 P/L C.C (1:2:4) plain

2	x100	x 3/4	x 1/8	=	19 Cft	
			Total.	=	**19 Cft**	**@Rs.28971.35%Cft Rs. 5505/-**

6 Cement pointing (1:2) deep struck joint on walls upto 20' height mix with red oxide pigment to match the colour of brick (1:3).

2	x100	x1		=	200 Sft	
			Total	=	**200 Sft**	**@Rs.3240.05%Sft Rs. 6480/-**

7 Barrow pit excavation undressed lead upto 3- miles.

2	x100	x5	x1	=	1000 Cft	
			Total.	=	**1000 Cft**	
D/d				=	100 Cft	
			Net Total.	=	**900 Cft**	**@Rs.15177.05%OCft Rs. 13659/-**

Total **Rs. 175341/-**

$$\frac{175341}{600} = 292.24$$

Say @ 292/Sft

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Electric Installations

Based on MRS 1st Bi Annual 2022 (1st January 2022 to 30 June 2022)

1 Supply & erection of coppar conductor cable 4 core 400 mm2 complete in all respects as approved by the engineer incharge.

x	100	+	100	x	-	=	200	Rft
				Total		=	200	Rft

200 @ 12583 P.Rft 2516600

2 Supply and erection of main electric panel board complete 400 AMP(MCCB).

x	1	+	-	x	-	=	1	No
				Total		=	1	No

1 @ 321000 Each 321000

3 Supply and erection of main electric panel board complete 600 AMP (MCCB) with 6 No TP MCCB 65 KA 100/63 AMP complete.

x	1	+	-	x	-	=	1	No
				Total		=	1	No

1 @ 535000 P.Rft 535000

4 Supply and erection of coppar conductor cable 4 core 19/0083".

x	200	+	-	x	-	=	200	Rft
				Total		=	200	Rft

200 @ 1524 P.Rft 304800

Total 3677400

Say Rs. 3677400

Sub Engineer

Sub Divisional Officer,
Buildings Sub Division
Khushab

AMMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125 BEDED DHQ HOSPITAL KHUSHAB AT JAUHARABAD

WATER FILTRATION PLANT MODM

ABSTRACT OF COST

1	Building Portion	Rs	1194100
2	Electric Installation Portion	Rs	213300
2	Sanitary Installation Portion	Rs	204300
		Total Rs:-	1611700

Sub Engineer

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Buildings Sub Division
Khushab

Executive Engineer
Buildings Division
Khushab

AMMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125 BEDED DHQ HOSPITAL KHUSHAB AT JAUHARABAD

R.O Plant

Based On MRS 1st Bi-Annual Period (1st January 2022 to 30 June 2022 Plain Area)

Sr. No.	Description of Items.	Qty.	Unit	Rate	Amount
1	Excavation In foundatio in ordinary soil of building bridges and other structure i/c dag belling dressing refilling around structure other excavated earth watering & ramming leasd upto one chain and lift 5 feet in odinary soil.	1002	%oCft	8727.85	**8745**
2	Cement concrete brick or stone hallast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth: Ratio 1: 6:12	190	%Cft	16755.90	**31836**
3	P/L Dry brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:	65	%Cft	4474.80	**2909**
4	Pacca brick work in cement sand in foundation and plinth ratio 1:6	550	%Cft	23297.05	**128134**
5	P/L DPC of cement concrete 1:2:4 using cement sand shingle i/c bitmen coating with one coat of bitument and single layer of polythene sheet 500 gauge. (1 1/2" thick)	37	%Sft	6660.50	**2464**
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge:- ii) Ratio 1:3 b) ¾ " thick (20 mm)	83	%Sft	4566.75	3790
7	Pacca brick work in cement sand in ground floor ratio 1:6	790	%Cft	25086.95	**198187**

8	RCC in roof slab, beams lintel girders and other structural members lald in situ or precost laid in position or prestressed members cost in situ etc complete in all respect ratio 1:2:4	157	PCft	471.80	**74073**
9	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)	214	PCft	350.30	**74964**
10	Fabrication of mild steel reinforcement for cement concrete i/c cutting bending, laying in position making joints & fastenings i/c cost of binding wire & labour charges for binding of steel reinforcement also includes removal or rust from bars (D. BARS)	1137	%Kg	25946.65	295013
11	Single layer of tiles 9"x4 1/2"x4 1/2" laid over 4" earth & 1" mud plaster without bhoosa grouted with cement sand 1:3 on top of RCC roof slab provided with 34 lbs bitumen coating sand blinded i/c polythene sheet 500 gauge.	190	%Sft	9756.40	**18537**
12	Khurras on roof 2'x2'x6"	2	Each	680.00	1360
13	Providing, laying, cutting, jointing, testing and disinfecting P.V.C. blindpipe with 'B' Class working pressure pipe, in trenches, complete in all respects:- 4" dia	30	PRft	418.35	12551
14	P/F PVC Bend 4" dia	2	Each	477.35	**955**
15	P/F PVC Tee 4" dia	2	Each	1355.50	**2711**

