PC-1

Balance Work of DHQ Hospital Khanewal

ORIGINAL APPROVED COST	**PKR Million. 75.263/-**
1st REVISED PROPOSED COST	**PKR Million. 105.310/-**
ORIGINAL APPROVED GESTATION	**24 Months** **Till June 2023**
1st REVISED PROPOSED GESTATION	**67 Months** **Till June 2025**
APPROVAL FORUM	**DDSC (DDSC)**

1. NAME OF THE PROJECT

Balance Work of DHQ Hospital Khanewal

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. KHANEWAL

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	**Proposed Allocation:**0.000
3	**GS No:**5348
4	**Total Allocation:**0.000
5	**Funds Diverted:**0.000
6	**Balance Funds:**0.000
7	**Comments:** The scheme will be financed out of block scheme included in ADP 2022-23 at G.S. No. 660 with an allocation of Rs.1300 million Provision of Rs.1300 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 Attock:	79,758 SFT
Area completed:	53,261 SFT
Area Not taken up:	26,497 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 wards 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.

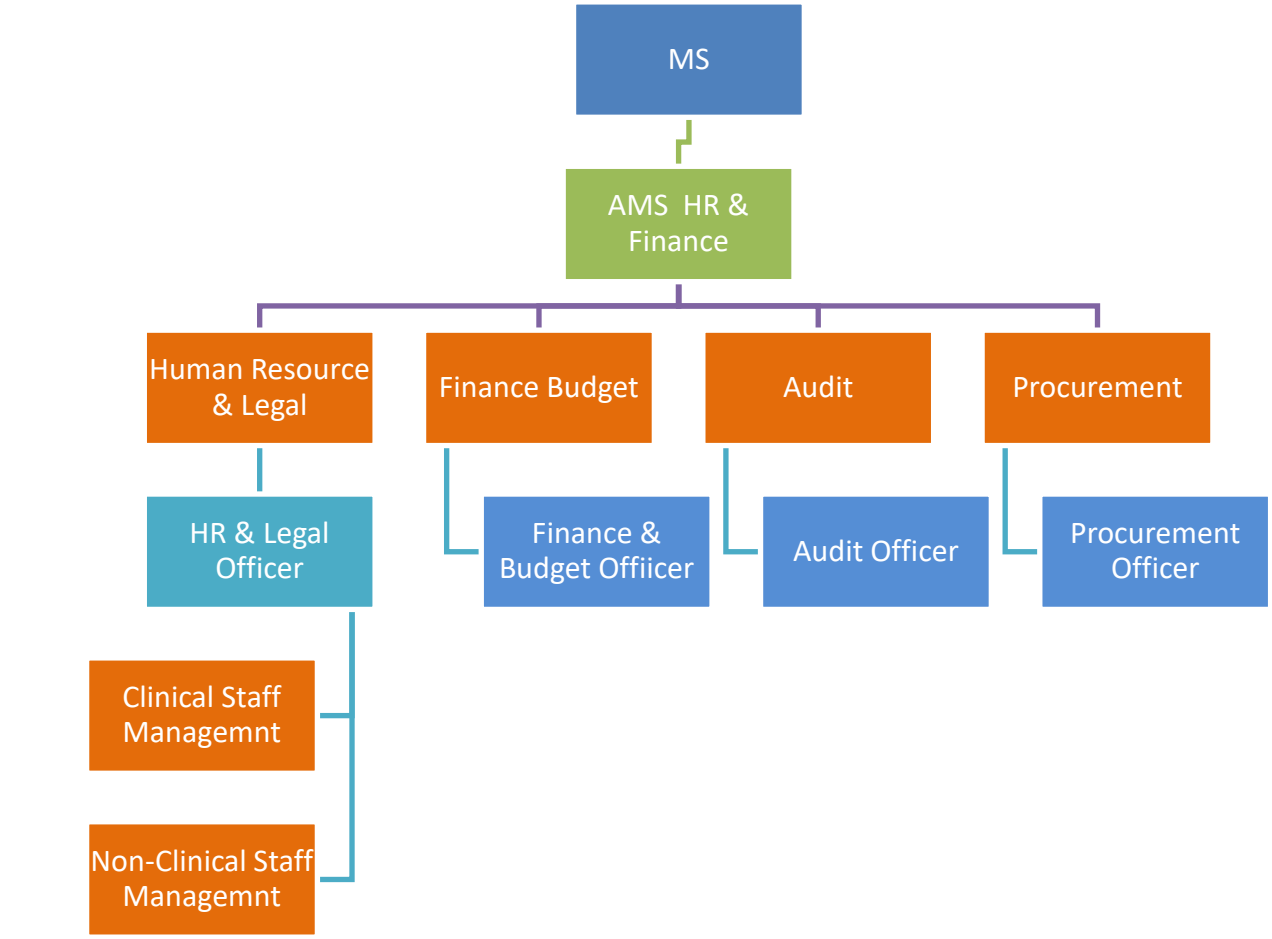
5.7.4 EMR and Networking

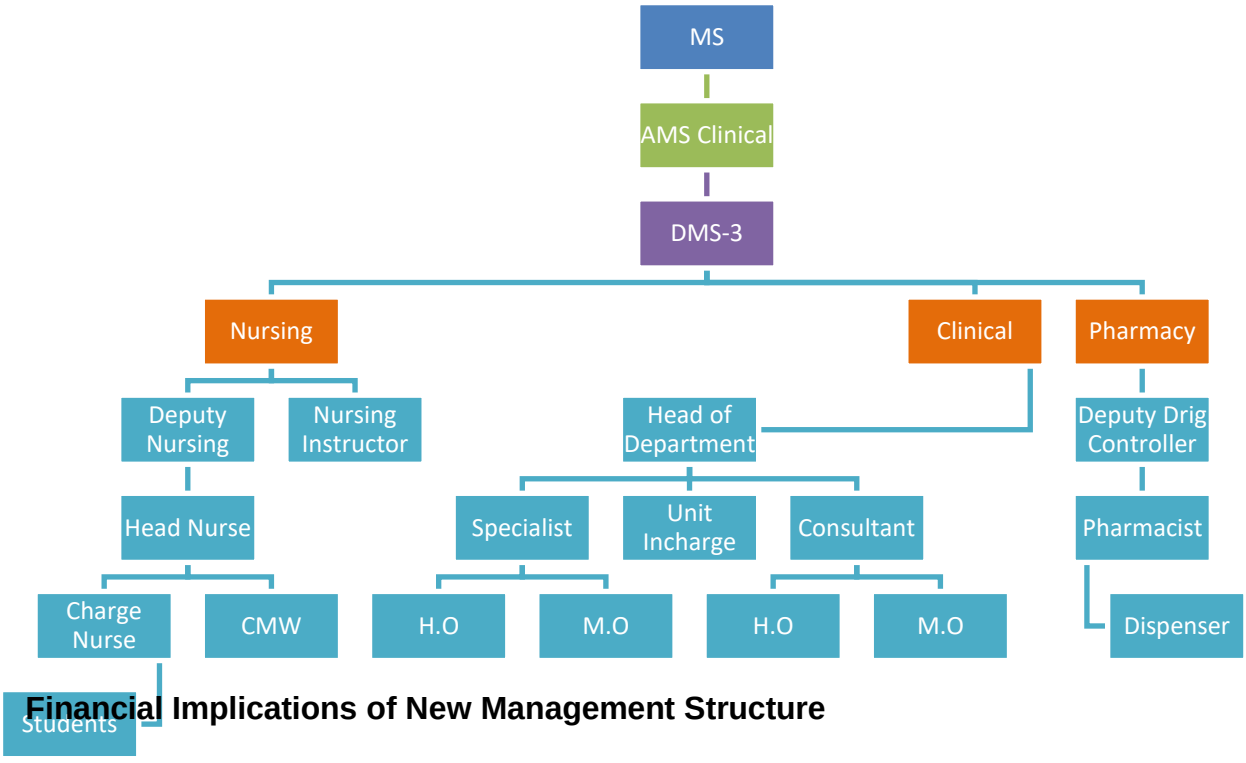
Establishment of network infrastructure, establishing a central data center, connectivity of different building through fiber, are also the major components of the revamping project in terms of ICT. This will including provision of networking point at all nursing stations and important areas where entries 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	138,000	1,656,000
HUMAN RESOURCE OFFICER	1	80,000	960,000	138,000	1,656,000
IT/STATISTICAL OFFICER	1	80,000	960,000	138,000	1,656,000
FINANCE & BUDGET OFFICER	1	80,000	960,000	138,000	1,656,000
AUDIT OFFICER	1	80,000	960,000	138,000	1,656,000
PROCUREMENT OFFICER	1	80,000	960,000	138,000	1,656,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	840,000	228,000	2,736,000
BIOMEDICAL ENGINEER	1	80,000	960,000	138,000	1,656,000

QUALITY ASSURANCE OFFICER	1	80,000	960,000	138,000	1,656,000
LOGISTICS OFFICER	1	80,000	960,000	138,000	1,656,000
ASSISTANT ADMIN OFFICER	4	50,000	1,200,000	364,000	4,368,000
	17	805,000	**10,680,000**	**1,834,000**	**22,008,000**

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

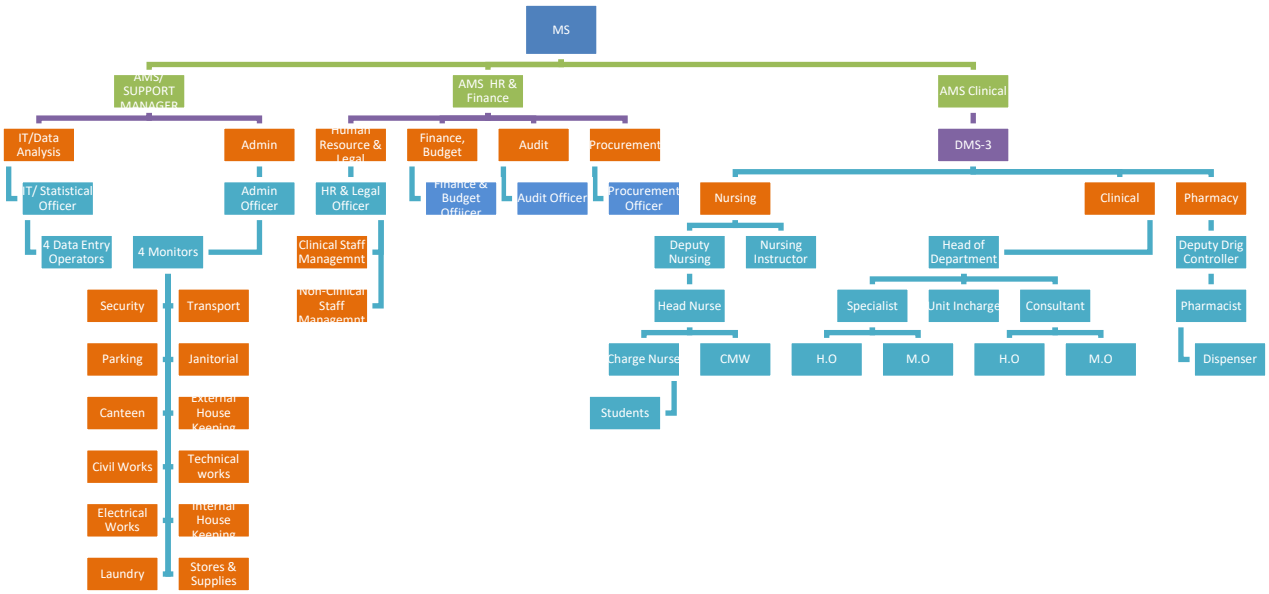
1. M.Sc. Supply Chain Management/ MBA or Equivalent.
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

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 Posts	Monthly Salary (PKR)	Annual Impact (PKPR)
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
DATA ENTRY OPERAOTOR (DEO)	4	105,000	1,260,000
BIOMEDICAL ENGINEER	1	105,000	1,260,000
QUALITY ASSURANCE OFFICER	1	105,000	1,260,000
LOGISTICS OFFICER	1	44,000	2,112,000
ASSISTANT ADMIN OFFICER	4	70,000	3,360,000
GRAND TOTAL	**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 Khanewal is more than 3.34 million. The area of the DHQ Hospital Khanewal is 1037086 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.

JUSTIFICATION FOR REVISION OF PC-I

1. 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. Infrastructure team has conducted the Joint visits with the team of C&W Department. During the field visits, few alterations were recommended by the technical teams which have been incorporated in the Revised Rough Cost Estimates of the subject scheme and have been attached with the PC-I along with comparative statement. Therefore, Civil works component cost has been decreased from Rs. 49.823 million to Rs. 48.938 million due to few changes in the scope and MRS rates (2nd Bi-annual 2022).

2. 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.

3. 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.

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 Sector projects.

7. CAPITAL COST ESTIMATES

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

Grant Number: Development - (PC22036)
LO NO:LO21010532
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	0.000	0.000	0.000	0.000	0.000	0.000
2	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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

Grant Number: Government Buildings - (PC12042)
LO NO:LO22010091
A/C To be Credited: Account-I

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	0.000	0.000	0.000	0.000	0.000	0.000
2	**A05270**-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

Abstract of Cost

Name of DHQ Hospital	Khanewal					
Scope of work	Orignal			1st Revised		
	Capital	Revenue	Total	Capital	Revenue	Total
Capital component						
Internal Development	29.456	0.000	29.456	44.090	0.000	44.090
External Development	17.459	0.000	17.459	4.848	0.000	4.848
Water filtration plant	2.908	0.000	2.908	0.000	0.000	0.000
Total Capital Component	**49.823**	**0.000**	**49.823**	**48.938**	**0.000**	**48.938**
Revenue component						
Human resource (HR) plan	0.000	**25.440**	25.440	0.000	56.372	**56.372**
Total Revenue component	**0.000**	**25.440**	**25.440**	**0.000**	**56.372**	**56.372**
Grand Total	**49.823**	**25.440**	**75.263**	**48.938**	**56.372**	**105.310**

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**			**1,059,000**	**1,401,000**	**43,431,000**
				25.440					**43.431**
Utilization of HR Component				**12.941**					
									56.372

Abstract of Cost

Name of DHQ Hospital	Khanewal					
Scope of work	**Orignal**			**1st Revised**		
	Capital	**Revenue**	**Total**	**Capital**	**Revenue**	**Total**
Capital component						
Internal Development	29.456	0.000	29.456	44.090	0.000	44.090
External Development	17.459	0.000	17.459	4.848	0.000	4.848
Water filtration plant	2.908	0.000	2.908	0.000	0.000	0.000
Total Capital Component	**49.823**	**0.000**	**49.823**	**48.938**	**0.000**	**48.938**
Revenue component						
Human resource (HR) plan	0.000	**25.440**	25.440	0.000	56.372	**56.372**
Total Revenue component	**0.000**	**25.440**	**25.440**	**0.000**	**56.372**	**56.372**
Grand Total	**49.823**	**25.440**	**75.263**	**48.938**	**56.372**	**105.310**

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**			**1,059,000**	**1,401,000**	**43,431,000**
				25.440					**43.431**
Utilization of HR Component				**12.941**					
									56.372

REG

80

☎ 061-9200384-5

OFFICE OF THE SUPERINTENDING ENGINEER
BUILDINGS CIRCLE MULTAN.

To

The Director Infrastructure,
Project Management Unit,
Primary & Secondary HealthCare Department,
Lahore.

No. 2168 /DB Dated 18 / 08 /2022.

Subject: **ROUGH COST ESTIMATE FOR THE SCHEME "RENOVATION / REVAMPING OF DISTRICT HEAD QUARTER HOSPITAL AT KHANEWAL ADP NO.658/2022-23".**

The Rough Cost Estimate dully vetted for amounting to **Rs.48.938 (M)** for the work cited as subject Prepared on the basis of Plinth Area Rates / MRS 2nd Bi-Annual 2022 (District Khanewal) for arranging Administrative Approval and funds from the competent forum please.

DA/ Estimate

Superintending Engineer
Buildings Circle M u l t a n

Endst: No. 2169 **/DB** **Dated** / /2022.

A copy is forwarded for information to the:

1. Executive Engineer, Buildings Division Khanewal with reference to his letter No. 1061/DB dated:10-08-2022.

DA/Nil:

RECEIVED
Diary No. 9395
Date: 24-08-22
PMU, P & SH

Deputy PD	
F & A	
Procurement	
Infrastructure	✓
Planning & HR	
IT	
Operations C/N/S	
H[illegible] Specialist	
[illegible] RC	
[illegible]	

Superintending Engineer
Buildings Circle M u l t a n

GOVERNMENT OF THE PUNJAB

BUILDINGS DIVISION KHANEWAL

ROUGH COST ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL.

ESTIMATED COST: Rs: 48.938 (M)

BUILDINGS SUB DIVISION KHANEWAL

ROUGH COST ESTIMATE FRAMED IN THE OFFICE OF THE EXECUTIVE ENGINEER BUILDINGS DIVISION, KH ANEWAL FOR THE WORK " IMPROVEMENT / REHABILITATION OF DISTRICT HEAD QUARTER HOSPITAL AT KHANEWAL .2022-23

Reference. As per meeting agenda of Project Management Unit P&S Health Care Department Government of the Punjab Lahore Dated.18-07-2022.