16	1/2" thick cement plaster 1:3 with bitumen coating 10Lbs Sft and polythene sheet 500 gauge (bearing of slab)	54	%Sft	4274.55	2308
17	3/8" thick cement plaster under soffit of RCC roof slab ratio 1:3.	325	%Sft	2958.90	9616
18	1/2" thick cement plasters 1:4 upto 20' hight	955	%Sft	2595.85	24271
19	Cement Pointing deep struck using without redoxide pigment .	670	%Sft	4240.05	28408
20	Filling watering & ramming earth under floor with Scraping earth from foundation etc.	668	%0 Cft	415[illegible].50	2[illegible]
21	Filling watering & ramming earth under floor with new earth excavated from out side lead up to One miles.	311	%0 Cft	15177.05	4720
22	S/F sand under floor or plugging in well.	125	% Cft	2863.20	3579
23	P/L dry rounded rubble or stone brilast 1-1/2" x 3" gauge with 25% sand mixed	125	% Cft	5191.30	6439
24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy /Matt /Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4"thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i /c cutting grinding complete in all respects and asapproved and directed by the Engineer Incharge.12"x18"	203	%Sft	202.80	41168

25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy /Matt /Texture skirting /dado fapproved Color and Shade with adhesiv bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in il respects as approved and directed by the Engineer Incharge 12"x18".	183	%Sft	209.70	38375
26	Providing and laying conglomerate flooring (two coat work) with top layer [illegible] consisting of one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:-2"(50 mm) thick	316	%Sft	10000.60	31602
	P/F [illegible] for dividing the flooring into panels size 1 1/2" x 3/8".	311	PRft	13.20	4110
27	P/F fixing steel door shutter made of angle iron frame 1-1/4"x1-1/4"x3/16" welded with 18 SWG M.S sheet alone with brasses 1"x1"x1/8" on back side and M.S flat 1-1/2"x1/8" on front side i/c locking arrangment and painting 3 coats complete i/c mild steel chowkst of doors, windows, C.windows etc. including holdfast, hinges,etc. complete made of M. S making and threading holes for angle iron 1-1/2"*1-1/2"*1/4" welded with M.S. flat 2"*1/4"three coats complete as approved and directed by the Engr. Incharge	35	P-Sft	800.00	28000

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29	Providing and fixing windows consisting of M.S. box section frame 2"x1½" (50x40mm), leaves frame 1-½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" 10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat andscrews I/C all C.P. fitting and painting 3 coats i/c M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mm x 3 mm) M.S. flat frame complete in all respect.	16	P-Sft	961.45	15383
30	Distempering 3 coats to new surfae	800	% Sft	1150.30	9202
31	[illegible] painting 3 Coat on new surface	325	% Sft	531.50	1727
32	[illegible] applying weather shield paint of approved quality on external surface of building including preparation of surface, [illegible] complete in all respect.	670	% Sft	4685.25	31391
33	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):- (f) Ratio 1: 2: 4	189	% Cft	2891.35	54[illegible]
				TOTAL	1194139
				SAY	1194100

Sub Divisional Officer
Buildings Sub Division
Khushab

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Khushab

AMMENDED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF 125 BEDED DHQ HOSPITAL KHUSHAB AT JAUHARABAD

WATER FILTRATION PLANT ROOM

1 Excavation in foundatio in ordinary soil of building bridges and other structure i/c dag belling dressing refilling around structure other excavated earth watering & ramming leasd upto one chain and lift 5 feet in odinary soil.

	3	x	16	x	3 1/4	x	3	=	468 Cft
	2	x	9 1/2	x	3 1/4	x	3	=	185 Cft
	2	x	1 1/4	x	3 1/4	x	3	=	24 Cft
Toe Wall	2	x	20	x	1 1/2	x	2	=	120 Cft
	2	x	23 1/2	x	1 1/2	x	2	=	141 Cft
Plant Foundation	1	x	8	x	8	x	1	=	64 Cft
							Total	=	**1002 Cft**

2 Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth: Ratio 1: 6:12

	3	x	16	x	3 1/4	x	3/4	=	117 Cft
	2	x	9 1/2	x	3 1/4	x	3/4	=	46 Cft
	2	x	1 1/4	x	3 1/4	x	3/4	=	6 Cft
Plant Foundation	1	x	8	x	8	x	1/3	=	21 Cft
							Total	=	**190 Cft**

3 P/L Dry brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:

Toe Wall	2	x	20	x	1 1/2	x	1/2	=	30 Cft
	2	x	23 1/2	x	1 1/2	x	1/2	=	35 Cft
							Total	=	**65 Cft**

4 Pacca brick work in cement sand in foundation and plinth ratio 1:6

	3	x	15	x	2 1/4	x	1/4	=	25 Cft
	3	x	14 5/8	x	1 7/8	x	1/4	=	21 Cft
	3	x	14 1/4	x	1 1/2	x	1/4	=	16 Cft
	3	x	13 7/8	x	1 1/8	x	1/4	=	12 Cft
	3	x	13 1/2	x	3/4	x	5	=	152 Cft
	2	x	10 1/2	x	2 1/4	x	1/4	=	12 Cft
	2	x	10 7/8	x	1 7/8	x	1/4	=	10 Cft
	2	x	11 1/4	x	1 1/2	x	1/4	=	8 Cft
	2	x	11 5/8	x	1 1/8	x	1/4	=	7 Cft
	2	x	12	x	3/4	x	5	=	90 Cft
	2	x	2 1/4	x	2 1/4	x	1/4	=	3 Cft
	2	x	2 5/8	x	1 7/8	x	1/4	=	2 Cft
	2	x	3	x	1 1/2	x	1/4	=	2 Cft
	2	x	3 3/8	x	1 1/8	x	1/4	=	2 Cft
	2	x	3 3/4	x	3/4	x	5	=	28 Cft
Toe Wall	2	x	19 7/8	x	1 1/8	x	1/4	=	11 Cft
	2	x	19 1/2	x	3/4	x	2	=	59 Cft
	2		21 5/8	x	1 1/8	x	1/4	=	12 Cft
	2	x	22 1/2	x	3/4	x	2	=	68 Cft
	1	x	12	x	1 1/8	x	1/2	=	7 Cft
	1	x	5	x	1 1/8	x	1/2	=	3 Cft
							Total	=	**550 Cft**

5 P/L DPC of cement concrete 1:2:4 using cement sand shingle i/c bitmen coating with one coat of bitument and single layer of polythene sheet 500 gauge. (1 1/2" thick)

	2	x	13 1/2	x	3/4			=	20 Sft
	2	x	12	x	3/4			=	18 Sft
	2	x	2 1/4	x	3/4			=	3 Sft
							Total	=	**41 Sft**
Deduction D1	1	x	5	x	3/4			=	4 Sft
							Total	=	**4 Sft**

Net Qty = 41 - 4 = **37 Sft**

6 Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge:- ii) Ratio 1:3 b) ¾ " thick (20 mm)

		2	x	12	x	1 1/2		=	36 Sft
		2	x	12	x	1 1/2		=	36 Sft
		2	x	3 3/4	x	1 1/2		=	11 Sft
							Total	=	**83 Sft**

7 Pacca brick work in cement sand in ground floor ratio 1:6

		2	x	13 1/2	x	1 1/8	x	11	=	334 Cft
		2	x	12	x	1 1/8	x	11	=	297 Cft
		2	x	1 7/8	x	1 1/8	x	8	=	31 Cft
		2	x	3 3/4	x	1 1/8	x	2	=	17 Cft
		2	x	12	x	1 1/8	x	2	=	54 Cft
		2	x	13 1/2	x	1 1/8	x	1 1/2	=	46 Cft
		2	x	16 1/2	x	1 1/8	x	1 1/2	=	56 Cft
								Total	=	**838 Cft**
D/d										
Door	D	1	x	5	x	3/4	x	8	=	30 Cft
	W	1	x	4	x	3/4	x	4	=	12 Cft
Lintle	D	1	x	6 1/2	x	3/4	x	3/4	=	4 Cft
	W	1	x	5	x	3/4	x	1/2	=	2 Cft
								Total	=	48 Cft
						Net =	838 -		48 =	**790 Cft**

8 RCC in roof slab, beams lintel girders and other structural members laid in situ or precost laid in position or prestressed members cost in situ etc complete in all respect ratio 1:2:4

Lintle	D	1	x	6 1/2	x	3/4	x	3/4	=	4 Cft
	W	1	x	5	x	3/4	x	1/2	=	2 Cft
Slab		1	x	16 1/2	x	22	x	3/8	=	136 Cft
		1	x	13 1/2	x	3/4	x	3/4	=	8 Cft
		2	x	4 1/2	x	3/4	x	3/4	=	5 Cft
		1	x	5 1/2	x	1 1/2	x	1/4	=	2 Cft
								Total	=	**157 Cft**

9 Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)

Plinth Beam	3	x	13 1/2	x	3/4	x	1	=	30 Cft
	2	x	12	x	3/4	x	1	=	18 Cft
	2	x	3 3/4	x	3/4	x	1	=	6 Cft
Plant Foundation	1	x	8	x	8	x	2 1/2	=	160 Cft
							Total	=	**214 Cft**

10 Fabrication of mild steel reinforcement for cement concrete l/c cutting bending, laying in position making joints & fastenings i/c cost of bending wire & labour charges for binding of steel reinforcement also includes removal of rust from bars (D. BARS)

i) same qty as per item No. 8								=	157 Cft
i) same qty as per item No. 9								=	214 Cft
							Total	=	**371 Cft**
	371	x	6 3/4	x	0.454			=	**1137 Kgs**

11 Single layer of tiles 9"x4 1/2"x4 1/2" laid over 4" earth & 1" mud plaster without bhoosa grouted with cement sand 1:3 on top of RCC roof slab provided with 34 lbs bitumen coating sand blinded i/c polythene sheet 500 gauge.

	1	x	12	x	16 1/2	=	198 Sft
					Total	=	**198 Sft**
D/d Top Khurras	2	x	2	x	2	=	8 Sft
					Total	=	**8 Sft**
				Net	= 198 -	8 =	190 Sft

12 Khurras on roof 2'x2'x6"

2		=	2 Nos.
	Total	=	**2 Nos.**

13 Providing, laying, cutting, jointing, testing and disinfecting P.V.C. blindpipe with 'B' Class working pressure pipe, in trenches, complete in all respects:- 4" dia

2 x 15	=	30 Rft	
	Total	=	**30 Rft**

14 P/F PVC Bend 4" dia

2	=	2 Nos.	
	Total	=	**2 Nos.**

15 P/F PVC Tee 4" dia

2	=	2 Nos.	
	Total	=	**2 Nos.**

16 1/2" thick cement plaster 1:3 with bitumen coating 10Lbs Sft and polythene sheet 500 gauge (bearing of slab)

	3	x	13 1/2	x	3/4	=	30 Sft
	2	x	12	x	3/4	=	18 Sft
	2	x	3 3/4	x	3/4	=	6 Sft
					Total	=	**54 Sft**

17 3/8" thick cement plaster under soffit of RCC roof slab ratio 1:3.