HISTORY:

The Government of the Punjab is taking venous measures to improve healthcare facilities for the people of the Punjab at primary. Secondary and Treasury Level Therefore in order to improve infrastructure at Secondary level District Head Quarter Hospital, a scheme Titled Programme for Revamping of all DHQ Hospitals in Punjab (ADP No.658/2022-23) was introduced in the Annual Development Program 2022-23. One of the Hospitals in this programme is the District Head Quarter Hospital (DHQ)Khanewal.

In order to decide the scope of work for the Revamping and Renovation of DHQ Hospital Khanewal, a kick-off meeting was held at DHQ Hospital Khanewal. Which was attended by the concerned officials from PMU P&S Health Department, concerned officials of Buildings Department of C&WD and Admin officer of DHQ Hospital Khanewal. During the meeting It came forth that a portion of the Hospital has already been revamped by the IDAP, In such case, the written approval would be given by PMU Ultimately. A detailed scope of work, for the non-revamped areas, was decided documented and communicated to Buildings Department officials, (Minute of the meeting attached herewith)

Keeping in view the detailed scope of work identified by the P&SHD PMU Rough cost estimate amounting to **Rs.48.938 (M)** is prepared on MRS/Plinth Area Rates for 2nd BI-Annual 2022 is submitted herewith for vetting and onward submission for the grant of Administrative Approval from the relevant Competent Authority.

DESIGN & SCOPE OF WORK:

The following provisions have been made in the estimate (**adopted as Per desired / direction of meeting agenda PMU**) which is as under:- (copy of meeting agenda of PMU attached)

1. Revamping of Main Building.
2. Reception Counter
3. Revamping of Trauma Center.
4. Provision of PCC Track
5. Improvement of Sewerage System.

SPECIFICTION:

The work shall be carried out according to P.W.D. specification through approved contractor after calling competitive tender as per satisfaction of the Engineer Incharge.

RATE:

The rate provided in this estimate as per MRS rates as standardized by the Finance Department Punjab Lahore for 2nd BI-annual 2022

COST:

Total cost of estimate comes to Rs. amounting to **Rs.48.938 (M)**

TIME:

It will take about 18 month to complete the work from the actual date of commencement.

Jawad

Sub Divisional Officer
Buildings Sub Division Khanewal.

Executive Engineer
Buildings Division ,Khanewal

MINUTES OF MEETING

Communication & Works Department

Meeting Title/Project: Kick-off Meeting DHQ Khanewalwith PMU Team

Date: 18/07/2022 **Time:** 10:00

Location: DHQ Hospital Khanewal

ATTENDEES

NAME	Designation
Mr. Hamza Naseem	Project Manager (Civil), PMU
Mr. Saad Zulfiqar	Consultant (Electrical), PMU
Mr. Majid Hameed Chugtai	Executive Engineer Building Department Khanewal.
Mr. Javed	Sub-Divisional Officer (building), C&W

MINUTES

Sr #	AGENDA ITEM	Remarks
1	**Meeting Agenda:** 1. Introduction of Teams 2. Generalized Site Decisions 3. Specified Instructions Area-wise 4. Priority of work	
2	***1. Introduction:*** Mr. Hamza Naseem, Project Manager Civil, led the kick-off meeting for DHQ Khanewal. He introduced his team to C&W and Hospital staff. Mr. Majid Hammed, Executive Engineer C&W, introduced the teams to PMU Health Department and brief the purpose of Visit. He also informed the Representative of C & W that any civil or electrical work in already revamped areas should not be executed. In case if any such work is required to be done in already revamped area by IDAP, it must be carried out after written approval from PMU.	
3	***2. Generalized Site Decision:*** **2.1 Internal Development(To be Executed in Unrevamped Areas)** **a. Flooring and Skirting/Dado** Flooring and dado should be fixed in areas where existing tiles are damaged/ broken. **b. Paint** Paint work should be done in all areas and on all doors (exceptions are mentioned in following points) **c. Windows** All damaged windows should be replaced/repaired **d. Doors** All damaged doors should be replaced/repaired or existing wooden doors should be repainted. **e. UPVC doors** All washrooms (used for patient/attendants) should be replaced with UPVC doors.	

	f. Seepage Mitigation All the areas facing seepage issues need to be assessed to locate the seepage source and necessary action may be taken accordingly. **g. Water Proofing** Water Proofing on entire Hospital Clinical building and cleaning all blockages of storm water lines. Water proofing of brick tiles should be proposed to avoid extra load on Hospital Building for its structural stability. **2.2 External Development** **a. Sewerage System** C&W to assess the existing sewerage system and worked accordingly as per requirement. **b. Water Supply System** Assessment of existing water supply system and rectification required to be done as per Hospital Requirement. **c. Water supply system from Filtration Plant** Moreover, location for Water points/connection for drinking water in hospital building will be provide by hospital administration to C& W and water supply line will lay accordingly. **d. Roads** Existing Road conditions need to be re-assessed prior starting execution.	
4	***3. Specified Instructions Area-wise*** The following general decision were taken for DHQ Khanewal **3.1 Internal Development** **a. OPDBlock** • Antiskid tiles to be fixed on ramp at entrance with SS railing on it. • Full body porcelain tiles to be fixed on Podium. • Marble to be fixed on steps at Entrance. • In Entrance Hall where red tiles exist at present needs to be replaced with full body porcelain tiles and wall/dado full body porcelain tiles up to height of 6 ft. • Collapsible door at entrance needs to be replaced with Aluminum door half solid and half glass. • In main corridor all floor tiles need to be replaced with full body porcelain tiles all wall/dado tiles need to be retained. • Reception counters to be made as per C&W standards. • Wooden Hoarding/Partition done needs to be removed. **b. Gyane Block** • Ramp leading to first floor Antiskid tiles need to be fixed with railing to be retained and only needs to be repainted. • Stairs leading to First floor marble needs to be fixed on steps with railing to be retained and only needs to be repainted. • All floor and wall/dado tiles to be retained in Reception area. Only Main corridor floor and wall/dado tiles need to be replaced with full body porcelain tiles as per C&W standards.	

	Aluminum doors half solid and half glass. • All floor and wall/dado tiles up to height of 6 ft. full body porcelain needs to be fixed in Eye block corridor, wards and full body porcelain tiles inside rooms with 6" skirting. • Two washrooms in eye department to be revamped completely along with the replacement of existing doors with UPVC doors. **3.2 External Development** a. External sewerage of the Clinical Hospital building is functional only sludge removal/ cleaning needs to be done. b. Weather shield on east west and front side of main Hospital Building. c. All Existing MS windows at front elevation of Hospital to be replaced with Aluminum windows as per the standards followed by IDAP. d. 5 ft. wide PCC track with Kurb stones at it sides other than main roads crossing points need to be made along shoulders of roads for wheel chair stature movement for shifting patients from Trauma Center to Main Block and Gyane. e. Water Proofing/ Roof Treatment of entire old block. f. All Expansion joints to be treated from roof by making brick wall on sides and covering with slabs and properly sealing gaps between slabs.	
5	***4. Priority of work*** **4.1 Priority 1** **3.1 a, b ,c, d, e, f, g. 3.2 b, c, d, e, f.** **4.2 Priority 2** **Nil** **4.3 Priority 3** **Nil**	

ROUGH COST ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL.

Sr. No.	Description of item	Plinth area/ Quantity	(As per MRS/ Plinth Area Rates 2nd Bi-Annual 2022)					Unit	Amount	Remarks
			Rate	P.H	E.I	S.Gas	Total			
1	2	3	4	5	6	7	8	9	10	11
1	Renovation / Revamping of Main Building	1 Job.	37743900 ~~39214800~~	--	--	--	37743900 ~~39214800~~	P.Job	37743900 ~~39214800~~	Detail attached
2	Receiption Counter	5 Job	158900	--	--	--	158900	P.Job	794500	Detail Attached
3	Renovation / Revamping of Trauma Centre	1 Job	5551600	--	--	--	5551600	P.Job	5551600	Detail Attached
4	Provision of PCC Track	1 Job	346400	--	--	--	346400	P.Job	346400	Detail Attached
5	Provision External Sewerage System	1 Job	938000	--	--	--	938000	P.job	938000	Detail attached
6	Construction of Electric Pannel Room (17'4"x20'4") 349 Sft	349 Sft	3605	—	227	—	3832		1337368	"
	~~Add 10% Contingencies~~ ~~Extra Development~~ Add 10% External Development on Rs 1337368/=								46711768 133737 ~~46845300~~ 46845505	
	TOTAL RS:									
	D/d Cost of Old Material							(-)	238000	
	TOTAL RS:								~~46607300~~ 46607505	
	Add 5% PRA Tax								2330375 ~~2330365~~	
	G. TOTAL RS.								48937880/- ~~48937665~~	
	SAY RS.								48.938 (M)	

vetted for Rs. 48.938 (M)

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Superintending Engineer
Building Circle Multan

ROUGH COST ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL.

(ABSTRACT OF COST)

Sr. No.	Description of work	Amount	Remarks
1.	**Main Buildings DHQ Hospital**		
	a) Building Portion	~~30922000~~	
	b) Public Health Installation	1578~~3600~~ ~~1720300~~	
	c) Electric Installation	6184300 ~~5430300~~	
	TOTAL RS:	~~38072600~~ 36644600	
	Add 3% Contigency	1099338/- ~~1142178~~	
	TOTAL RS:	~~39214778~~ 37743938/-	
	SAY RS:	~~39214800~~ 37743900/-	

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

Detailed Estimate for Renovation / Improvement of District Headquarte Hospital at Khanewal

2nd Bi-Annual 2022

1 Removing door with chowkat

Collapcible gate	=	5 Nos.	
wooden door	=	7 ,,	
Lav.	=	20 ,,	
,,	=	4 ,,	
ward	=	2 ,,	
bath	=	9 ,,	
wc bath	=	4 ,,	
Ege Block Bath	=	~~3~~ ½	
Total	=	**~~54~~ Nos.**	23652/-
	@	438.00 Each	~~22338~~

2 Removing window sky light with chowkat

OPD	=	26 Nos.	
Out side front Cw	=	4 ,,	
Radiolegy Cw frist floor	=	3 ,,	
Ground Floor + Frist Floor	=	28 ,,	
	=	~~4 0~~ ,,	
Total	=	**65 ~~70~~ Nos.**	22198/-
	@	341.50 Each	~~23905~~

3 Dismantling brick or flagged flooring

	1	x 20	x 25	=	500 Sft
	1	x 18	x 35	=	630 ,,
	1	x 22	x 37	=	814 ,,
Total				=	**1944 Sft**
				@	863.50 %Sft 16786

4 Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 50 ft (15 metre).
Take qty.item No.3

1944	x	5/12	=	809 Cft
Total			=	**809 Cft**
			@	5587.30 %0Cf 4520

5 Dismantling glazed encaustic tiles

Stair step	2	x 22	x 4 1/2	x 1	=	198 Sft
Rise	2	x 25	x 4 1/2	x 1/2	=	113 ,,
Opp trad	2	x 22	x 4 1/2	x 1	=	198 ,,
Rise	2	x 25	x 4	x 1/2	=	100 ,,
Landing	2	x 2	x 4	x 4 1/4	=	68 ,,
East side Ent.step	3	x 27	x 1		=	81 ,,
	3	x 27	x 1/2		=	41 ,,
	5	x 20	x 1		=	100 ,,
	5	x 20	x 1/2		=	50 ,,
	1	x 11	x 12 1/2		=	138 ,,
G.F OPD tarrace	1	x 21 1/8	x 13		=	275 ,,
G.F Ent. Hall	1	x 22 1/4	x 39 1/4		=	873 ,,
waiting area	1	x 26 3/4	x 26 1/4		=	702 ,,
Ent. Plate form	1	x 27	x 12 1/8		=	327 ,,
waiting area	1	x 61 7/8	x 25 7/8		=	1601 ,,
	1	x 46 1/8	x 9 5/6		=	454 ,,
	2	x 17	x 9 3/4	x	=	332 ,,
	2	x 3	x 3 1/2	x 5	=	105 ,,
	2	x 2	x 3 1/2	x 5	=	70 ,,
	2	x 17	x 9 5/6		=	334 ,,
	2	x 3	x 3 1/2	x 5	=	105 ,,
	2	x 2	x 3 1/2	x 5	=	70 ,,
	1	x 32	x 17		=	544 ,,
	1	x 21	x 17		=	357 ,,
	1	x 21	x 17		=	357 ,,
F.Floor	4	x 21	x 17		=	1428 ,,

				1	x(	100	+	97 1/2	)x	7 1/2	= 1481 Sft
				1	x(	100	+	97 1/2	)x	6 3/4	= 1333 ,,
	4	x	2	x(	21	+	17	)x	5 1/2	= 1672 ,,
	1	x	2	x(	32	+	17	)x	5 1/2	= 539 ,,
	2	x	2	x(	21	+	17	)x	5 1/2	= 836 ,,
	2	x	2	x(	17	+	9 3/4	)x	5 1/2	= 589 ,,
	2	x	10	x(	3 1/2	+	5	)x	5 1/2	= 935 ,,
	2	x	10	x(	3 1/2	+	5	)x	5 1/2	= 935 ,,
G.F Coridor	1	x	2	x(	100	+	97	)x	5 1/2	= 2167 ,,
F.F	1	x	2	x(	100	+	97 1/2	)x	5 1/2	= 2173 ,,
OPD landing bed floor											
				2	x	18 5/8	x	18			= 671 ,,
				1	x	22 1/2	x	18			= 405 ,,
	2	x	2	x(	18 5/8	+	18	)x	5 1/2	= 806 ,,
	1	x	2	x(	22 1/2	+	18	)x	5 1/2	= 446 ,,
Toilets				1	x	7 1/2	x	9 1/2			= 71 ,,
				2	x	8 1/4	x	4			= 66 ,,
				1	x	6 7/8	x	6			= 41 ,,
				1	x	7 1/2	x	9 1/2			= 71 ,,
				2	x	7 3/4	x	9 3/4			= 151 ,,
	2	x	2	x(	7 1/2	+	9 1/2	)x	5 1/2	= 374 ,,
	2	x	2	x(	8 1/4	+	4	)x	5 1/2	= 270 ,,
	1	x	2	x(	6 7/8	+	6	)x	5 1/2	= 142 ,,
	2	x	2	x(	7 3/4	+	9 3/4	)x	5 1/2	= 385 ,,
				10	x	19	x	1 1/2			= 285 ,,
				10	x	19	x	1 1/4			= 238 ,,
				10	x	17	x	1 1/4			= 213 ,,
skirting OT	1	x	2	x(	21	+	17 1/2	)x	5	= 385 ,,
	1	x	1	x(	11 1/2	+	8 1/4	)x	5	= 99 ,,
	1	x	2	x(	12	+	21	)x	5	= 330 ,,
	1	x	2	x(	29	+	25	)x	5	= 540 ,,
	1	x	2	x(	21	+	17 1/2	)x	1/2	= 39 ,,
Office	1	x	2	x(	17 1/2	+	11	)x	1/2	= 29 ,,
	1	x	2	x(	11	+	17 1/2	)x	1/2	= 29 ,,
	1	x	2	x(	5	+	7	)x	1/2	= 12 ,,
	1	x	2	x(	10	+	10	)x	1/2	= 20 ,,
	1	x	2	x(	5	+	7	)x	5	= 120 ,,
	1	x	2	x(	17 1/2	+	22	)x	5	= 395 ,,
	1	x	2	x(	11 1/2	+	10	)x	1/2	= 22 ,,
				2	x	26 3/4	x	5 1/2			= 294 ,,
				2	x	39 1/4	x	5 1/2			= 432 ,,
	1	x	2	x(	61 7/8	+	25 7/8	)x	5 1/2	= 965 ,,
				1	x	12	x	7			= 84 ,,
				1	x	21	x	7			= 147 ,,
				1	x	29	x	7			= 203 ,,
				1	x	25	x	7			= 175 ,,
OT				1	x	21	x	17 1/2			= 368 ,,
				1	x	11 1/2	x	8 1/4			= 95 ,,
				2	x	19 1/2	x	11			= 429 ,,
				1	x	5	x	7			= 35 ,,
				1	x	10	x	10			= 100 ,,
				1	x	5	x	7			= 35 ,,
OPD				1	x	17 1/2	x	22			= 385 ,,
N.S				1	x	11 1/2	x	10			= 115 ,,

Total = 32194 Sft

Deduction

20	x	2 1/2	x	5 1/2	= 275 Sft
4	x	3	x	5 1/2	= 66 ,,
12	x	5	x	5 1/2	= 330 ,,
3	x	8	x	5 1/2	= 132 ,,
1	x	25 7/8	x	5 1/2	= 142 ,,
4	x	4	x	5 1/2	= 88 ,,