	1	x	12	x	12	=	144 Sft
	1	x	12	x	3 3/4	=	45 Sft
	2	x	22	x	2	=	88 Sft
	2	x	12	x	2	=	48 Sft
					Total	=	**325 Sft**

18 1/2" thick cement plasters 1:4 upto 20' hight

	1	x	2	x(	12	+	12	)x	10 1/2	=	504 Sft
	1	x	2	x(	12	+	3 3/4	)x	10 1/2	=	331 Sft
Parapet			2	x	18			x	2 1/4	=	81 Sft
			2	x	12			x	2 1/4	=	54 Sft
									Total	=	**970 Sft**
D/d D			1	x	5			x	7	=	35 Sft
									Total	=	**35 Sft**
								Net =	**970 -**	**35 =**	**935 Sft**

19 Cement Pointing deep struck using with out redoxide pigment (1:2) .

	2	x	13 1/2	x	13	=	351 Sft
	2	x	18	x	13	=	468 Sft
					Total	=	**819 Sft**
D/d W	1	x	4	x	4	=	16 Sft
	1	x	5 1/2	x	3/4	=	4 Sft
	1	x	12	x	10	=	120 Sft
	2	x	4 1/2	x	1	=	9 Sft
					Total	=	**149 Sft**
				Net =	**819 -**	**149 =**	**670 Sft**

20 Filling watering & ramming earth under floor with surplus earth from foundation etc

2/3 of item No. 1			2 /	3	x	1002		= 668 Cft
							Total	**= 668 Cft**

21 Filling watering & ramming earth under floor with new earth excavated from out side lead up to two miles.

	1	x	12	x	12	x	3 7/8		= 558 Cft
	1	x	12	x	3 3/4	x	3 7/8		= 174 Cft
Appren	2	x	24 1/2	x	3 1/4	x	1		= 159 Cft
	2	x	13 1/2	x	3 1/4	x	1		= 88 Cft
								Total	**= 979 Cft**
D/d Surplus earth									(-) **668 Cft**
								Total	**= 668 Cft**
								Net	**= 311 Cft**

22 S/F sand under floor or plugging in well.

	1	x	12	x	12	x	1/3		= 48 Cft
	1	x	12	x	3 3/4	x	1/3		= 15 Cft
Appren	2	x	24 1/2	x	3 1/4	x	1/4		= 40 Cft
	2	x	13 1/2	x	3 1/4	x	1/4		= 22 Cft
								Total	**= 125 Cft**

23 P/L Dry rammed brick or stone ballast 1-1/2" x 2" gauge with 25% sand mixed

Take Same Quantity As Per item No. = 125 Cft

Total = 125 Cft

24 Laying floor of approved coloured glazed tiles ¼ "(6 mm) thick, laid in white cement and pigment on a bed of ¾" (20 mm) thick cement mortar 1:2.

	1	x	12	x	12				= 144 Sft
	1	x	12	x	3 3/4				= 45 Sft
Door Cill	1	x	5	x	3/4				= 4 Sft
	1	x	10 1/2	x	3/4				= 8 Sft
	1	x	2 5/8	x	3/4				= 2 Sft
								Total	**= 203 Sft**

25 Coloured glazed tile dado (6"x6"¼") (6mm) thick in pigment over 1:2 cement, sand mortar /4" (20mm) thick, including finishing.

1	x	2	x(	12	+	12	)x	1/2		= 24 Sft
	1	x	13 1/2	x	11					= 149 Sft
	2	x	3/8	x	11					= 8 Sft
	2	x	1 1/2	x	1/2					= 2 Sft
									Total	**= 183 Sft**

26 Providing and laying conglomerate flooring (two coat work) with top layer of ½"(13mm) thick wearing surface, consisting of one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:- 2"(50 mm) thick

Appren	2	x	26	x	4			= 208 Sft
	2	x	13 1/2	x	4			= 108 Sft
							Total	**= 316 Sft**

27 P/F marbel strip of any shade for dividing the flooring into panels size 1 1/2" x 3/8".

60% of item no. 23 &24 (203 + 316) = 519

519 x 60 / 100 = 311 Rft

Total = 311 Rft

28 **P/F fixing steel dorr shutter made of angle iron frame 1-1/4"x1-1/4"x3/16" welded with 18 SWG M.S sheet alone with brasses 1"x1"x1/8" on back side and M.S flat 1-1/2"x1/8" on front side i/c locking arrangment and painting 3 coats complete i/c mild steel chowkat of doors, windows, C.windows etc. including holdfast, hinges,etc. complete made of M. S making and threading holes for angle iron 1-1/2"*1-1/2"*1/4" welded with M.S. flat 2"*1/4"three coats complete as approved and directed by the Engr. Incharge**

D	1	x	5	x	7	=	35 Sft
					Total	=	**35 Sft**

29 **Providing and fixing windows consisting of M.S. box section frame 2"x1½" (50x40mm), leaves frame 1-½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" 10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat andscrews I/C all C.P. fitting and painting 3 coats i/c M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame complete in all respect**

W	1	x	4	x	4	=	16 Sft
					Total	=	**16 Sft**

30 **Distempering 3 coats to new surfae**

Take same qty as per item No. 18

							935 Sft
					Total	=	**935 Sft**
Parapet	2	x	18	x	2 1/4	=	81 Sft
	2	x	12	x	2 1/4	=	54 Sft
					Total	=	**135 Sft**
					Net	=	**800 Sft**

31 **White Washing 3 Coat on new surface**

Take same qty as per item No.

			325 Sft
		Total	= **325 Sft**

32 **Providing and applying weather shield paint of approvedquality on external surface of building including preparation of surface, application of primer 2nd coats complete in all respect:**

Take same qty as per item No.

			670 Sft
		Total	= **670 Sft**

33 **Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):- (f) Ratio 1: 2: 4**

	1	x	12	x	12	=	144 Sft
	1	x	12	x	3 3/4	=	45 Sft
						Total =	**189 Cft**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khushab

Executive Engineer
Buildings Division
Khushab

Electric Installation Prtion Water Filtration Room

Based On MRS 1st Bi Annual 2022 (1st Bi Annual 2022 to 30 June 2022)

1 *Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.*

i) 3/4" dia.

= 200 Rft
Total = 200 Rft
@ Rs: 69.40 P.Rft **Rs: 13880**

ii) 1" dia.

= 100 Rft
Total = 100 Rft
@ Rs: 80.45 P.Rft **Rs: 8045**

2 *Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/ wooden strip batten/wooden casing an capping/G.I wire/ trenches (rate for cables only):- a) 250/440 volts, PVC insulated:*

i) 3/0.029" size.

= 300 Rft
Total = 300 Rft
@ Rs: 20.95 P.Rft **Rs: 6285**

ii) ___do___ 7/0.029" size.

= 100 Rft
Total = 100 Rft
@ Rs: 33.00 P.Rft **Rs: 3300**

iii) ___do___ 7/0.044" size.

= 100 Rft
Total = 100 Rft
@ Rs: 60.60 P.Rft **Rs: 6060**

3 *S/E of PVC box with top plate PVC complete as approved by the Engineer Incharge. 1-3 Hole*

= 1 Nos.
Total = 1 Nos.
@ Rs: 550.00 Each **Rs: 550**

ii)---do---- 4 - 6 hole.

= 1 Nos.
Total = 1 Nos.
@ Rs: 450.00 Each **Rs: 450**

4 *P/F of switches 5 Amp Piano Type amp Hilife/ bush.*

= 10 Nos.
Total = 10 Nos.
@ Rs: 60.70 Each **Rs: 607**

5 *S/E of 3-pin 5-Amp: wall socket Hilife/ bush.*

= 2 Nos.
Total = 2 Nos.
@ Rs: 76.10 Each **Rs: 152**

6 *Supply and erection of button holder Hilfi/ bush.*

= 4 Nos.
Total = 4 Nos.
@ Rs: 45.35 Each **Rs: 181**

7 *S/E of Energy Saver 45 watts best quality i/c E.I. connection complete in all respect as approved by the Engineer Incharge.*

= 4 Nos.
Total = 4 Nos. N.S
@ Rs: 950.00 Each **Rs: 3800**

8 *Supply and erection of ceiling rose,*

= 1 Nos.
Total = 1 Nos.
@ Rs: 55.90 Each **Rs: 56**

9 *S/O Ceiling Fan 56" Sweep complete in all respect as approved by the Engineer Incharge.*

= 1 Nos.
Total = 1 Nos. N.S
@ Rs: 5500.00 Each **Rs: 5500**

10 *Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook,placed at the time of casting of slab.*

= 1 Nos.
Total = 1 Nos.
@ Rs: 57.15 Each **Rs: 57**

11 *Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.*

= 1 Nos.
Total = 1 Nos.
@ Rs: 384.35 Each **Rs: 384**

11 *P/F Electric Water Cooler (Fisher or Equivalent) 65 Gallon capacity i/c G.I ppe fitting electric connection etc. complete in all respect as approved by the Engineer clncharge.*

= 2 Nos.
Total = 2 Nos.
@ Rs: 82000.00 Each **Rs: 164000**

Total Rs: 213308

Say Rs: 213300

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khushab

Executive Engineer
Buildings Division
Khushab

Sanitary Installation Portion Water Filtration Plant Room

Based On MRS 1st Bi Annual 2022 (1st Bi Annual 2022 to 30 June 2022)

1 *P/L Cutting jointing testing disinfecting PPRC line complete in all respect as approved by the Engineer Incharge. (i). 25mm i/d*
PN25

= *600 Rft*
@ *Rs: 60.90 P/Rft* ***Rs: 36540***

= *400 Rft*
@ *Rs: 99.25 P/Rft* ***Rs: 39700***

(iii). 40 mm i/d

= *200 Rft*
@ *Rs: 154.25 P/Rft* ***Rs: 30850***

2 *(G) P/F PPRC specials (a).PPRC Socket*
(i). 25mm i/d

= *12 Nos.*
@ *Rs: 46.60 Each* ***Rs: 559***

(ii). 32mm"

= *6 Nos.*
@ *Rs: 75.20 Each* ***Rs: 451***

(iii). 40mm"

= *6 Nos.*
@ *Rs: 103.60 Each* ***Rs: 622***

3 *P/F PPRC specials (b).PPRC elbow*

(i). 25mm i/d

= *12 Nos.*
@ *Rs: 53.55 Each* ***Rs: 643***

(ii). 32mm"