Total = 1033 Sft

Net Total (32194 - 1033) **= 31160 Sft**

@ 2335.85 %Sft 727861

(SA) Dimension tiles bricks & paved floorings

1+p+2S	@ 500	Sft
1×18×38	@ 630	"
1×22×37	@ 814	"

Total @ 1955 Sft

@ 863/50 /sft Rs 16782/-

6 Single layer of tiles 9"x 4½"x1½" laid over 4" earth and 1" mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. Per %sft. Or 1.72 Kg/Sq.m bitumen coating sand blinded i/c polyhtene sheet 500 gauge

	1	x 20	x 25	=	500 Sft
	1	x 18	x 35	=	630 ,,
	1	x 22	x 37	=	814 ,,
			Total	=	1944 Sft
				@	11928.7 %Sft 231894

7 Khuras on roof 2'x2'x6" (600x600x100mm)

= 5 Nos.
@ 854.35 Each 4272

8 Petty Repair to main rooms

= ~~30~~ 80 Nos. 33500
@ 1116.65 Each ~~89332~~

9 Petty Repair to small rooms

= ~~25~~ 12 Nos. 13956
@ 558.25 Each ~~33495~~

10 Petty Repair to Verandah

= ~~10~~ 20 Nos. 10620
@ 1062.00 Each ~~21240~~

11 Distempering one coat on old surface (Ceiling)

F.F Ward	1	x 17	x 9 5/6	=	167 Sft
	1	x 20 7/12	x 16 7/8	=	347 ,,
	1	x 20 1/12	x 16 7/8	=	339 ,,
	1	x 20 11/12	x 16 3/4	=	350 ,,
	1	x 21 1/6	x 16 11/12	=	358 ,,
Nursing Station	6	x 16 11/12	x 9 5/6	=	998 ,,
	1	x 16 11/12	x 10	=	169 ,,
Ward	6	x 16 11/12	x 9 5/6	=	998 ,,
	1	x 16 11/12	x 10	=	169 ,,
	6	x 16 11/12	x 9 5/6	=	998 ,,
	1	x 16 11/12	x 10	=	169 ,,
	1	x 31 11/12	x 16 11/12	=	540 ,,
Lady Ward	1	x 17	x 9 2/3	=	164 ,,
	1	x 32	x 16 11/12	=	541 ,,
	1	x 21 1/4	x 16 11/12	=	359 ,,
	1	x 20 11/12	x 16 11/12	=	354 ,,
Toilet	1	x 7 7/12	x 9 5/12	=	71 ,,
	1	x 16 11/12	x 9 5/6	=	166 ,,
Store	2	x 7 3/4	x 9 3/4	=	151 ,,
	1	x 197 1/2	x 7 1/2	=	1481 ,,
Coridor	1	x 197 1/2	x 6 3/4	=	1333 ,,
OPD	1	x 22 7/12	x 18	=	406 ,,
	1	x 12 5/12	x 14	=	174 ,,
	1	x 19 1/2	x 9 1/2	=	185 ,,
Lady Bed	2	x 18 5/8	x 18	=	671 ,,
Room	9	x 9 1/2	x 14	=	1197 ,,
	1	x 10 3/4	x 14	=	151 ,,
	1	x 6 7/8	x 4	=	28 ,,
Toilet	1	x 11 3/8	x 9 5/6	=	112 ,,
	2	x 8 1/4	x 4	=	66 ,,
	1	x 6 7/8	x 6	=	41 ,,
SMO Office	1	x 13 5/8	x 18	=	245 ,,
	1	x 7	x 7	=	49 ,,
	1	x 9	x 7 3/4	=	70 ,,
Store	1	x 9 1/8	x 7 1/2	=	68 ,,
X-Ray	1	x 18 3/4	x 17 1/2	=	328 ,,
Lab	1	x 17 3/8	x 18	=	313 ,,
emergency	1	x 11	x 18	=	198 ,,
	1	x 17	x 18	=	306 ,,
Room	1	x 18	x 18	=	324 ,,
	6	x 9	x 14	=	756 ,,
Ver	1	x 63	x 9 1/8	=	575 ,,
	1	x 86	x 9 1/8	=	785 ,,
	1	x 9 1/8	x 53 1/8	=	485 ,,

Ent.	1	x	29 3/8	x	27 3/8		=	804 Sft
Stair	1	x	29 3/8	x	14		=	411 ,,
	1	x	5 3/4	x	4 3/4		=	27 ,,
	1	x	11 3/4	x	10 1/2		=	123 ,,
Shade	182	x	4	x	1 3/4	x 1 1/2	=	1911 ,,
Nursing station	9	x	8	x	14		=	1008 ,,
Lab	2	x	9 1/8	x	14		=	256 ,,
	6	x	16 11/12	x	9 5/6		=	998 ,,
	1	x	16 11/12	x	9 5/6		=	166 ,,
	1	x	197 1/2	x	7 1/2		=	1481 ,,
	1	x	197 1/2	x	6 3/4		=	1333 ,,
	1	x	4	x	6 1/2		=	26 ,,
	1	x	4	x	6 7/8		=	28 ,,
Porch	1	x	17 3/4	x	21 1/4		=	377 ,,
G.F Ward	1	x	17	x	9 5/8		=	164 ,,
	1	x	20 7/12	x	16 7/8		=	347 ,,
	1	x	20 1/6	x	16 11/12		=	341 ,,
	1	x	20 11/12	x	16 3/4		=	350 ,,
	1	x	20 1/6	x	16 11/12		=	341 ,,
Nursing room	6	x	16 11/12	x	9 5/6		=	998 ,,
	1	x	16 11/12	x	10		=	169 ,,
ward	1	x	31 11/12	x	16 11/12		=	540 ,,
	1	x	17	x	9 2/3		=	164 ,,
Lady ward	1	x	32	x	16 11/12		=	541 ,,
	1	x	21 1/4	x	16 11/12		=	359 ,,
	1	x	20	x	16 11/12		=	338 ,,
	2	x	20 11/12	x	16 11/12		=	708 ,,
Toilet	1	x	7 7/12	x	9 5/6		=	75 ,,
	1	x	16 11/12	x	9 5/6		=	166 ,,
	2	x	7 3/4	x	9 3/4		=	151 ,,
Coridor	1	x	197 1/2	x	7 1/2		=	1481 ,,
	1	x	197 1/2	x	6 3/4		=	1333 ,,
	4	x	16 5/6	x	6 1/2		=	438 ,,
	4	x	4 5/6	x	6 1/2		=	126 ,,
	4	x	16 5/6	x	15 1/4		=	1027 ,,
	4	x	2 1/2	x	6 1/2		=	65 ,,
	1	x	15 1/4	x	16 3/4		=	255 ,,
	4	x	15 1/4	x	7 3/4		=	473 ,,
	2	x	16 3/4	x	9 5/6		=	329 ,,
	3	x	8 3/4	x	4 3/4		=	125 ,,
	3	x	7 1/2	x	2 1/2		=	56 ,,
	15	x	15 5/6	x	9 3/4		=	2316 ,,
	8	x	20 5/6	x	16 5/8		=	2771 ,,
	200	x	4	x	1 1/2	x 1 3/4	=	2100 ,,
	351	x	4	x	1 1/2	x 1 3/4	=	3686 ,,
	400	x	4	x	1 1/2	x 1 3/4	=	4200 ,,
	6	x	33	x	20		=	3960 ,,
	8	x	276	x	7 3/4		=	17112 ,,
	1	x	24	x	16		=	384 ,,

Total = 74693 Sft

@ 561.30 %Sft 419252

12 Preparing surface and painting with emulsion paint i/c scraping ordinary distempering or paint 2-coats on old surface.

F.F ward

	1	x	2	x(	17	+ 9 5/6	)x 6	=	322 Sft
	1	x	2	x(	20 7/12	+ 16 7/8	)x 5 5/6	=	437 ,,
	1	x	2	x(	20 1/12	+ 16 3/4	)x 5 5/6	=	430 ,,
	1	x	2	x(	20 11/12	+ 16 3/4	)x 5 5/6	=	439 ,,
	1	x	2	x(	21 1/6	+ 16 11/12	)x 5 5/6	=	444 ,,
Nursing station	6	x	2	x(	16 11/12	+ 9 5/6	)x 5 5/6	=	1872 ,,
	1	x	2	x(	16 11/12	+ 10	)x 5 5/6	=	314 ,,
ward	1	x	2	x(	32	+ 16 11/12	)x 5 5/6	=	571 ,,
	1	x	2	x(	21 1/4	+ 16 11/12	)x 5 5/6	=	445 ,,
	2	x	2	x(	20 11/12	+ 16 11/12	)x 5 5/6	=	883 ,,
Toilet	1	x	2	x(	20	+ 16 11/12	)x 5 5/6	=	431 ,,
	1	x	2	x(	7 7/12	+ 9 5/12	)x 5 5/6	=	198 ,,
	1	x	2	x(	16 11/12	+ 9 5/6	)x 5 5/6	=	312 ,,
	2	x	2	x(	7 3/4	+ 9 3/4	)x 11 1/2	=	805 ,,
	1	x	2	x(	197 1/2	+ 7 1/2	)x 5 5/6	=	2392 ,,

	1	x	2	x(	197 1/2	+	6 3/4	)x	5 5/6	=	2383	Sft
	1	x	2	x(	22 7/8	+	18	)x	6	=	491	,,
	1	x	2	x(	12 5/8	+	14	)x	6	=	320	,,
	1	x	2	x(	19 1/2	+	9 1/8	)x	6	=	344	,,
	2	x	2	x(	18 5/8	+	8	)x	6	=	639	,,
	9	x	2	x(	8 1/8	+	14	)x	6	=	2390	,,
	1	x	2	x(	10 3/4	+	14	)x	6	=	297	,,
	6	x	2	x(	16 11/12	+	9 5/6	)x	6	=	1926	,,
	1	x	2	x(	16 11/12	+	10	)x	6	=	323	,,
	1	x	2	x(	197 1/2	+	7 1/2	)x	6	=	2460	,,
	1	x	2	x(	197 1/2	+	6 3/4	)x	6	=	2451	,,
	1	x	2	x(	6 7/8	+	4	)x	6	=	131	,,
	1	x	2	x(	11 3/8	+	9 5/8	)x	6	=	252	,,
	2	x	2	x(	8 1/4	+	4	)x	6	=	294	,,
	1	x	2	x(	6 7/8	+	6	)x	6	=	155	,,
	1	x	2	x(	13 5/8	+	18	)x	6	=	380	,,
	1	x	2	x(	7	+	7	)x	6	=	168	,,
	1	x	2	x(	9	+	7 3/4	)x	6	=	201	,,
	1	x	2	x(	9 1/2	+	8 1/2	)x	6	=	216	,,
	1	x	2	x(	18 3/8	+	17 1/2	)x	6	=	431	,,
Emergency	1	x	2	x(	11	+	18	)x	6	=	348	,,
	1	x	2	x(	11	+	18	)x	6	=	348	,,
	1	x	2	x(	17	+	18	)x	6	=	420	,,
	1	x	2	x(	18	+	18	)x	6	=	432	,,
	6	x	2	x(	9	+	14	)x	6	=	1656	,,
	1	x	2	x(	63	+	9 1/8	)x	6	=	866	,,
	1	x	2	x(	83	+	9 1/8	)x	6	=	1106	,,
	1	x	2	x(	9 1/8	+	5 3/8	)x	6	=	174	,,
	1	x	2	x(	29 3/8	+	27 3/8	)x	6	=	681	,,
	1	x	2	x(	29 3/8	+	14	)x	6	=	521	,,
	1	x	2	x(	5 3/4	+	4 3/4	)x	6	=	126	,,
	1	x	2	x(	11 3/4	+	10 1/2	)x	11	=	490	,,
Nursing st.	8	x	2	x(	9	+	14	)x	6	=	2208	,,
	2	x	2	x(	9 1/8	+	14	)x	6	=	555	,,
	1	x	2	x(	4	+	6 1/2	)x	6	=	126	,,
	1	x	2	x(	4	+	6 7/8	)x	6	=	131	,,
	1	x	2	x(	17 3/4	+	21 1/4	)x	6	=	468	,,
	1	x	2	x(	17	+	9 5/8	)x	6	=	320	,,
	1	x	2	x(	20 7/12	+	16 7/8	)x	6	=	449	,,
	1	x	2	x(	20 7/12	+	16 7/8	)x	6	=	449	,,
	1	x	2	x(	20 11/12	+	16 3/4	)x	6	=	452	,,
	1	x	2	x(	20 1/6	+	16 11/12	)x	6	=	445	,,
	6	x	2	x(	16 11/12	+	9 5/6	)x	6	=	1926	,,
	1	x	2	x(	16 11/12	+	10	)x	6	=	323	,,
	1	x	2	x(	31 11/12	+	16 11/12	)x	6	=	586	,,
	1	x	2	x(	17	+	9 2/3	)x	6	=	320	,,
	1	x	2	x(	32	+	16 11/12	)x	6	=	587	,,
	1	x	2	x(	21 1/4	+	16 11/12	)x	6	=	458	,,
	1	x	2	x(	20	+	16 11/12	)x	6	=	443	,,
	2	x	2	x(	20 11/12	+	16 11/12	)x	6	=	908	,,
	1	x	2	x(	7 7/12	+	9 5/6	)x	6	=	209	,,
	1	x	2	x(	16 11/12	+	9 5/6	)x	6	=	321	,,
	2	x	2	x(	7 3/4	+	9 5/6	)x	6	=	422	,,
	1	x	2	x(	197 1/2	+	7 1/2	)x	6	=	2460	,,
	1	x	2	x(	197 1/2	+	6 3/4	)x	6	=	2451	,,
	4	x	2	x(	16 5/8	+	15 1/4	)x	10 1/2	=	2678	,,
	4	x	2	x(	4 5/6	+	6 1/2	)x	10 1/2	=	952	,,
	4	x	2	x(	2 1/2	+	6 1/2	)x	6	=	432	,,
	1	x	2	x(	15 1/4	+	16 3/4	)x	10 1/2	=	672	,,
	4	x	2	x(	15 1/4	+	7 3/4	)x	10 1/2	=	1932	,,
	2	x	2	x(	16 3/4	+	9 5/6	)x	10 1/2	=	1116	,,
	3	x	2	x(	8 3/4	+	4 3/4	)x	6	=	486	,,
	3	x	2	x(	8 3/4	+	7 3/4	)x	6	=	594	,,
	15	x	2	x(	15 5/6	+	18	)x	10 1/2	=	10657	,,
	8	x	2	x(	20 5/6	+	16 5/8	)x	10 1/2	=	6293	,,
	1	x	2	x(	24	+	16	)x	10 1/2	=	840	,,
	1	x	2	x(	16 3/4	+	15 1/2	)x	10 1/2	=	677	,,
	1	x	2	x(	15 1/3	+	7 3/4	)x	6	=	277	,,
	1	x	2	x(	10 1/2	+	7 3/4	)x	6	=	219	,,
	2	x	2	x(	16 3/4	+	10	)x	10 1/2	=	1124	,,

2	x	2	x(	16 3/4	+	9 5/6	)x	10 1/2		=	1116	Sft
2	x	2	x(	17 1/2	+	10 1/4	)x	10		=	1110	,,
2	x	2	x(	32 1/2	+	17 1/2	)x	6		=	1200	,,
1	x	2	x(	32 1/8	+	17 1/2	)x	6		=	596	,,
4	x	2	x(	197 1/2	+	6 3/4	)x	6		=	9804	,,
6	x	2	x(	198	+	7	)x	12		=	29520	,,
									Total	=	**123021**	**Sft**
										@	2796.55	%Sft 3440337

13 Painting doors and windows two coat on old surface after scraping of old paint

21	x	2	x	3 1/2	x	7				=	1029	Sft
5	x	2	x	4	x	7				=	280	,,
1	x	2	x	31 5/6	x	2 5/6				=	180	,,
1	x	2	x	5	x	8				=	80	,,
12	x	2	x	2 1/2	x	7				=	420	,,
2	x	2	x	7 2/3	x	6 7/12				=	202	,,
5	x	2	x	2 1/3	x	7				=	163	,,
5	x	2	x	2 5/12	x	7				=	169	,,
1	x	2	x	5	x	8 1/2				=	85	,,
5	x	2	x	3 3/4	x	6 5/6				=	256	,,
6	x	2	x	3 5/12	x	8 1/2				=	348	,,
1	x	2	x	4 11/12	x	8 1/2				=	84	,,
2	x	2	x	3	x	8 1/2				=	102	,,
12	x	2	x	4	x	8 1/2				=	816	,,
2	x	2	x	2 5/6	x	8 1/2				=	96	,,
7	x	2	x	2 1/2	x	7				=	245	,,
1	x	2	x	3 7/8	x	7				=	54	,,
1	x	2	x	9 1/8	x	6 7/8				=	125	,,
1	x	2	x	2 1/2	x	7				=	35	,,
3	x	2	x	11 1/2	x	7				=	483	,,
12	x	2	x	2 11/12	x	8 1/2				=	595	,,
6	x	2	x	4	x	8 1/2				=	408	,,
40	x	2	x	5	x	8 1/2				=	3400	,,
0	x	2	x	3 1/2	x	7				=	0	,,
1	x	2	x	100	x	2 2/3				=	533	,,