= *8 Nos.*
@ *Rs: 85.80 Each* ***Rs: 686***

(iii). 40mm"

= *6 Nos.*
@ *Rs: 129.30 Each* ***Rs: 776***

4 *D) P/F PPRC specials (i).PPRC reducing tee (i) 32x25mmX20mm*

(i). 25mm i/d

= *6 Nos.*
@ *Rs: 91.00 Each* ***Rs: 546***

(ii). 40X32X40mm id

= *4 Nos.*
@ *Rs: 102.00 Each* ***Rs: 408***

4 *E) P/F PPRC Reducing elbow (25x20mm*

= *10 Nos.* ***N.s***
@ *Rs: 95.00 Each* ***Rs: 950***

(ii). 32x25mm

= *8 Nos.* ***N.s***
@ *Rs: 102.00 Each* ***Rs: 816***

(ii). 32mm

= *12 Nos.* ***N.s***
@ *Rs: 64.00 Each* ***Rs: 768***

(iii). 40mm

= *6 Nos.* ***N.s***
@ *Rs: 79.00 Each* ***Rs: 474***

(G) P/F PPRC Union female 25x1/2" made Dadex complete

= *12 Nos.* ***N.s***
@ *Rs: 537.00 Each* ***Rs: 6444***

	(ii). 32x3/4"				
			=	*6 Nos.*	
		@ *Rs:*	*639.00 Each*		***Rs: 3834***
3	*UPVC Pipe 110 mm dia.*				
			=	*100 Rft*	
		@ *Rs:*	*679.15 P/Rft*		***Rs: 67915***
ii	*UPVC Pipe 75 mm dia.*				
			=	*50 Rft*	
		@ *Rs:*	*145.75 P/Rft*		***Rs: 7288***
B	*UPVC vent cowel 75 mm dia.*				
			=	*4 No*	
		@ *Rs:*	*249.30 P/Rft*		***Rs: 997***
C	*UPVC Nikasi socket 110 mm dia.*				
			=	*3 No*	
		@ *Rs:*	*204.75 P/Rft*		***Rs: 614***
D	*socket 82 mm dia.*				
			=	*3 No*	
		@ *Rs:*	*136.00 P/Rft*		***Rs: 408***
4	*Providing and fitting floor trap.4"X2" dia.*				
			=	*2 Nos.*	
		@ *Rs:*	*538.40 Each*		***Rs: 1077***
5	*Providing and fitting gully trap i.c cement concrete cost of pvc grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").*				
			=	*1 Nos.*	
		@ *Rs:*	*913.95 Each*		***Rs: 914***
				Total Rs:	***204280***
				Say Rs:	***204300***

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khushab

Executive Engineer
Buildings Division
Khushab

STREET LIGHT

Based On MRS 1st Bi-Annual (1st July 2022 to 30 June 2022 Plain Area)

1. Excavation in foundation of building, bridges and other structures, i/c dagbelling, dressing, refiling around structure with excavated earth, watering and ramming lead upto one chain (30m) and lif upto 5 ft (1.5m) (in ordinary soil)

1	x	600	x	1 1/2	x	2 1/2	=	2250	Cft			
3	x	100	x	1 1/2	x	2 1/2	=	1125	Cft			
2	x	500	x	1 1/2	x	2 1/2	=	1875	Cft			
						Total	=	5250	Cft			
									@	8727.85	%0Cft	45821 /-

2. S/E of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:- 2"dia.

1	x	800					=	800	Cft			
1	x	(3x100) + (200)+(600)					=	1600	Cft			
						Total	=	2400	Rft			
									@	157.45	P Rft	377880 /-

3. Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- twin core 7/0.064"

=	8000	Rft			
		@	245.65	Each	1965200 /-

4. P/F ELECTRIC POLE LIGHTS CONSISTING OF 4"DIA G.I PIPE 10' LONG, 3" DIA G.I. PIPE 10' LONG & 2"DIA PIPE 4' LONG WITH M.S BASE PLATE 1/2"THICK & 1'x1' SIZE I/C NUT BOLTS PCC FOUNDATION I/C HOLDFAST ETC. COMPLETE IN ALL RESPECTS AS APPROVED BY THE ENGINEER INCHARGE

=	20	No.			
		@	35000.00	Each	700000 /-

5. Earthing of Aluminum switch etc. with G.I wire No.8-SWG in G.I pipe 1/2" dia recessed on surface wall and floor complete with 1.5 meter long G.I pipe with reducing socket 4 to 5 meter below to Ground level and 2 meter away from building plinth.