Wall border paint

M.S Office waiting room

1	x	2	x(	16	+	8 1/6	)x	5		=	242	,,
1	x	2	x(	32	+	17 1/4	)x	4 1/4		=	419	,,
1	x	2	x(	11 1/2	+	10	)x	4 1/3		=	186	,,
1	x	2	x(	53 1/2	+	6 5/6	)x	4 5/12		=	533	,,
3	x	2	x(	10 1/6	+	10	)x	4 5/12		=	534	,,
3	x	2	x(	4 5/12	+	7 1/2	)x	4 5/12		=	316	,,
1	x	2	x(	21	+	17 1/2	)x	6		=	462	,,
1	x	17 5/12	x	3 3/4						=	65	,,
									Total	=	**12945**	**Sft**
										@	3257.10	%Sft 421617

14 Painting sashes, fan light, glazed or gauzed doors and windows two coat on old surface after burning of old paint

40	x	3	x	6	x	6				=	4320	Sft
3	x	2	x	4	x	5 1/2				=	132	,,
1	x	2	x	7 1/2	x	5 1/2				=	83	,,
7	x	2	x	6	x	1 1/2				=	126	,,
2	x	2	x	2	x	4				=	32	,,
7	x	2	x	6	x	6				=	504	,,
1	x	2	x	16	x	6				=	192	,,
9	x	2	x	3/4	x	3/4				=	10	,,
9	x	2	x	3	x	2				=	108	,,
9	x	2	x	6	x	1 1/2				=	162	,,
2	x	2	x	3	x	1 1/2				=	18	,,
2	x	2	x	6	x	6 1/2				=	156	,,
27	x	4	x	3/4	x	3/4				=	61	,,
27	x	1	x	3	x	1 1/2				=	122	,,
27	x	2	x	6	x	3				=	972	,,
27	x	2	x	3	x	1 1/2				=	243	,,
65	x	2	x	8 1/2	x	8				=	8840	,,
85	x	2	x	10	x	6				=	10200	,,

1	x 2	x 33	x 3			=	198 Sft
1	x 2	x 45	x 3			=	270 ,,
1	x 2	x 32	x 3			=	192 ,,
1	x(12	+ 9	)x 3			=	63 ,,
(8	+ 8	+ 8	+ 16 1/2	)x 2 3/4		=	111 ,,
2	x 7 5/6	x 2 3/4				=	43 ,,
(7 1/2	+ 8	+ 9 1/4	)x 2 3/4			=	68 ,,
1	x 8	x 9				=	72 ,,
1	x 7	x 11				=	77 ,,
2	x 53	x 2	x 2 3/4			=	583 ,,
1	x 9 1/2	x 2 3/4				=	26 ,,
1	x 32	x 3 1/4				=	104 ,,
1	x 14 1/2	x 5 1/4				=	76 ,,
1	x 27 1/3	x 2 3/4				=	75 ,,
1	x 2	x(4 1/2	+ 6 5/6	)		=	60 ,,
2	x 2	x 9 5/6	x 9 5/6			=	387 ,,
1	x 2	x 160	x 2 1/2			=	800 ,,
1	x 2	x 80	x 2 1/2			=	400 ,,
2	x 2	x 12	x 10			=	480 ,,

Total = 30366 Sft

~~@ 2603.55 %Sft 790605~~

15 Painting guards bars, gate of iron bars graiting, railing etc. two coats on old surface i/c burning of old paint etc. complete

(62	+ 73	+ 34	+ 45	)x 2 3/4		=	589 Sft
(8	+ 8 1/4	+ 10	+ 7	)x 2 3/4		=	91 ,,
(8 1/2	+ 7	+ 10	+ 6 1/2	)x 2 3/4		=	88 ,,
(7	+ 10	+ 6	)x 2 3/4			=	63 ,,

Total = 831 Sft

@ 2603.55 %Sft 21640

16 Providing and applying wall putty of 2mm thicknes sover plaster
Take qty.item No.12

= 123021 Sft

@ 371.05 %Sft 456469

17 P/Applying weather shield paint of approved quality on external surface of buildings i/c preparation of surface application of primer complete in all respect one coat on old surface

2	x(280	+ 280	+ 50	+ 50	)x 30		=	39600 Sft
2	x(196	+ 45	)x 15 3/4				=	7592 ,,
2	x 10 5/6	x 1 1/2					=	32 ,,
1	x 23 3/4	x 1 1/2					=	36 ,,
4	x(12	+ 18 5/12	)x 10				=	1217 ,,
2	x 12	x 1 1/2					=	36 ,,
1	x 27 1/3	x 8 1/2					=	232 ,,
1	x 72 3/4	x 14 1/3					=	1043 ,,
2	x 12 5/12	x 14 1/3					=	356 ,,

Total = 50143 Sft

Deduction

W1	28	x 6	x 6	=	1008 Sft	
W-2	3	x 6	x 8	=	144 ,,	
W-3	8	x 6	x 3	=	144 ,,	

Total = 1296 Sft

Net Total (50143 - 1296) **= 48847 Sft**

@ 1925.45 %Sft 940527

18 Extra labour for weather shield paint upto 20' height

2 x(280 + 280 + 50 + 50)x 10 **= 13200 Sft**

@ 36.55 %Sft 4825

19 Providing and laying super quality Porcelain glazed tiles of Master brand ,floor of specifiedsize, Colorand Shade with adhesive / bond over 1/2" thick (1:2) cement plasteri / the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

a) Full body Glazed tiles

(ii) 600 mm x 600 mm

Ent. Tarrace	1	x	21 1/8	x	13			=	275 Sft
OPD Hall	1	x	22	x	39 1/4			=	864 ,,
East side ent.	1	x	26 3/4	x	26 1/4			=	702 ,,
	1	x	27	x	12 1/8			=	327 ,,
	1	x	61 7/8	x	25 7/8			=	1601 ,,
	1	x	46 1/8	x	9 5/6			=	454 ,,
	1	x	32	x	17			=	544 ,,
	2	x	21	x	17			=	714 ,,
	4	x	21	x	17			=	1428 ,,
	1	x(	100	+	97 1/2	)x	6 3/4	=	1333 ,,
	1	x(	100	+	97 1/2	)x	7 1/2	=	1481 ,,
	2	x	18 5/8	x	18			=	671 ,,
	1	x	22 1/2	x	18			=	405 ,,
OT block	1	x	12	x	7			=	84 ,,
	1	x	21	x	7			=	147 ,,
	1	x	29	x	7			=	203 ,,
	1	x	25	x	7			=	175 ,,
	1	x	21	x	17 1/2			=	368 ,,
	1	x	11 1/2	x	8 1/2			=	98 ,,
Office	2	x	17 1/2	x	11			=	385 ,,
	1	x	5	x	7			=	35 ,,
	1	x	10	x	10			=	100 ,,
	1	x	5	x	7			=	35 ,,
Eye OPD	1	x	17 1/2	x	22			=	385 ,,
N.S	1	x	11 1/2	x	10			=	115 ,,

Total = 12929 Sft

@ 340.50 P.Sft 4402452

20 Providing and laying super quality Porcelain glazed tiles of Master brand ,skirting / dadoof specifiedsize, Colorand Shade with adhesive / bond over 1/2" thick (1:2) cement plasteri / the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

a) Full body Glazed tiles

(ii) 600 mm x 600 mm

	4	x	2	x(	21	+	17	)x 6	=	1824 Sft
	1	x	2	x(	32	+	17	)x 6	=	588 ,,
	2	x	2	x(	21	+	17	)x 6	=	912 ,,
G.F	2	x	2	x(	17	+	9 3/4	)x 5 1/2	=	589 ,,
F.F	2	x	2	x(	17	+	9 3/4	)x 5 1/2	=	589 ,,
Doridoor	1	x	2	x(	100	+	97 1/2	)x 5 1/2	=	2173 ,,
	1	x	2	x(	100	+	97 1/2	)x 5 1/2	=	2173 ,,
Opd Lady ward	2	x	2	x(	18 5/8	+	18	)x 5 1/2	=	806 ,,
	1	x	2	x(	22 1/2	+	18 1/2	)x 5 1/2	=	451 ,,
Ent. Hall			2	x	26 3/4	x	5 1/2		=	294 ,,
			2	x	39 1/4	x	5 1/2		=	432 ,,
	1	x	2	x(	61 7/8	+	25 7/8	)x 5 1/2	=	965 ,,

Total = 11794 Sft

Deduction

~~26~~ 40	x	2 1/2	x	5 1/2	=	~~275 Sft~~ 550
08 ~~48~~	x	3	x	5 1/2	=	~~66 ,,~~ 132
24 ~~1224~~	x	5	x	5 1/2	=	~~330 ,,~~ 660
06 ~~86~~	x	8	x	5 1/2	=	~~132 ,,~~ 264
1	x	25 7/8	x	5 1/2	=	142 ,,
4	x	4	x	5 1/2	=	88 ,,

Total = ~~1033 Sft~~ 1836 1836

9958 9958

Net Total (11794 - ~~1033~~ 1836) = ~~10761 Sft~~ 9958

@ 340.50 P.Sft ~~3664121~~ 3390699/

21 Providing and laying super quality Ceramic tile floor s of Master brand of specifiedsize ,Glossy / Matt / Texture of approved Color and Shade as per approved design with adhesive bond ,over 3/4" thick (1;2) cement sand plasteri / the cost of sealer for finishing the jointsi / cutting grinding complete in all respect sand as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Toilet

G.F ward	2	x	17	x	9 3/4	=	332	Sft
	10	x	3 1/2	x	5 1/2	=	193	,,
F.F	2	x	17	x	9 3/4	=	332	,,
	10	x	3 1/2	x	5	=	175	,,
Toilet	1	x	7 1/2	x	9 1/2	=	71	,,
	2	x	8 1/4	x	4	=	66	,,
	1	x	6 7/8	x	6	=	41	,,
	1	x	7 1/2	x	9	=	68	,,
	2	x	7 3/4	x	9 3/4	=	151	,,

Total = 1429 Sft

@ 239.90 P.Sft 342817

22 Providing and laying superb quality Ceramic tiles dado of Master brand of specifiedsize, Glossy/ Matt/ Texture skirting/dado of approved Color and Shadewit had hesive bond over 1/2" thick (1:2) cement plasteri / the cost of sealer for finishing the jointsi /ccutting grinding complete in ali respect sas approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

G.F WC

2	x	5	x	2	x(	3 1/2	+	5	)x	5 1/2	=	935 Sft
2	x	5	x	2	x(	3 1/2	+	5	)x	5 1/2	=	935 ,,
		2	x	2	x(	7 1/2	+	9 1/2	)x	5 1/2	=	374 ,,
		2	x	2	x(	8 1/4	+	4	)x	5 1/2	=	270 ,,
		1	x	2	x(	6 7/8	+	6	)x	5 1/2	=	142 ,,
		2	x	2	x(	7 3/4	+	9 3/4	)x	5 1/2	=	385 ,,

Total = 3040 Sft

Deduction

20 x 2 1/2 x 5 1/2 = 275 Sft

Total = 275 Sft

Net Total (3040 - 275) = **2765 Sft**

@ 292.65 P.Sft 809214

23 Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge.

1	x	20 7/8	x	16 7/8	=	352	Sft
1	x	25 9/16	x	17 1/4	=	441	,,

Total = 793 Sft N.S

@ 1134.00 P.Sft 899262

24 Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge.

(b) Bevelled edges & flange 21.5 mm

(iii)600 mmX 600 mm

1	x	20 7/8	x	16 7/8	=	352	Sft
1	x	25 9/16	x	17 1/4	=	441	,,

Total = 793 Sft N.S

@ 945.00 P.Sft 749385

25 Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by the Engineer In-charge
(b) 2.5mm thick

OT	1	x	2	x(	20 7/8	+	16 7/8	)x	10	=	755 Sft
Labour room	1	x	2	x(	25 9/16	+	17 1/4	)x	10	=	856 ,,
									Total	=	**1611 Sft** **N.S**
										@	1890.00 P.Sft 3045263

26 Providing And Laying Non-Slippery Porcelain Tiles /Checker Tile For Flooring (12"X12" Size) Light Polished Sb, Laid Over Cement Sand Mortar (Ratio 1:2) 3/4"-Thick I/C Filling Joints With White Cement, Complete In All Respects And As Approved By The Engineer Incharge

Ramp	1	x	62	x	7 1/2				=	465 Sft
	1	x	11	x	12 1/2				=	138 ,,
	1	x	34	x	7				=	238 ,,
	1	x	18	x	7				=	126 ,,
	2	x	23	x	7				=	322 ,,
								Total	=	**1289 Sft** **N.S**
									@	292.00 P.Sft 376388

27 Providingandlaying3/4"thickfullwidthPrepolishedMarbleslabforVanities/ Shelves/Treads/WindowCills,havingUniformtexture(Spotless)withadhe sivebondover3/4"thick(1:2)cementsandmortori/cthecostofmatchingseal ercompleteinallrespectsasapproved and directed by the Engineer Incharge i)
China Verona

	3	x	27	x	1				=	81 Sft
	5	x	20	x	1				=	100 ,,
stair	2	x	22	x	4 1/4	x	1		=	187 ,,
Landing	2	x	2	x	4	x	4 1/4		=	68 ,,
	2	x	22	x	4 1/4		1		=	187 ,,
Wind: cill	7	x	4 1/4	x	1				=	30 ,,
	8	x	6	x	1				=	48 ,,
	2	x	8 1/4	x	1				=	17 ,,
	5	x	7 1/4	x	1				=	36 ,,
Step emergency	3	x	20	x	1				=	60 ,,
								Total	=	**814 Sft**
									@	412.30 P.Sft 335612

28 Providingandlaying3/8"thickPrepolishedMarbleskirting/risershavingunif ormtexture(spotless)ofsize24"x6"ofapprovedqualityandshadewithadhe sivebondover3/4"thick(1:2)cementsandmortorcompleteinallrespecti/cth ecostofmatchingsealertofinishthe joints as approved and directed by the Engineer Incharge. i) China Verona

	3	x	27	x	7/12				=	47 Sft
	5	x	20	x	1/2				=	50 ,,
	2	x	25	x	4 1/2	x	1/2		=	113 ,,
	2	x	25	x	4	x	1/2		=	100 ,,
	3	x	20	x	1/2				=	30 ,,
								Total	=	**340 Sft**
									@	412.30 P.Sft 140182

29 Providing and fixing all types of partly fixed and partly openable glazed anodized bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan cables, having chowkat frame of size 40x100mm (1½"x4") and leaf frame of 60x40mm) (2½"x1½") wide section including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75mm) wide long handles etc., and hardware any required as approved by the Engineer-in-charge.

	1	x	7	x	10 3/4			=	75 Sft
	1	x	5	x	8 1/2			=	43 ,,
	2	x	8	x	8 1/2	x	1/2	=	68 ,,
	3	x	5	x	8 1/2	x	1/2	=	64 ,,
Eye block	2	x	3 1/4	x	8 1/2			=	55 ,,
	1	x	3 1/2	x	7			=	25 ,,

Total = 330 Sft
@ 1437.60 P.Sft 0

30 Providing and fixing auotomatic hydraulic operated door close rimported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

= 10 Nos.
@ 2932.00 Each 29320

31 Providing and fixing Openable door comprising of 3mm thick UPVC hollow profile ,chowkat frame of 60mmx64mm and leaf frame 60 mmx106 mm both duly reinforced with G.I box frame inside the void with 20 mm wide panel with grooves on both sides i/e the cost of

20	x	2 1/2	x	7	= 350 Sft
4	x	3	x	7	= 84 ,,
9	x	2 1/2	x	7	= 158 ,,
3	x	2 1/2	x	7	= 53 ,,
2	x	2 1/2	x	7	= 35 ,,

Total = 680 Sft N.S
@ 880.00 P.Sft 598400

32 Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.

OPD	2	x	6	x	8	=	96 Sft
	24	x	6	x	6	=	864 ,,
	8	x	6	x	6	=	288 ,,
	7	x	4 1/4	x	5 1/2	=	164 ,,
	8	x	6	x	7 1/4	=	348 ,,
	2	x	8	x	7 1/2	=	120 ,,
	5	x	7 1/8	x	5 1/2	=	196 ,,
	9	x	6	x	3	=	162 ,,

Total = 2238 Sft
@ 1348.40 P.Sft 3017139

33 Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/ powder coated of size1-1/2"x1/2" and 1.6mm thick with rubber gas keti / c cost of Hardwares as approved and directed by theen gineerincharge.completeinallrespect.

2	x	6	x	8	=	96 Sft	
24	x	6	x	6	=	864 ,,	
8	x	6	x	6	=	288 ,,	
7	x	4 1/4	x	5 1/2	=	164 ,,	
8	x	6	x	7 1/4	=	348 ,,	
2	x	8	x	7 1/2	=	120 ,,	
5	x	7 1/8	x	5 1/2	=	196 ,,	
9	x	6	x	3	=	162 ,,	

Total = 2238 Sft

1/2	x	2238	=	**1119 Sft**

@ 493.05 P.Sft 551723

34 Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (i) 3/8" Squar Bars

	2	x	6	x	8		=	96 Sft	
	24	x	6	x	6		=	864 ,,	
	8	x	6	x	6		=	288 ,,	
	7	x	4 1/4	x	5 1/2		=	164 ,,	
	8	x	6	x	7 1/4		=	348 ,,	
	2	x	8	x	7 1/2		=	120 ,,	
	5	x	7 1/8	x	5 1/2		=	196 ,,	
	9	x	6	x	3		=	162 ,,	
						Total	=	**2238 Sft**	
							@	854.70 P.Sft	1912451

35 P/F 1-1/2" thick solidflush door comprisingof 2.5 mm thick Commercial ply compressedover 2.5 mm thick commercial ply over 1" thick packing wood instyle and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Paintingcharges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge

	4	x	5	x	7		=	140 Sft	
	2	x	3 1/2	x	7		=	49 ,,	
						Total	=	**189 Sft**	
							@	502.20 P.Sft	94916

36 Providing and fixing sliding bolt to doors:-
ii) Iron sliding bolt, 12" (300 mm) long. = **6 Nos.**
@ 470.00 Each 2820

37 Providing and Fixing False Ceiling of Gypsum Board (Impported) with 01-side laminated consisting of imported Tee 1"x1"x1/16 and 1"x1x1/16" angle on wall sides powder coated on lower exposed side coated with all accessories such as hanging wires, hooks, screws, rowel plugs and cross joints etc complete in all respects and as approved by the Engineer Incharge.

iii) 9 mm thick

Coridor	1	x(	100	+	97 1/2	)x	7 1/2			=	1481 Sft	
								Total	=	**1481 Sft**		
									@	95.25 P.Sft		0

38 Pacca brick work in First floor in cement sand mortar ratio 1:4

	1	x	17	x	3/8	x	11 1/2			=	73 cft	
	1	x(	8	+	7	)x	3/8	x	10	=	56 ,,	
	1	x	15	x	3/8	x	10			=	56	
									Total	=	**186 Cft**	
									@	29562.50 %Cft		54930

39 Add extra labour on item No. 5 for brick work in:
First floor
Take qty. item No. 38 = **186 Cft**
@ 1345.85 %Cft 2501

40 1/2" thick cement sand plaster ratio 1:4 upto 20' height

		1	x	17	x	11 1/2				=	196 Sft	
1	x	2	x(	8	+	7	)x	10		=	300 ,,	
		1	x	15	x	2	x	10		=	300 ,,	
									Total	=	**796 Sft**	
									@	3241.60 %Sft		25803

41 Painting new surface: -
c) Preparing surface and painting of doors and windows any type (including edges) 3-coats

	4	x	2	x	5	x	7	=	280 Sft
	2	x	2	x	3 1/2	x	7	=	98 ,,

Total = 378 Sft
@ 2714.80 %Sft 10262

42 Providing and fixing 2"X2" Stainless Steel 14 SWG Corner Guard angle with bevelled corner and 0.8 mm bend at edges duly pasted with premium grade self-adhesive glue strips with excellent hold/(double sided Tape) as approved and directed by the Engineer Incharge.

Opening edge											
Doors edge	60	x	2	x	5 1/2	x	1/3			=	220 Sft
Jaints	8	x(	11	+	11	+	8 1/2	)x	1/3	=	81 ,,
	6	x	12	x	1/3					=	24 ,,
Doors	5	x	2	x	5	x	4			=	200 ,,

Total = 525 Sft N.S
@ 1060.00 P.Sft 556513

43 Supply & Installation of Phillips, LED Panel Light 24"x24" (RC 091 LED 38S / 865 40-W) in Fasle Ceilign of approved manufacturer i/c cost of all labour & material complete, as approved by the Engineer Incharge.

= **50 Nos. N.S**
@ 14800.00 Each 740000

Total Rs: = ~~30922000~~ 2881977
Say Rs: = ~~30922000~~ 2881977

Sub Engineer

Sub Divisional Officer
Byuildings Sub Division
Khanewal

Executive Engineer
Byuildings Division
Khanewal

Public Health Installation

2nd Bi-Annual 2022

1	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	=	**27 Nos.** @ 2218.30 Each	59894
2	Providing and fitting glazed earthen ware wash hand basin /vanity	=	**25 Nos.** @ 6603.90 Each	165098
	v) Under Counter Vanity Basin	=	**5 Nos.** @ 7329.95 Each	0
3	Providing and fitting low down plastic made flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. ii) colored	=	**27 Nos.** @ 2649.10 Each	71526
4	Providing and fitting "P" trap (ii). 10 cm (4") glazed	=	**43 Nos.** @ 283.10 Each	12173
5	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Betaor equivalent, plain/socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents completeinall respect as approved and directed by theEngineer Incharge.Type (SDR 32.5/SN-8) 4" dia			
	a) 4" dia	=	**300 Rft** @ 260.60 P.Rft	78180
	b) 3" dia	=	**250 Rft** @ 163.75 P.Rft	40938
6	Providing and laying testeing commissioning of POLY PROPYLENE RANDOM COMOPYME (PPRC) WATER SUPPLY PIPE MADE OF (Dads/popular / Beta/ BBJ0 with speicfied pressure rating PN (Pressure Nominal) and conforming to Din 8077-8078 code i/c cost of solvent specials, matking jharries complete in all respect as approved and directed by engineer incharge (Internal/Eternal Diametrs mentioned) a) PN-16 Pipe			
	i) 25 mm dia	=	**1000 Rft** @ 57.95 P.Rft	57950
	ii) 32 mm dia	=	**1200 Rft** @ 93.65 P.Rft	112380
	iii) 40 mm dia	=	**1000 Rft** @ 129.40 P.Rft	129400
7	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal / Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer incharge			
	i) 3/4" dia	=	**15 Nos.** @ 1434.00 Each	21510
	ii) 1" dia	=	**7 Nos.** @ 1674.00 Each	11718
	iii) 1-1/4" dia	=	**3 Nos.** @ 1830.00 Each	5490
8	Providing and fitting Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (fullsize) i/c the cost of CP / rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	=	**6 Nos.** @ 19987.90 Each	119927
9	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge. i) Plastic soap dish	=	**10 Nos.** @ 1200.00 Each	12000

ii) Plastic toilet paper holder	=	10 Nos. @ 900.00 Each	9000
iii) Plastic tower rail	=	10 Nos. @ 1400.00 Each	14000
iv) Plastic shelf 60x13 cm (24:x5") with bracket and railing	=	10 Nos. @ 900.00 Each	9000
v) Plastic Brush holder	=	10 Nos. @ 900.00 Each	9000
vi) Looking glass with plastic frame	=	10 Nos. @ 1700.00 Each	17000
vii) Towel rail	=	10 Nos. @ 600.00 Each	6000
10 Providing and fixing CP bath Room Set made of Sonex / Master / Faisal comprising of 3-No Tee stop cocks ,lever type Basin Mixer, double Bib Cock,open wall shower, Muslim shower, waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge.			
i) 3-No. Tee stop cock	=	11 Nos. @ 2092.00 Each	23012
ii) Lever type Basin Mixer	=	~~11~~ 266 Nos. @ 6532.00 Each	~~71852~~ 169832
iii) Double bib cock	=	11 Nos. @ 1732.00 Each	19052
(iv) Open Type Wall Shower	=	11 Nos. @ 18532.00 Each	203852
v) Muslim shower	=	11 Nos. @ 2212.00 Each	24332
vi) Waste Coupling	=	11 Nos. @ 592.00 Each	6512
11 Providing and fixing chromium plated mixing valve, for wash hand basin, sink or shower.	=	~~15 Nos. @ 2228.75 Each~~	~~33431~~
12 Providing and fixing chromium plated tee stop cock 13 mm (½").	=	53 Nos. @ 955.00 Each	50615
13 Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	=	30 Nos. @ 775.00 Each	23250
14 Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15"x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	=	20 Nos. @ 1084.60 Each	21692
15 Providing and Fixing C.P Elbow Action for use in Scrub in Operation Theathers best quality complete in all respect as approved by the engineer incharge	=	4 Nos. N.S @ 18500.00 Each	74000
		Total Rs: =	~~1720295~~ 1578333
		Say Rs: =	~~1720300~~ 1578900

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division,
Khanewal

DHQ Khenwal

Provision/Installation of Electrical Equipment.

S.#			Qty:	Unit	Rate	Amount
A		**L.T. (LV) SUB-STATION EQUIPMENT:**				
1		**Construction of ELECTRICAL ROOM**	1		As per requirement	
2		P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication tights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complets in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		MDB-1(For PDBs)				
		Incoming from For 630 KVA Transformer				
	(i)	LT Switchboards				
	(a)	2.50 Ft deep				
	(i)	1000A (3.0x6'x2.5')	1	each	4,372.45	196760.25
		Incoming breakers for MDB-1				
	1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 1000A(36 KA) 1*1=1	1	each	280,773.00	280773
		Outgoing breakers for MDB-1				
	(a)	Tripple Pole 100A(36 KA) 1*3=3	3	each	17,433.00	52299
	(b)	Tripple Pole 150A(36 KA) 1*4=4	4	each	18,093.00	72,372.00
	(a)	Tripple Pole 200A(36 KA) (1* 2=2)	2	each	39,813.00	79626
4		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		PDBs (For OPD & Emergeacy)				
	(a)	6" deep				
	(ii)	100A (30"x22"x6")	4	each	13,765.05	125950.2075
		Incoming Breakers for PDBs (For OPD & Emergency)				
	1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 100A(36 KA) (2*2=4)	4	each	17,433.00	69732
		Outgoing Breakers for PDBs (For OPD & Emergeacy & other small department)				
	2	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(10 KA) (2*2=4)	4	each	11,253.00	45012
	(b)	Single Pole 32A(10 KA) (6*2=12)	12	each	1,101.75	13221
	(d)	Single Pole 16A(10 KA) (7*2=14)	14	each	1,101.75	15424.5
6		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		PDBs (For wards)				
	(a)	12" deep				
	(ii)	150A (3'x3'x12")	3	each	5,131.05	138538.35
		Incoming Breakers for PDBs (For wards)				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 150A(36 KA) (1*3=3)	3	each	18,093.00	54279
		Outgoing Breakers for PDBs (For wards)				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(10 KA) (3*2=6)	6	each	1,101.75	6610.5
	(b)	Single Pole 32A(10 KA) (6*2=12)	12	each	1,101.75	13221
	(c)	Single Pole 16A(10 KA) (6*2=12)	12	each	1,101.75	13221
7		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		LDBs (For Wards)				
	(a)	6" deep				
	(ii)	63A (18"x24"x6")	8	each	18,634.00	223608
		Incoming Breakers for LDBs (For Wards)				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(36 KA) (1*8=8)	8	each	17,433.00	139464
		Outgoing Breakers for LDBs (For Wards)				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Single Pole 20A(10 KA) (3*8=24)	24		1,101.75	26442
	(b)	Single Pole 16A(10 KA) (3*8=24)	32		1,101.75	35256
	(c)	Single Pole 10A(10 KA) (6*8=48)	48		1,101.75	52884
B		**LT POWER CABLE.**				
	1	120 mm sq (37/0.083) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (For Transformer)	500	rft	4,633.45	2316725
	2	95 mm sq (37/0.072) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (For Transformer and MDB-1)	~~200~~ 300	rft	3,676.05	~~736210~~ 1090815/-
	3	50 mm sq (19/0.072") PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (For PDBs)	350	rft	1,858.65	650527.5
	4	7/1.12 mm (7/0.044") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc (For LDBs and ACs)	250	rft	160.20	40050
	5	7/0.74 mm (7/0.029") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc (for Internal Wiring of Hospital)	100	rft	86.55	8655

(09) Cable 4 Core 300 Sq MM 1090.75 12-7-2017 225/-
7/44 Single Core 788 M 1090.75 770/- 138529

S.#			Qty:	Unit	Rate	Amount
	6	3/0.91 mm (3/0.036") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc **(for Internal Wiring of Hospital)**	200	rft	79.00	15800
	7	3/0.74 mm (3/0.029") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc **(for Internal Wiring of Hospital)**	200	rft	43.20	8640
		TOTAL				~~5420301~~ 6184301
		SAY				~~5430300~~ 6184300

5568800

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

DETAILED ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL (Recepition Counter)

2nd I-Annual 2022

1 Pacca brick work in other than building in cement sand mortar ratio 1:4

	1	x	10	x	3/4	x	4	= 30 Cft
	4	x	2	x	3/4	x	4	= 24 ,,
Total								= 54 Cft
								@ 30526.30 %Cft 16484

2. P/L of Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-
(c) Type C (Nominal mix 1:2:4

	1	x	10	x	2 3/4	x	1/4	= 7 Cft
								@ 556.50 P.Cft 3829

3 Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, i/c cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-
b) deformed bars

	7	x	6.75	x	0.454			= 21 Kg
								@ 31411.60 %Kg 6622

4 1/2" thick plaster ratio 1:4 upto 20' height

	1	x	7	x	4			= 28 Sft
	3	x	2	x	2	x	4	= 48 ,,
Total								= 76 Sft
								@ 3241.60 %Sft 2464

5 Providing and laying super bquality Porcela in glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade withad hesive / bond over 3/4" thick (1:3) cement plasteri / cthe cost of sealer for finishing the jointsi / ccutting grinding complete in allrespect as approved and directed bv the Engineer Incharge.
a) Full body Glazed tiles
(ii) 600 mm x 600 mm

	1	x	10	x	4 1/4			= 43 Sft
	2	x	2 3/4	x	4 1/4			= 23 ,,
	4	x	3/4	x	4 1/4			= 13 ,,
	1	x	10	x	1/4			= 3 ,,
Total								= 81 Sft
								@ 340.50 P.Sft 27625

6 Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed,complete in all respect as approved and directed by the Engineer Incharge.
(i) 3/4" thick

	1	x	10	x	3			= 30 Sft
								@ 1308.95 P.Sft 39269

7 Providing and fixing aluminium glazed partition of anodized / powder coated using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film,rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid separately)

	1	x	10	x	2 1/2			= 25 Sft
								@ 1242.45 P.Sft 31061

8 Providing and fixing vinboard cabinet ¾" thick with drawers 3" deep in kitchen including termite proofing and polishing or painting with synthetic enamel as specified, with handles, hinges, etc: complete in all respects
I) 1-1/2' deep, without back

	1	x	10	x	2 1/2			= 25 Sft
								@ 1077.85 P.Sft 26946
								Total Rs: = 154299
								Add 3% Contingency = 4629
								Total Rs: = 158928
								Say Rs: = 158900

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detailed Estimate for Renovation / Revamping of Trauma Center in District Headquarte Hospital at Khanewal

2nd Bi-Annual 2022

1 Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge.

OT.Ground Floor	2	x	18	x	12	=	432 Sft
	1	x	18	x	18	=	324 ,,
	2	x	4 1/2	x	3/4	=	7 ,,
						Total =	**763 Sft** N.S
						@	1134.00 P.Sft 865242

2 Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by the Engineer In-charge
(b) 2.5mm thick

OT.Ground Floor

1	x	2	x(	18	+	18	)x	10 1/2	= 756 Sft
2	x	2	x(	18	+	12	)x	10 1/2	= 1260 ,,

Total = 2016 Sft N.S
@ 1890.00 P.Sft 3810240

3 Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge.
(b) Bevelled edges & flange 21.5 mm
(iii)600 mmX 600 mm

OT.Ground Floor	2	x	18	x	12	=	432 Sft
	1	x	18	x	18	=	324 ,,
						Total =	**756 Sft** N.S
						@	945.00 P.Sft 714420

Total Rs:	=	**5389902**
Add 3% Contigency	=	161697
Total Rs:	=	**5551599**
Say Rs:	=	**5551600**

Sub Engineer

Sub Divisional Officer
Byuildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detail for PCC Track

28

2nd Bi-Annual 2022

1 Dismantling and removing road metalling

1 x(30 + 30 + 20)x 6 x 1/2 = **240 Cft**

@ 2031.75 %Cft 4876

2 Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and. aggregate

Take same item No. 1 = **240 Cft**

Only Labour rate

@ 6870.00 %Cft 16488

3 Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-

i) ordinary

1 x(50 + 50 x 89)x 6 x 3/4 = **851 Cft**

@ 9016.70 %0Cft 7669

4 Supplying and filling sand under floor, or plugging in wells

1 x(50 + 50 x 89)x 6 x 1/4 = **284 Cft**

@ 2823.30 %Cft 8004

5 Providing, laying watering and ramming brick ballast 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects

189 x 6 x 1/3 = **378 Cft**

@ 9164.40 %Cft 34641

6 Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):

f) Ratio 1: 2: 4

1 x(30 + 30 + 20)= 80 Rft

1 x(50 + 50 + 89)= 189 ,,

Total = 269 Rft (A)

269 x 5 x 1/3 = **448 Cft**

@ 38126.10 %Cft 170805

7 Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels.

a) Size 1½" x 3/8" (40 x 10 mm)

50% Take qty.item No.5-A

269 x 5 x 60 / 100 = **807 Rft**

@ 19.80 P.Rft 15979

8 Providing & fixing pre cast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Streng the of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonary for drain cum footpath etc complete in all respect.