=	1	No.			
		@	7112.95	Each	7113 /-

Total = 3096014 /-

Say Rs = 3096000 /-

Sub Divisional Officer
Buildings Sub Division
Khushab / Noorpur Thal

Old Material

Based on MRS 1st Bi Annual 2022 (1st January 2022 to 30 June 2022)

1 Cost of 2nd Un Serviceable Bricks.

2477	x	x	1350 / 100	x	60 / 100	=	20064	Nos
						=	0	Nos
			Total			=	**20064**	Nos
			20064		**@**	=	**4000**	‰Nos

80256

2 Cost of Un Serviceable Bricks Bats.

2477	x	x	40 / 100	x		=	991	Nos
						=	-	Nos
			Total			=	**991**	Nos
			991		**@**	=	**1500**	%Cft

14865

Total **95121**

Sub Engineer

Sub Divisional Officer,
Buildings Sub Division
Khushab

8. ANNUAL OPERATING COST (POST COMPLETION)

Financial Components: Revenue
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):N/A
Grant Number: Development - (PC22036)
LO NO:N/A
A/C To be Credited: Assan Assignment

PKR Million

Sr #	Object Code	2025-2026		2026-2027		2027-2028		2028-2029		2029-2030	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A05270**-To Others	15.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**15.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

8. ANNUAL OPERATING AND MAINTENANCE COST AFTER COMPLETION OF THE PROJECT

The Annual operating and maintenance cost after completion of the Project is Rs.15.000 million. The same may be borne by the District Health Authority of the concern District as well as Primary and secondary healthcare Department, Lahore.

9. DEMAND AND SUPPLY ANALYSIS

No modern health facilities and scientific diagnostics are presently available in this Hospital. This initiative of revamping Hospital covers all departments and components of healthcare including Medical, Surgical, psychiatric, Cardiac, ENT, Ophthalmic and Pediatrician components. Moreover, women health components i.e. Gymea and obstetric will also be emphasized upon. In emergency, calamities and natural disasters, valuable lives will be saved through revamping of Emergency Units.

10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION

10.2 FINANCIAL PLAN DEBT INFORMATION

undefined

10.3 FINANCIAL PLAN GRANT INFORMATION

Attached

10. FINANCIAL PLAN AND MODE OF FINANCING

The project will be executed / financed through Annual Development Program under the Primary and Secondary Healthcare Department, the Government of Punjab.

Revenue Side:

(Rs.in Million)

	FY 2021-22	FY 2022-23
Funds Released	**9.780**	**12.445**
Utilization	**8.487**	**2.396**

Capital Side:

	FY 2021-22	FY 2022-23
Funds Released	**33.905**	**11.269**
Utilization	**33.905**	**0.000**

Balance funds may be provided for completion of the project in subsequent years through ADP

10.4 WEIGHT COST OF CAPITAL INFORMATION

undefined

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

SOCIAL BENEFITS WITH INDICATORS

Social economic burden will be decreased due to availability of better medical services in the district. Time and money of community will be saved which were expended in other cities like Lahore Islamabad etc. on treatment of patients and for boarding and logging of attendants. The social status of community will rise.

SOCIAL IMPACT:

A number of patients lose their lives or suffer serious disabilities for want of timely access to the health facilities. The project will ensure that no one is left to reach the health facilities. The most important beneficiaries will be mothers having complicated delivery conditions. The number of patients transferred to the health facilities for treatment and lifesaving will serve as indicators for performance evaluation. In long term the project will help in improving socio-economic indicators of IMR and MMR.

11.2 ENVIRONMENTAL IMPACT ANALYSIS

It will have no hazardous effect on the environment. On the other hand, addition of horticulture and landscaping will provide healthy environment to the general public. All the more, the program is environment friendly having no adverse environmental effects. Simultaneously, this shall further improve environment by creating sense of responsibility among employed and beneficiaries of the service.

11.3 PACT ANALYSIS

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11.4 ECONOMIC ANALYSIS

EMPLOYMENT GENERATION (DIRECTOR AND INDIRECT)

Revamping of this Hospital will lead to generation of employment for highly skilled /professional staff and unskilled staff leading to reduction of unemployment. Huge employments opportunity will be created from the establishment of the project. The Medical doctors and paramedics who are trained in this discipline or intended to specialize in this field can make maximum use of training. A large number of gazetted and non-gazetted posts will be available for employment directly or indirectly.

IMPACT OF DELAYS ON PROJECT COST AND VIABILITY

Delay in the implementation of the project will lead to increase in cost and increase financial burden on the Government and general population of Punjab. Since the project is one of the major needs and a long awaited desire of the community, therefore, Government of the Punjab contemplated plan for early execution of Revamping of Emergency Units. The delay will not only deprive the patients of the state of the art facility but also distort the public image of the Government.

11.5 FINANCIAL ANALYSIS

FINANCIAL BENEFITS & ANALYSIS

Tremendous public benefits will be accrued from revamping of Emergency Units:

The Targets of Sustainable Development Goals (SDGs) will be achieved
The Human Development Index of Pakistan (HDI) will improve
Infant Mortality Rate will decrease
Mother Mortality rate will be decreased
The international commitments of Pakistan will be accomplished
Health standard of public will
Better Health Facilities to mother and
Prompt and scientific facility for operation
Rehabilitation of disables and injured
Blindness in this area will be decreased and controlled
Better social and mental health to addict
Provision of better health facilities at doorsteps
Awareness and control for communicable
Survival of heart failure
Social indicators of Pakistan will improve

This will decrease load of patients on teaching hospitals and specialized institutions by promoting physical and mental health. By adopting preventive and Hygienic principles, the number of patients and diseases will decrease. Resultantly budget load of Government for treatment will decrease and saving will be utilized for development programs.

11.1.1 FINANCIAL IMPACT:

In the beginning, the It is extremely difficult to put a money value on each life saved by taking/shifting a critically ill patient to the appropriate health facility for treatment. However, the exact amount spent shall be calculated against each patient shifted by analyzing data collected during operations.

11.2 REVENUE GENERATION

Revenue will be generated from:

Laboratory fees
Diagnostic facility fees
X-Ray fee
Dental fee
ECG fee
Private room charges
Parking fee
Medico Legal Fee
Medical Certificate of New Government Employees

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

Starting date: 01-07-2021

Expected Completion date: 30-06-2025

12.2 RESULT BASED MONITORING (RBM) INDICATORS

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12.3 IMPLEMENTATION PLAN

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12.4 M&E PLAN

The operation team will monitor the progress of the project and will hold regular weekly meeting to review the progress under the supervision of Project Director.

12.5 RISK MITIGATION PLAN

Attached

RISK REGISTER

Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab

RISK DATA				Pre-Mitigation / Current Qualitative Assessment			MITIGATION
Risk Item No	Risk Description/Event	Cause	Effect / Consequences	Likelihood (1 to 3)	Impact (1 to 3)	Risk Score (1 to 9)	Mitigation / Actions
1	Due date for the completion of some hospital sites may be extended due to increase in scope from the Client	Direct instructions from the Medical Superintendents / Hospital Administration to revamp the remaining areas	Significant scope increase requested by the Hospital administration will result in: 1. Project delays 2. Contractor claims 3. Increase in project cost along with variations	3	3	9	Hospital administration is requested to finalize the scope during joint field visits of C&W and PMU
2	Various unexpected structural issues are being encountered	Unforeseen structural issues are expected to face during execution in hospital buildings approaching end of life	1. Stoppage of work 2. Performance of the Contractor has affected 3. Delays in the project	3	3	9	Various items which are unforeseen and expected to be used during execution may be taken in estimates so that those can be executed to address these issues
3	Change in management of the Client	Management change	Re-briefing is to be carried out	2	2	4	Acceleration of understanding for smooth and expeditious transition, without affecting the project
4	Financial Issues	Funds for these schemes should be provided as per the targets	1) Delay in tendering 2) Effect on quality as the Consultant supervision will not take place 3) Inconvenience to the patients	3	3	9	Approval of PCIs and early release of funds is requested
5	Nationwide spread of pandemic i.e. COVID-19 in 2nd and 3rd quarter of this year	Work delays during nationwide lockdown.	1) Delays in completion of works 2) Claim requests received by Contractor and Consultant	3	3	9	Contractor will be asked to depute fully vaccinated labor

12.6 PROCUREMENT PLAN

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13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

The Organogram of New Management Structure is available in PC-I

14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

NA

15. CERTIFICATE

Focal Person Name: **Designation:**
Email: **Tel. No.:**
Fax No:
Address:31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

15. It is certified that the project titled "**Balance work of Revamping of DHQ, Khushab (1st Revised)**" has been prepared on the basis of instruction provided by the Planning Commission for the preparation of PC-I for Social Sector projects.

Prepared By:

(HISSAN ANEES)
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PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

(HAMZA NASEEM)
PROJECT MANAGER CIVIL, PMU,
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

Checked By:

(Dr. AYESHA PARVEZ)
DEPPUTY PROJECT DIRECTOR (PMU),
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

(KHIZAR HAYAT)
PROJECT DIRECTOR (PMU),
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

Approved By:

(DR. IRSHAD AHMAD)
SECRETARY,
GOVERNMENT OF THE PUNJAB
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT, LAHORE
(042-99204567)
(Oct-2022)

17. RELATION WITH OTHER PROJECTS

20. MARGINALISATION OF PC-1

SR.NO.	CRITERIA	YES/NO	COMMENTS
Description & Objectives			
1	does the pc-i specify link/alignment with punjab growth strategy, punjab spatial strategy (if relevant) & sustainable development goals?	NO	
2	do project objectives/justification include focus on marginalised groups (women, pwds, minorities, transgender, poor etc.)?	NO	
Use of Gender Disaggregated Data			
1	has gender disaggregated data been used to determine need for the project? if yes, identity the source. if not, what additions/observations have been made to strengthen the pc-i?	NO	
2	was gender disaggregated data used to identify potetialimpact of the project on selected beneficiaries?	NO	
Social Impact			
1a	have marginalised groups been included as beneficiaries of the project?	NO	
1b	if yes, does the pc-1 specify a specific quota/percentage for the marginalised (women, peds, etc.)?	NO	
2	does the pc-1 include specific provisions for capacity building / training of women (if applicable)?	NO	
Results Based Monitoring			
1a	does the pc-i include a results based monitoring framework (rbmf)/logical framework?	NO	
1b	if yes, does the framework include measurable targets relating to impact on marginalised groups?	NO	
2	were sdg indicators used for determining targets included in the pc-i?	NO	
3	was gender disaggregated data used to establish baseline and develop quantifiable targets/key indicators?	NO	
4	if yes, identify the source/refresh institute(s)?	NO	
Inculsion/Participation			
1	was female representation ensured in planning and adp formulization?	NO	
2a	was stakeholder consultation held during adp formulization and/or pc-idevelopment?	NO	
2b	if yes, did the consultation include experts and representatives of marginalised groups and csos?	NO	

3	was participation of representatives of marginalised groups ensured in pc-1 rist assessment planning?	NO	
Monitoring & Evaluation			
1	does the project provide a role to communities in project monitoring and/or implementation (if relevant)?	NO	
2a	does the project include formation of a steering committee and/or project implementation committiees?	NO	
2b	if yes, is there a provision to ensure representation of women in these committees?	NO	