(ii) With painting

(50 + 50 + 89) = 189 Rft

Total = 189 Rft

@ 411.90 P.Rft 77849

Total Rs: = 336311

Add 3% Contigency = 10089

Total Rs: = 346400

Say Rs: = 346400

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

External Sewerage System

29

2nd Bi-Annual 2022

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawingsincluding shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-
i) O ft. to 7.0 ft. (0 to 2.10 m) depth
For 9" RCC Pipe
1 x(132 + 167 x 127)x 3 x 3 = 3834 Cft
For 12" RCC Pipe
1 x(100 + 50 x 20)x 3 x 4 = 2040 ,,

Total = 5874 Cft
@ 11740.40 %0Cft 68963

2 Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½":3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, class "L" including carriage of pipe from factory to site of work, jointing, cutting pipes where necessary, finishing and testing, etc., complete
i) 9" dia (132 + 167 + 127) = 426 Rft

Total = 426 Rft
@ 528.30 P.Rft 225056

3 Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½":3 confirming to ASTM specification C-76-79, Class II wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.
i) 12" dia (100 + 50 + 20) = **170 Rft**
@ 695.60 P.Rft 118252

5 Rehandling of earthwork:
a) Lead upto a single throw of Kassi, phaorah or shovel
Take qty.item No.1 = **5874 Cft**
@ 2539.70 %0Cft 14918

6 Construction of Circular Man-Holes 5-1/2' dia depth (Anyalsis attached) = **6 Nos.**
44900.00 Each 269400

7 Construction of Hozi 1-1/2'x1-1/2'x1-1/2' size (Anyalsis attached) = **7 Nos.**
9000.00 Each 63000

8 Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect = **10 Nos.**
15108.75 Each 151088

Total Rs: = 910677

Add 3% Contigency = 27320

Total Rs: = 937997

Say Rs: = 938000

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detail for Construction of Man Hole 4' Dia 5-1/2' Depth

2nd Bi-Annual 2022

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, & removing surface water, in all types of soil except shingle, gravel and rock:-
i) O' to 7' depth

3.142 x 6 1/2 x 6 1/2 x 1/4 x 4 = **133 Cft**
@ 11740.40 %0Cft 1561

2 Cement concrete brick or stone ballast 1½ " to 2" gauge, in foundation and plinth:-
a) Ratio 1:6:18

3.142 x 6 1/2 x 6 1/2 x 1/4 x 1/2 = **17 Cft**
@ 20943.25 %Cft 3560

3 Pacca brick work ratio 1:4 Other than Building in cement sand mortar

3.142 x 4 3/4 x 3/4 x 1 1/2 = 17 Cft
3.142 x (4 3/4 + 2.58 / 2) x 3/4 x 3 = 26 ,,
Total = 43 Cft
@ 30526.30 %Cft 13099

4 Extra for Circular Masonary

3.142 x 4 3/4 x 3/4 x 1 1/2 = 17 Cft
3.142 x (4 3/4 + 2.58 / 2) x 3/4 x 3 = 26 ,,
Total = 43 Cft
@ 2634.00 %Cft 1130

5 1/2" thick cement sand plaster ratio 1:4

3.142 x (5 1/2 + 3.333 / 2) x 5 1/2 = 76 Sft
Total = 76 Sft
@ 3241.60 %Sft 2474

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

3.142 x 2 7/12 x 3/4 x 1 1/2 = 9 Cft
3.142 x 2 7/12 x 3/4 x 1/2 = 3 '
12 Cft
@ 38126.10 %Cft 4575

7 Extra for making and finishing benching floor work in manhole chamber, with 1/8" thick cement finish.

3.142 x 4 x 4 x 1/4 = **13 Sft**
@ 5262.95 %Sft 684

8 Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.

= **4 No.**
@ 590.85 Each 2363

9 Rehandling of earthwork:
a) Lead upto a single throw of Kassi, phaorah or shovel
80% Take qty.item No. 1

= **133 Cft**
@ 2539.70 %0Cft 338

10 Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect in all respect

= **1 No.**
@ 15108.75 Each 15109

Total Rs: = 44894

Say Rs: = 44900

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detail for Construction of Hozi 1-1/2' x 1-1/2' x1-1/2'

(31)

2nd Bi-Annual 2022

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-

i) O' to 7' depth 1 x 3 x 3 x 1 = **9.00 Cft**
@ 11740.40 %0Cft 106

2 Cement concrete brick or stone ballast 1½ " to 2" gauge, in foundation and plinth:-
A) 1:6:12
In bed 1 x 3 x 3 0.5 = **4.50 Cft**
@ 20943.25 %Cft 942

3 Pacca brick work other than buildings upto 10' height cement sand mortar ratio 1:4

2 x 3 x 0.75 x 1.5 = 6.80 Cft
2 1.5 x 0.75 x 1.5 = 3.40 ,,
Total = **10.20 Cft**
@ 30526.30 %Cft 3114

4 Cement sand plater 1/2" thick upto 20' height Ratio 1:4

1 x 2 x(3 + 3)x 0.8 = 9.00 Sft

Total = **9.00 Sft**
@ 3241.60 %Sft 292

5 Cement sand plater 3/4" thick upto 20' height Ratio 1:4

1 x 2 x(1.5 + 1.5)x 2.3 = 13.50 Sft

Total = **13.50 Sft**
@ 4373.00 %Sft 590

5 Applying floating coat of neat cement 1/32" thick

1 x 2 x(1.5 + 1.5)x 1.5 = 9 Sft
@ 1835.90 %Sft 165

6 P/L of Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-
(c) Type C (Nominal mix 1:2:4

1 x 3 x 3 x 0.25 = 2.30 Cft
@ 556.50 P.Cft 1280

7 Fabrication of mild steel reinforcement for cement concrete, i/c cutting, bending, laying in position, making joints and fastenings, i/ccost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-
b) deformed bars

2.30 x 6.75 x 0.45 = **7.00 Kg**
@ 31411.60 %Kg 2199

8 Cement concrete plain including placing, compacting, finishing and curing complete (i/c screening and washing of stone aggregate):
f) Ratio 1: 2: 4

1.5 x 1.5 x 0.25 = **0.56 Cft**
@ 38126.10 %Cft 214

9 Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.

1 x 1.5 x 1.5 = **2 Sft**
@ 2934.10 %Sft 67

10 Rehanadling of earth lead upto single throgh of kassi = **9.00 Cft**
Take qty item No.1
@ 2539.70 %0Cft 23

Total Rs. **8993**

Say Rs: **9000**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division

Detail for D/d Cost of Old Material

32

2nd Bi-Annual 2022

1- Collapcible gate			
i) 7-3/4 x 8-1/2 size	=	**1 Nos.** @ 5000.00 Each	5000
ii) 9-3/4 x 9-3/4 size	=	**2 Nos.** @ 6000.00 Each	12000
iii) 7 x 10 size	=	**1 Nos.** @ 5000.00 Each	5000
iv) 8 x 8-1/2 size	=	**1 Nos.** @ 5500.00 Each	5500
2 Deodar wood door			
i) 7-1/2 x7 size	=	**43 Nos.** @ 2000.00 Each	86000
ii) Solid Flush leave only not useable	=	**3 Nos.** @ 500.00 Each	1500
3 M.S box windows (not useable)			
i) 6x6 size	=	**32 Nos.** @ 2000.00 Each	64000
ii) 6x8 size	=	**2 Nos.** @ 2500.00 Each	5000
iii) 4-1/2x5-1/2 size	=	**7 Nos.** @ 1800.00 Each	12600
iv) 8 x 7-1/2 size	=	**2 Nos.** @ 3000.00 Each	6000
v) 7-1/8 x 5-1/2 size	=	**5 Nos.** @ 2000.00 Each	10000
4 C.Windows			
i) 6x3 size	=	**9 Nos.** @ 1500.00 Each	13500
5 Old Tile 9"x4-1/2"x1-1/2"			
1944 x 3.5 x 50 / 100	=	**3402 Nos.** @ 3500.00 %Nos.	11907
		Total Rs: =	**238007**
		Say Rs: =	**238000**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Analysis of Rate:-

Providing and Laying Anti-microbial Floor (Gerflor Flooring), Anti-Bacterial, Anti-Static,Homogeneous, with best abrasion resistance,best indoor air quality, easy maintenance, No wax for life and high stain resistance, High performance homogeneous flooring, Resistant to main chemical products used in healthcare, Installed with Self leveling compound, complete in all respects and as approved by the Engineer Incharge.

Analysis Purpose---------- 10x10 = 100 Sft
Unit ----------P.Sft
2nd Bi-Annual 2022

a Providing and Laying Anti-microbial Floor (Gerflor Flooring), Anti-Bacterial, Anti-Static,Homogeneous, with best abrasion resistance,best indoor air quality, easy maintenance, No wax for life and high stain resistance, High performance homogeneous flooring, Resistant to main chemical products used in healthcare, Installed with Self leveling compound, complete in all respects and as approved by the Engineer Incharge.

Thickness = 2mm

1x10x10	=	100 Sft			
5% wastages	=	5 ,,			
Total		**105 Sft**			
		@	900 P.Sft		94500
			Total	**Rs:**	**94500**
Add 20% contractor's profit and OHC				Rs:	18900
			G.Total	**Rs:**	**113400**

Rate P.Sft 113400 / 100 = 1134 P.Sft

Say Rs: = 1134 P.Sft

Sub Engineer

Sub-Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

(34)

Analysis of Rate:-

Providing And Laying Non-porous Ceiling System, Aluminum Dampa Ceiling having Thickness: 0.7mm and Size: 600mm x 600mm in OTs complete in all respects and as approved by the Engineer Incharge.

Analysis Purpose---------- 10x10 = 100 Sft
Unit ----------P.Sft
2nd Bi-Annual 2022

a Providing And Laying Non-porous Ceiling System, Aluminum Dampa Ceiling having Thickness: 0.7mm and Size: 600mm x 600mm.

1x10x10	=	100 Sft			
5% wastages	=	5 ,,			
Total		**105 Sft**			
		@	750 P.Sft		78750
			Total	**Rs:**	**78750**
Add 20% contractor's profit and OHC				Rs:	15750
			G.Total	**Rs:**	**94500**

Rate P.Sft 94500 / 100 = 945 P.Sft

Say Rs: = 945 P.Sft

Sub Engineer

Sub-Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Analysis of Rate:-

35

Providing And Laying Anti-microbial wall panelling/ cladding SPM Walls Panels that Can Resists to heavy impacts, Non-porous & 100% Antibacterial material suitable for high infection risk areas, Welded joints for perfect water tightness between panels or with vinyl flooring, Resists to standard cleaning, disinfection and antiseptic products, Heavy traffic resistant, Sustainable formulation complete in all respects and as approved by the Engineer Incharge.

Analysis Purpose---------- 10x10 = 100 Sft
Unit ----------P.Sft
2nd Bi-Annual 2022

a Providing And Laying Anti-microbial wall panelling/ cladding SPM Walls Panels that Can Resists to heavy impacts, Non-porous & 100% Antibacterial material suitable for high infection risk areas, Welded joints for perfect water tightness between panels or with vinyl flooring, Resists to standard cleaning, disinfection and antiseptic products, Heavy traffic resistant, Sustainable formulation

1x10x10	=	100 Sft			
5% wastages	=	5 ,,			
Total		**105 Sft**			
		@ 1500 P.Sft			157500
			Total	**Rs:**	**157500**
Add 20% contractor's profit and OHC				Rs:	31500
			G.Total	**Rs:**	**189000**

Rate P.Sft 189000 / 100 = 1890 P.Sft

Say Rs: = 1890 P.Sft

Sub Engineer

Sub-Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

ANALYSIS OF RATE FOR THE ITEM

Providing And Laying Non-Slippery Porcelain Tiles /Checker Tile For Flooring (12"X12" Size) Light Polished Sb, Laid Over Cement Sand Mortar (Ratio 1:2) 3/4"-Thick I/C Filling Joints With White Cement, Complete In All Respects And As Approved By The Engineer Incharge

Take 100 Sft for analysis purpose.
UNIT OF RATE = P-SFT

Sr. No:	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.					
1	Non-Slippery Tile 12"x12" LPF Series Light Color (Rectified)SB CA(1) 5 P.51/98	100 Sft		1347	P.Mtr.
	ADD 5% WASTAGE	5 Sft			
		105 Sft	P-Sft	125.14	13139.75
2	White Cement (06.009)	0.1 Bag	P-Bag	1550	155.00
3	Grey Cement (06.008)	2.16 Bag	P-Bag	1020	2203
4	Pigment. (10.015)	0.3 Kg	P-Kg	130	39.00
5	Sand (06.007)	5 Cft	% Cft	4200	210.00
	TOTAL - A				**15746.95**
B) LABOUR					
	i) MASON (LB-040)	1.95 Nos	P-Day	1250	2437.50
	ii) COOLY (SKILLED) (LB-024)	3.9 Nos	P-Day	1250	4875.00
	iii) Bahishti (LB-017)	0.5 No	P-Day	969	484.50
	10% SUNDRIES				779.70
	TOTAL - B				**8576.70**
	G- TOTAL (A+B)				**24323.65**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES				4864.73
	OVER ALL TOTAL				**29188.38**

RATE PER Sft = 291.88

Say Rs: = 292/- P. Sft

CERTIFICATE

1- Certified that input rates of material and labour for the item at serial No. 1-5 & i-iii are as per input rates displayed on web site of Finance Department for **2nd Bi-Annual 2022.**

2- Certified that rates for items at serial No. ____ is not available on the web site of Finance Department for **2nd Bi-Annual 2022** and as such the rate of Rs: 292/- has been applied after ascertaining it, form the market.

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

RATE ANALYSIS FOR

Making And Fixing Pvc Doors 1-1/2" Thick Consisting Of Pvc Frame And Pvc Leaves I/C Hinges Complete In All Respects As Approved Design /Color By The Engineer Incharge

Unit = P.Sft

Taking = 2-1/2x7 = 17.5-Sft

Based on 2nd Bi-annual 2022

Sr. No:	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.					
1	Provision of PVC Frame and Leaf i/c fitting screws (Leaf up-to 7` height) i/c carriage of material	17.5 Sft			
		17.5 Sft	P-Sft	650.00	11375
2	Providing of full hing of door leave	6.875 Rft			
		6.875 Rft	P-Rft	50.00	344
3	Cost of Screwes/ Holdfast	1 Job			
		1 Job	P.Job	250.00	250
	TOTAL - A				**11969.00**
B) LABOUR					
	i) Carpenter	0.25 No.	P-Day	1250	312.50
	ii) Helper	0.5 No.	P-Day	962	481.00
	10% SUNDRIES				79.35
	TOTAL - B				**872.85**
	G- TOTAL (A+B)				**12841.85**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES				2568.37
	OVER ALL TOTAL				**15410.22**

RATE PER Sft = 880.58

Say Rs: = 880/- P. Sft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

RATE ANALYSIS FOR

Making And Fixing Stainless Steel Clading 20-Swg I/C Fixing With Screws On Columns Complete In All Respects And As Approved By The Engineer Incharge

Unit = P.Rft
Taking = 20-Sft

2nd Bi-Annual 2022

Sr. No:	DESCRIPTION OF ITEMS		QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.						
1	P /O Stainless Steel Sheet 20-SWG					
		4x5	20 Sft			
	Add 5% Wastage		1 Sft			
			21 Sft	P.Sft	820.00	17220
2	Cost of Rowel Plugs					
		1x18	18 Nos			
			18 Nos	Each	10.00	180
3	Cost of Stainless Sankan Head Screws 1-1/2" Long					
		1x8	8 Nos			
			8 Nos	Each	5.00	40
	TOTAL - A					**17440.00**
B) LABOUR						
	i) Labour For Cutting Strip		2 No.	Each	25	50.00
	ii) Labour for Bending Strip		1 No.	(L.S)	25	25.00
	iii) Labour for drilling Hole		8 No.	(L.S)	20	160.00
	iiv) Labour for fixing Each angle		1 No.	(L.S)	20	20.00
	10% SUNDRIES					25.50
	TOTAL - B					**280.50**
	G- TOTAL (A+B)					**17720.50**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES					3544.1
	OVER ALL TOTAL					**21264.60**

RATE PER Rft = 1063.23

Say Rs: = 1060/- P. Sft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

ANALYSIS OF RATE FOR THE ITEM

Supply & Installation of Phillips, LED Panel Light 24"x24" (RC 091 LED 38S / 865 40-W) in Fasle Ceilign of approved manufacturer i/c cost of all labour & material complete, as approved by the Engineer Incharge.

Detail of Cost=1-No.

Unit = Each

2nd Bi-annual 2022

A	**Material**					
1	Phillips, LED Panel Light 24"x24" (RC 091 LED 38S / 865 40-W)	1	No	Each	11000	11000
					Total "A"	**11000**
B	**Labour**					
1	Labour for fixing / installation.	1	No	Each	1350	1350
					Total "B"	**1350**
					Total Cost ="A"+"B" =	**12350**
	Add 20% Contractor's Profit & Overhead charges on Rs.	12350	/-			2470
					Grand Total: =	**14820**

Unit Rate P Sft = 14820 / 1 14820 Each

SAY 14800 Each

1 Certified that input rates of material and labour for the item at serial No. Nil are as per input rates displayed on web site of Finance Department for **2nd BI-Annual 2022**

2 Certified that rates for items at serial No. except all above are not available on the web site of Finance Department for **2nd BI-Annual 2022** and based on prevailing Market Rates.

SUB ENGINEER

SUB DIVISIONAL OFFICER
Bldgs: Sub Division
Khanewal

Executive Engineer
Building Division
Khanewal

Abstract of Cost

Name of DHQ Hospital	Khanewal					
Scope of work	Orignal			1st Revised		
	Capital	Revenue	Total	Capital	Revenue	Total
Capital component						
Internal Development	29.456	0.000	29.456	44.090	0.000	44.090
External Development	17.459	0.000	17.459	4.848	0.000	4.848
Water filtration plant	2.908	0.000	2.908	0.000	0.000	0.000
Total Capital Component	**49.823**	**0.000**	**49.823**	**48.938**	**0.000**	**48.938**
Revenue component						
Human resource (HR) plan	0.000	**25.440**	25.440	0.000	56.372	**56.372**
Total Revenue component	**0.000**	**25.440**	**25.440**	**0.000**	**56.372**	**56.372**
Grand Total	**49.823**	**25.440**	**75.263**	**48.938**	**56.372**	**105.310**

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**			**1,059,000**	**1,401,000**	**43,431,000**
				25.440					**43.431**
Utilization of HR Component				**12.941**					
									56.372

REG

80

☎ 061-9200384-5

OFFICE OF THE SUPERINTENDING ENGINEER
BUILDINGS CIRCLE MULTAN.

To

The Director Infrastructure,
Project Management Unit,
Primary & Secondary HealthCare Department,
Lahore.

No. 2168 **/DB** **Dated** 18 / 08 /2022.

Subject: **ROUGH COST ESTIMATE FOR THE SCHEME "RENOVATION / REVAMPING OF DISTRICT HEAD QUARTER HOSPITAL AT KHANEWAL ADP NO.658/2022-23".**

The Rough Cost Estimate dully vetted for amounting to **Rs.48.938 (M)** for the work cited as subject Prepared on the basis of Plinth Area Rates /MRS 2nd Bi-Annual 2022 (District Khanewal) for arranging Administrative Approval and funds from the competent forum please.

DA/ Estimate

Superintending Engineer
Buildings Circle M u l t a n

Endst: No. 2169 **/DB** **Dated** / /2022.

A copy is forwarded for information to the:

1. Executive Engineer, Buildings Division Khanewal with reference to his letter No. 1061/DB dated:10-08-2022.

DA/Nil:

RECEIVED
Diary No. 9395
Date: 24-08-22
PMU, P & SH

Deputy PD	
F & A	
Procurement	
Infrastructure	✓
Planning & HR	
IT	
Operations C/N/S	
H[illegible] Specialist	
[illegible] RC	
[illegible]	

Superintending Engineer
Buildings Circle M u l t a n

GOVERNMENT OF THE PUNJAB

BUILDINGS DIVISION KHANEWAL

ROUGH COST ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL.

ESTIMATED COST: Rs: 48.938 (M)

BUILDINGS SUB DIVISION KHANEWAL

ROUGH COST ESTIMATE FRAMED IN THE OFFICE OF THE EXECUTIVE ENGINEER BUILDINGS DIVISION, KH ANEWAL FOR THE WORK " IMPROVEMENT / REHABILITATION OF DISTRICT HEAD QUARTER HOSPITAL AT KHANEWAL .2022-23

Reference. As per meeting agenda of Project Management Unit P&S Health Care Department Government of the Punjab Lahore Dated.18-07-2022.

HISTORY:

The Government of the Punjab is taking venous measures to improve healthcare facilities for the people of the Punjab at primary. Secondary and Treasury Level Therefore in order to improve infrastructure at Secondary level District Head Quarter Hospital, a scheme Titled Programme for Revamping of all DHQ Hospitals in Punjab (ADP No.658/2022-23) was introduced in the Annual Development Program 2022-23. One of the Hospitals in this programme is the District Head Quarter Hospital (DHQ)Khanewal.

In order to decide the scope of work for the Revamping and Renovation of DHQ Hospital Khanewal, a kick-off meeting was held at DHQ Hospital Khanewal. Which was attended by the concerned officials from PMU P&S Health Department, concerned officials of Buildings Department of C&WD and Admin officer of DHQ Hospital Khanewal. During the meeting It came forth that a portion of the Hospital has already been revamped by the IDAP, In such case, the written approval would be given by PMU Ultimately. A detailed scope of work, for the non-revamped areas, was decided documented and communicated to Buildings Department officials, (Minute of the meeting attached herewith)

Keeping in view the detailed scope of work identified by the P&SHD PMU Rough cost estimate amounting to **Rs.48.938 (M)** is prepared on MRS/Plinth Area Rates for 2nd BI-Annual 2022 is submitted herewith for vetting and onward submission for the grant of Administrative Approval from the relevant Competent Authority.

DESIGN & SCOPE OF WORK:

The following provisions have been made in the estimate (**adopted as Per desired / direction of meeting agenda PMU**) which is as under:- (copy of meeting agenda of PMU attached)

1. Revamping of Main Building.
2. Reception Counter
3. Revamping of Trauma Center.
4. Provision of PCC Track
5. Improvement of Sewerage System.

SPECIFICTION:

The work shall be carried out according to P.W.D. specification through approved contractor after calling competitive tender as per satisfaction of the Engineer Incharge.

RATE:

The rate provided in this estimate as per MRS rates as standardized by the Finance Department Punjab Lahore for 2nd BI-annual 2022

COST:

Total cost of estimate comes to Rs. amounting to **Rs.48.938 (M)**

TIME:

It will take about 18 month to complete the work from the actual date of commencement.

Jawad

Sub Divisional Officer
Buildings Sub Division Khanewal.

Executive Engineer
Buildings Division ,Khanewal

MINUTES OF MEETING

Communication & Works Department

Meeting Title/Project: Kick-off Meeting DHQ Khanewalwith PMU Team

Date: 18/07/2022 **Time:** 10:00

Location: DHQ Hospital Khanewal

ATTENDEES

NAME	Designation
Mr. Hamza Naseem	Project Manager (Civil), PMU
Mr. Saad Zulfiqar	Consultant (Electrical), PMU
Mr. Majid Hameed Chugtai	Executive Engineer Building Department Khanewal.
Mr. Javed	Sub-Divisional Officer (building), C&W

MINUTES

Sr #	AGENDA ITEM	Remarks
1	**Meeting Agenda:** 1. Introduction of Teams 2. Generalized Site Decisions 3. Specified Instructions Area-wise 4. Priority of work	
2	***1. Introduction:*** Mr. Hamza Naseem, Project Manager Civil, led the kick-off meeting for DHQ Khanewal. He introduced his team to C&W and Hospital staff. Mr. Majid Hammed, Executive Engineer C&W, introduced the teams to PMU Health Department and brief the purpose of Visit. He also informed the Representative of C & W that any civil or electrical work in already revamped areas should not be executed. In case if any such work is required to be done in already revamped area by IDAP, it must be carried out after written approval from PMU.	
3	***2. Generalized Site Decision:*** **2.1 Internal Development(To be Executed in Unrevamped Areas)** **a. Flooring and Skirting/Dado** Flooring and dado should be fixed in areas where existing tiles are damaged/ broken. **b. Paint** Paint work should be done in all areas and on all doors (exceptions are mentioned in following points) **c. Windows** All damaged windows should be replaced/repaired **d. Doors** All damaged doors should be replaced/repaired or existing wooden doors should be repainted. **e. UPVC doors** All washrooms (used for patient/attendants) should be replaced with UPVC doors.	

	f. Seepage Mitigation All the areas facing seepage issues need to be assessed to locate the seepage source and necessary action may be taken accordingly. **g. Water Proofing** Water Proofing on entire Hospital Clinical building and cleaning all blockages of storm water lines. Water proofing of brick tiles should be proposed to avoid extra load on Hospital Building for its structural stability. **2.2 External Development** **a. Sewerage System** C&W to assess the existing sewerage system and worked accordingly as per requirement. **b. Water Supply System** Assessment of existing water supply system and rectification required to be done as per Hospital Requirement. **c. Water supply system from Filtration Plant** Moreover, location for Water points/connection for drinking water in hospital building will be provide by hospital administration to C& W and water supply line will lay accordingly. **d. Roads** Existing Road conditions need to be re-assessed prior starting execution.	
4	***3. Specified Instructions Area-wise*** The following general decision were taken for DHQ Khanewal **3.1 Internal Development** **a. OPDBlock** • Antiskid tiles to be fixed on ramp at entrance with SS railing on it. • Full body porcelain tiles to be fixed on Podium. • Marble to be fixed on steps at Entrance. • In Entrance Hall where red tiles exist at present needs to be replaced with full body porcelain tiles and wall/dado full body porcelain tiles up to height of 6 ft. • Collapsible door at entrance needs to be replaced with Aluminum door half solid and half glass. • In main corridor all floor tiles need to be replaced with full body porcelain tiles all wall/dado tiles need to be retained. • Reception counters to be made as per C&W standards. • Wooden Hoarding/Partition done needs to be removed. **b. Gyane Block** • Ramp leading to first floor Antiskid tiles need to be fixed with railing to be retained and only needs to be repainted. • Stairs leading to First floor marble needs to be fixed on steps with railing to be retained and only needs to be repainted. • All floor and wall/dado tiles to be retained in Reception area. Only Main corridor floor and wall/dado tiles need to be replaced with full body porcelain tiles as per C&W standards.	

(6)

	Aluminum doors half solid and half glass. • All floor and wall/dado tiles up to height of 6 ft. full body porcelain needs to be fixed in Eye block corridor, wards and full body porcelain tiles inside rooms with 6" skirting. • Two washrooms in eye department to be revamped completely along with the replacement of existing doors with UPVC doors. **3.2 External Development** a. External sewerage of the Clinical Hospital building is functional only sludge removal/ cleaning needs to be done. b. Weather shield on east west and front side of main Hospital Building. c. All Existing MS windows at front elevation of Hospital to be replaced with Aluminum windows as per the standards followed by IDAP. d. 5 ft. wide PCC track with Kurb stones at it sides other than main roads crossing points need to be made along shoulders of roads for wheel chair stature movement for shifting patients from Trauma Center to Main Block and Gyane. e. Water Proofing/ Roof Treatment of entire old block. f. All Expansion joints to be treated from roof by making brick wall on sides and covering with slabs and properly sealing gaps between slabs.	
5	***4. Priority of work*** **4.1 Priority 1** **3.1 a, b ,c, d, e, f, g. 3.2 b, c, d, e, f.** **4.2 Priority 2** **Nil** **4.3 Priority 3** **Nil**	

ROUGH COST ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL.

Sr. No.	Description of item	Plinth area/ Quantity	(As per MRS/ Plinth Area Rates 2nd Bi-Annual 2022)					Unit	Amount	Remarks
			Rate	P.H	E.I	S.Gas	Total			
1	2	3	4	5	6	7	8	9	10	11
1	Renovation / Revamping of Main Building	1 Job.	37743900 ~~39214800~~	--	--	--	37743900 ~~39214800~~	P.Job	37743900 ~~39214800~~	Detail attached
2	Receiption Counter	5 Job	158900	--	--	--	158900	P.Job	794500	Detail Attached
3	Renovation / Revamping of Trauma Centre	1 Job	5551600	--	--	--	5551600	P.Job	5551600	Detail Attached
4	Provision of PCC Track	1 Job	346400	--	--	--	346400	P.Job	346400	Detail Attached
5	Provision External Sewerage System	1 Job	938000	--	--	--	938000	P.job	938000	Detail attached
6	Construction of Electric Pannel Room (17'4"x20'4")	349 Sft	3605	—	227	—	3832		1337368	"
	~~Add 10% Contingencies~~ ~~Add 10% Ext. Development~~ Add 10% External Development on Rs 1337368/=								46711768 133737 ~~46845300~~ 46845505	
	TOTAL RS:									
	D/d Cost of Old Material							(-)	238000	
	TOTAL RS:								~~46607300~~ 46607505	
	Add 5% PRA Tax								2330375 ~~2330365~~	
	G. TOTAL RS.								4893788/- ~~48937665~~	
	SAY RS.								**48.938 (M)**	

vetted for Rs. 48.938 (M)

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Superintending Engineer
Building Circle Multan

ROUGH COST ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL.

(ABSTRACT OF COST)

Sr. No.	Description of work	Amount	Remarks
1.	**Main Buildings DHQ Hospital**		
	a) Building Portion	~~30922000~~	
	b) Public Health Installation	1578300 ~~1720300~~	
	c) Electric Installation	6184300 ~~5430300~~	
	TOTAL RS:	~~38072600~~ 36644600	
	Add 3% Contigency	1099338/- ~~1142178~~	
	TOTAL RS:	~~39214778~~ 37743938/-	
	SAY RS:	~~39214800~~ 37743900/-	

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

Detailed Estimate for Renovation / Improvement of District Headquarte Hospital at Khanewal

2nd Bi-Annual 2022

1 Removing door with chowkat

Collapcible gate	=	5 Nos.	
wooden door	=	7 ,,	
Lav.	=	20 ,,	
,,	=	4 ,,	
ward	=	2 ,,	
bath	=	9 ,,	
wc bath	=	4 ,,	
Ege Block Bath	=	~~3~~ ½	
Total	=	**~~54~~ Nos.**	23652/-
	@	438.00 Each	~~22338~~

2 Removing window sky light with chowkat

OPD	=	26 Nos.	
Out side front Cw	=	4 ,,	
Radiolegy Cw frist floor	=	3 ,,	
Ground Floor + Frist Floor	=	28 ,,	
	=	~~0~~ ,,	
Total	=	**65 ~~70~~ Nos.**	22198/-
	@	341.50 Each	~~23905~~

3 Dismantling brick or flagged flooring

	1	x 20	x 25	=	500 Sft
	1	x 18	x 35	=	630 ,,
	1	x 22	x 37	=	814 ,,
Total				=	**1944 Sft**
				@	863.50 %Sft 16786

4 Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 50 ft (15 metre).
Take qty.item No.3

	1944	x	5/12	=	809 Cft
Total				=	**809 Cft**
				@	5587.30 %0Cf 4520

5 Dismantling glazed encaustic tiles

Stair step	2	x 22	x 4 1/2	x 1	=	198 Sft	
Rise	2	x 25	x 4 1/2	x 1/2	=	113 ,,	
Opp trad	2	x 22	x 4 1/2	x 1	=	198 ,,	
Rise	2	x 25	x 4	x 1/2	=	100 ,,	
Landing	2	x 2	x 4	x 4 1/4	=	68 ,,	
East side Ent.step	3	x 27	x 1		=	81 ,,	
	3	x 27	x 1/2		=	41 ,,	
	5	x 20	x 1		=	100 ,,	
	5	x 20	x 1/2		=	50 ,,	
	1	x 11	x 12 1/2		=	138 ,,	
G.F OPD tarrace	1	x 21 1/8	x 13		=	275 ,,	
G.F Ent. Hall	1	x 22 1/4	x 39 1/4		=	873 ,,	
waiting area	1	x 26 3/4	x 26 1/4		=	702 ,,	
Ent. Plate form	1	x 27	x 12 1/8		=	327 ,,	
waiting area	1	x 61 7/8	x 25 7/8		=	1601 ,,	
	1	x 46 1/8	x 9 5/6		=	454 ,,	
	2	x 17	x 9 3/4	x	=	332 ,,	
	2	x 3	x 3 1/2	x 5	=	105 ,,	
	2	x 2	x 3 1/2	x 5	=	70 ,,	
	2	x 17	x 9 5/6		=	334 ,,	
	2	x 3	x 3 1/2	x 5	=	105 ,,	
	2	x 2	x 3 1/2	x 5	=	70 ,,	
	1	x 32	x 17		=	544 ,,	
	1	x 21	x 17		=	357 ,,	
	1	x 21	x 17		=	357 ,,	
F.Floor	4	x 21	x 17		=	1428 ,,	

				1	x(	100	+	97 1/2	)x	7 1/2	= 1481 Sft
				1	x(	100	+	97 1/2	)x	6 3/4	= 1333 ,,
	4	x	2		x(	21	+	17	)x	5 1/2	= 1672 ,,
	1	x	2		x(	32	+	17	)x	5 1/2	= 539 ,,
	2	x	2		x(	21	+	17	)x	5 1/2	= 836 ,,
	2	x	2		x(	17	+	9 3/4	)x	5 1/2	= 589 ,,
	2	x	10		x(	3 1/2	+	5	)x	5 1/2	= 935 ,,
	2	x	10		x(	3 1/2	+	5	)x	5 1/2	= 935 ,,
G.F Coridor	1	x	2		x(	100	+	97	)x	5 1/2	= 2167 ,,
F.F	1	x	2		x(	100	+	97 1/2	)x	5 1/2	= 2173 ,,
OPD landing bed floor											
				2	x	18 5/8	x	18			= 671 ,,
				1	x	22 1/2	x	18			= 405 ,,
	2	x	2		x(	18 5/8	+	18	)x	5 1/2	= 806 ,,
	1	x	2		x(	22 1/2	+	18	)x	5 1/2	= 446 ,,
Toilets				1	x	7 1/2	x	9 1/2			= 71 ,,
				2	x	8 1/4	x	4			= 66 ,,
				1	x	6 7/8	x	6			= 41 ,,
				1	x	7 1/2	x	9 1/2			= 71 ,,
				2	x	7 3/4	x	9 3/4			= 151 ,,
	2	x	2		x(	7 1/2	+	9 1/2	)x	5 1/2	= 374 ,,
	2	x	2		x(	8 1/4	+	4	)x	5 1/2	= 270 ,,
	1	x	2		x(	6 7/8	+	6	)x	5 1/2	= 142 ,,
	2	x	2		x(	7 3/4	+	9 3/4	)x	5 1/2	= 385 ,,
				10	x	19	x	1 1/2			= 285 ,,
				10	x	19	x	1 1/4			= 238 ,,
				10	x	17	x	1 1/4			= 213 ,,
skirting OT	1	x	2		x(	21	+	17 1/2	)x	5	= 385 ,,
	1	x	1		x(	11 1/2	+	8 1/4	)x	5	= 99 ,,
	1	x	2		x(	12	+	21	)x	5	= 330 ,,
	1	x	2		x(	29	+	25	)x	5	= 540 ,,
	1	x	2		x(	21	+	17 1/2	)x	1/2	= 39 ,,
Office	1	x	2		x(	17 1/2	+	11	)x	1/2	= 29 ,,
	1	x	2		x(	11	+	17 1/2	)x	1/2	= 29 ,,
	1	x	2		x(	5	+	7	)x	1/2	= 12 ,,
	1	x	2		x(	10	+	10	)x	1/2	= 20 ,,
	1	x	2		x(	5	+	7	)x	5	= 120 ,,
	1	x	2		x(	17 1/2	+	22	)x	5	= 395 ,,
	1	x	2		x(	11 1/2	+	10	)x	1/2	= 22 ,,
				2	x	26 3/4	x	5 1/2			= 294 ,,
				2	x	39 1/4	x	5 1/2			= 432 ,,
	1	x	2		x(	61 7/8	+	25 7/8	)x	5 1/2	= 965 ,,
				1	x	12	x	7			= 84 ,,
				1	x	21	x	7			= 147 ,,
				1	x	29	x	7			= 203 ,,
				1	x	25	x	7			= 175 ,,
OT				1	x	21	x	17 1/2			= 368 ,,
				1	x	11 1/2	x	8 1/4			= 95 ,,
				2	x	19 1/2	x	11			= 429 ,,
				1	x	5	x	7			= 35 ,,
				1	x	10	x	10			= 100 ,,
				1	x	5	x	7			= 35 ,,
OPD				1	x	17 1/2	x	22			= 385 ,,
N.S				1	x	11 1/2	x	10			= 115 ,,

Total = 32194 Sft

Deduction

20	x	2 1/2	x	5 1/2	= 275 Sft
4	x	3	x	5 1/2	= 66 ,,
12	x	5	x	5 1/2	= 330 ,,
3	x	8	x	5 1/2	= 132 ,,
1	x	25 7/8	x	5 1/2	= 142 ,,
4	x	4	x	5 1/2	= 88 ,,

Total = 1033 Sft

Net Total (32194 - 1033) **= 31160 Sft**

@ 2335.85 %Sft 727861

(SA) Bitumen tiles laid on prepared floorings

Type of tile			
	1+p+2.5	@ 500	Sft
	1×18×38	@ 630	"
	1×22×37	@ 814	"

Total @ 1955 Sft

@ 863/50 /sft Rs 17782/-

6 Single layer of tiles 9"x 4½"x1½" laid over 4" earth and 1" mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. Per %sft. Or 1.72 Kg/Sq.m bitumen coating sand blinded i/c polyhtene sheet 500 gauge

	1	x 20	x 25	=	500 Sft
	1	x 18	x 35	=	630 ,,
	1	x 22	x 37	=	814 ,,
			Total	=	1944 Sft
				@	11928.7 %Sft 231894

7 Khuras on roof 2'x2'x6" (600x600x100mm)

= 5 Nos.
@ 854.35 Each 4272

8 Petty Repair to main rooms

= ~~30~~ 80 Nos. 33500
@ 1116.65 Each ~~89332~~

9 Petty Repair to small rooms

= ~~25~~ ~~60~~ Nos. 13956
@ 558.25 Each ~~33495~~

10 Petty Repair to Verandah

= ~~10~~ ~~20~~ Nos. 10620
@ 1062.00 Each ~~21240~~

11 Distempering one coat on old surface (Ceiling)

F.F Ward	1	x	17	x	9 5/6	= 167 Sft
	1	x	20 7/12	x	16 7/8	= 347 ,,
	1	x	20 1/12	x	16 7/8	= 339 ,,
	1	x	20 11/12	x	16 3/4	= 350 ,,
	1	x	21 1/6	x	16 11/12	= 358 ,,
Nursing Station	6	x	16 11/12	x	9 5/6	= 998 ,,
	1	x	16 11/12	x	10	= 169 ,,
Ward	6	x	16 11/12	x	9 5/6	= 998 ,,
	1	x	16 11/12	x	10	= 169 ,,
	6	x	16 11/12	x	9 5/6	= 998 ,,
	1	x	16 11/12	x	10	= 169 ,,
	1	x	31 11/12	x	16 11/12	= 540 ,,
Lady Ward	1	x	17	x	9 2/3	= 164 ,,
	1	x	32	x	16 11/12	= 541 ,,
	1	x	21 1/4	x	16 11/12	= 359 ,,
	1	x	20 11/12	x	16 11/12	= 354 ,,
Toilet	1	x	7 7/12	x	9 5/12	= 71 ,,
	1	x	16 11/12	x	9 5/6	= 166 ,,
Store	2	x	7 3/4	x	9 3/4	= 151 ,,
	1	x	197 1/2	x	7 1/2	= 1481 ,,
Coridor	1	x	197 1/2	x	6 3/4	= 1333 ,,
OPD	1	x	22 7/12	x	18	= 406 ,,
	1	x	12 5/12	x	14	= 174 ,,
	1	x	19 1/2	x	9 1/2	= 185 ,,
Lady Bed	2	x	18 5/8	x	18	= 671 ,,
Room	9	x	9 1/2	x	14	= 1197 ,,
	1	x	10 3/4	x	14	= 151 ,,
	1	x	6 7/8	x	4	= 28 ,,
Toilet	1	x	11 3/8	x	9 5/6	= 112 ,,
	2	x	8 1/4	x	4	= 66 ,,
	1	x	6 7/8	x	6	= 41 ,,
SMO Office	1	x	13 5/8	x	18	= 245 ,,
	1	x	7	x	7	= 49 ,,
	1	x	9	x	7 3/4	= 70 ,,
Store	1	x	9 1/8	x	7 1/2	= 68 ,,
X-Ray	1	x	18 3/4	x	17 1/2	= 328 ,,
Lab	1	x	17 3/8	x	18	= 313 ,,
emergency	1	x	11	x	18	= 198 ,,
	1	x	17	x	18	= 306 ,,
Room	1	x	18	x	18	= 324 ,,
	6	x	9	x	14	= 756 ,,
Ver	1	x	63	x	9 1/8	= 575 ,,
	1	x	86	x	9 1/8	= 785 ,,
	1	x	9 1/8	x	53 1/8	= 485 ,,

Ent.	1	x	29 3/8	x	27 3/8		=	804 Sft
Stair	1	x	29 3/8	x	14		=	411 ,,
	1	x	5 3/4	x	4 3/4		=	27 ,,
	1	x	11 3/4	x	10 1/2		=	123 ,,
Shade	182	x	4	x	1 3/4	x 1 1/2	=	1911 ,,
Nursing station	9	x	8	x	14		=	1008 ,,
Lab	2	x	9 1/8	x	14		=	256 ,,
	6	x	16 11/12	x	9 5/6		=	998 ,,
	1	x	16 11/12	x	9 5/6		=	166 ,,
	1	x	197 1/2	x	7 1/2		=	1481 ,,
	1	x	197 1/2	x	6 3/4		=	1333 ,,
	1	x	4	x	6 1/2		=	26 ,,
	1	x	4	x	6 7/8		=	28 ,,
Porch	1	x	17 3/4	x	21 1/4		=	377 ,,
G.F Ward	1	x	17	x	9 5/8		=	164 ,,
	1	x	20 7/12	x	16 7/8		=	347 ,,
	1	x	20 1/6	x	16 11/12		=	341 ,,
	1	x	20 11/12	x	16 3/4		=	350 ,,
	1	x	20 1/6	x	16 11/12		=	341 ,,
Nursing room	6	x	16 11/12	x	9 5/6		=	998 ,,
	1	x	16 11/12	x	10		=	169 ,,
ward	1	x	31 11/12	x	16 11/12		=	540 ,,
	1	x	17	x	9 2/3		=	164 ,,
Lady ward	1	x	32	x	16 11/12		=	541 ,,
	1	x	21 1/4	x	16 11/12		=	359 ,,
	1	x	20	x	16 11/12		=	338 ,,
	2	x	20 11/12	x	16 11/12		=	708 ,,
Toilet	1	x	7 7/12	x	9 5/6		=	75 ,,
	1	x	16 11/12	x	9 5/6		=	166 ,,
	2	x	7 3/4	x	9 3/4		=	151 ,,
Coridor	1	x	197 1/2	x	7 1/2		=	1481 ,,
	1	x	197 1/2	x	6 3/4		=	1333 ,,
	4	x	16 5/6	x	6 1/2		=	438 ,,
	4	x	4 5/6	x	6 1/2		=	126 ,,
	4	x	16 5/6	x	15 1/4		=	1027 ,,
	4	x	2 1/2	x	6 1/2		=	65 ,,
	1	x	15 1/4	x	16 3/4		=	255 ,,
	4	x	15 1/4	x	7 3/4		=	473 ,,
	2	x	16 3/4	x	9 5/6		=	329 ,,
	3	x	8 3/4	x	4 3/4		=	125 ,,
	3	x	7 1/2	x	2 1/2		=	56 ,,
	15	x	15 5/6	x	9 3/4		=	2316 ,,
	8	x	20 5/6	x	16 5/8		=	2771 ,,
	200	x	4	x	1 1/2	x 1 3/4	=	2100 ,,
	351	x	4	x	1 1/2	x 1 3/4	=	3686 ,,
	400	x	4	x	1 1/2	x 1 3/4	=	4200 ,,
	6	x	33	x	20		=	3960 ,,
	8	x	276	x	7 3/4		=	17112 ,,
	1	x	24	x	16		=	384 ,,

Total = 74693 Sft

@ 561.30 %Sft 419252

12 Preparing surface and painting with emulsion paint i/c scraping ordinary distempering or paint 2-coats on old surface.

F.F ward

	1	x	2	x(	17	+ 9 5/6	)x 6	=	322 Sft
	1	x	2	x(	20 7/12	+ 16 7/8	)x 5 5/6	=	437 ,,
	1	x	2	x(	20 1/12	+ 16 3/4	)x 5 5/6	=	430 ,,
	1	x	2	x(	20 11/12	+ 16 3/4	)x 5 5/6	=	439 ,,
	1	x	2	x(	21 1/6	+ 16 11/12	)x 5 5/6	=	444 ,,
Nursing station	6	x	2	x(	16 11/12	+ 9 5/6	)x 5 5/6	=	1872 ,,
	1	x	2	x(	16 11/12	+ 10	)x 5 5/6	=	314 ,,
ward	1	x	2	x(	32	+ 16 11/12	)x 5 5/6	=	571 ,,
	1	x	2	x(	21 1/4	+ 16 11/12	)x 5 5/6	=	445 ,,
	2	x	2	x(	20 11/12	+ 16 11/12	)x 5 5/6	=	883 ,,
Toilet	1	x	2	x(	20	+ 16 11/12	)x 5 5/6	=	431 ,,
	1	x	2	x(	7 7/12	+ 9 5/12	)x 5 5/6	=	198 ,,
	1	x	2	x(	16 11/12	+ 9 5/6	)x 5 5/6	=	312 ,,
	2	x	2	x(	7 3/4	+ 9 3/4	)x 11 1/2	=	805 ,,
	1	x	2	x(	197 1/2	+ 7 1/2	)x 5 5/6	=	2392 ,,

	1	x	2	x(	197 1/2	+	6 3/4	)x	5 5/6	=	2383	Sft
	1	x	2	x(	22 7/8	+	18	)x	6	=	491	,,
	1	x	2	x(	12 5/8	+	14	)x	6	=	320	,,
	1	x	2	x(	19 1/2	+	9 1/8	)x	6	=	344	,,
	2	x	2	x(	18 5/8	+	8	)x	6	=	639	,,
	9	x	2	x(	8 1/8	+	14	)x	6	=	2390	,,
	1	x	2	x(	10 3/4	+	14	)x	6	=	297	,,
	6	x	2	x(	16 11/12	+	9 5/6	)x	6	=	1926	,,
	1	x	2	x(	16 11/12	+	10	)x	6	=	323	,,
	1	x	2	x(	197 1/2	+	7 1/2	)x	6	=	2460	,,
	1	x	2	x(	197 1/2	+	6 3/4	)x	6	=	2451	,,
	1	x	2	x(	6 7/8	+	4	)x	6	=	131	,,
	1	x	2	x(	11 3/8	+	9 5/8	)x	6	=	252	,,
	2	x	2	x(	8 1/4	+	4	)x	6	=	294	,,
	1	x	2	x(	6 7/8	+	6	)x	6	=	155	,,
	1	x	2	x(	13 5/8	+	18	)x	6	=	380	,,
	1	x	2	x(	7	+	7	)x	6	=	168	,,
	1	x	2	x(	9	+	7 3/4	)x	6	=	201	,,
	1	x	2	x(	9 1/2	+	8 1/2	)x	6	=	216	,,
	1	x	2	x(	18 3/8	+	17 1/2	)x	6	=	431	,,
Emergency	1	x	2	x(	11	+	18	)x	6	=	348	,,
	1	x	2	x(	11	+	18	)x	6	=	348	,,
	1	x	2	x(	17	+	18	)x	6	=	420	,,
	1	x	2	x(	18	+	18	)x	6	=	432	,,
	6	x	2	x(	9	+	14	)x	6	=	1656	,,
	1	x	2	x(	63	+	9 1/8	)x	6	=	866	,,
	1	x	2	x(	83	+	9 1/8	)x	6	=	1106	,,
	1	x	2	x(	9 1/8	+	5 3/8	)x	6	=	174	,,
	1	x	2	x(	29 3/8	+	27 3/8	)x	6	=	681	,,
	1	x	2	x(	29 3/8	+	14	)x	6	=	521	,,
	1	x	2	x(	5 3/4	+	4 3/4	)x	6	=	126	,,
	1	x	2	x(	11 3/4	+	10 1/2	)x	11	=	490	,,
Nursing st.	8	x	2	x(	9	+	14	)x	6	=	2208	,,
	2	x	2	x(	9 1/8	+	14	)x	6	=	555	,,
	1	x	2	x(	4	+	6 1/2	)x	6	=	126	,,
	1	x	2	x(	4	+	6 7/8	)x	6	=	131	,,
	1	x	2	x(	17 3/4	+	21 1/4	)x	6	=	468	,,
	1	x	2	x(	17	+	9 5/8	)x	6	=	320	,,
	1	x	2	x(	20 7/12	+	16 7/8	)x	6	=	449	,,
	1	x	2	x(	20 7/12	+	16 7/8	)x	6	=	449	,,
	1	x	2	x(	20 11/12	+	16 3/4	)x	6	=	452	,,
	1	x	2	x(	20 1/6	+	16 11/12	)x	6	=	445	,,
	6	x	2	x(	16 11/12	+	9 5/6	)x	6	=	1926	,,
	1	x	2	x(	16 11/12	+	10	)x	6	=	323	,,
	1	x	2	x(	31 11/12	+	16 11/12	)x	6	=	586	,,
	1	x	2	x(	17	+	9 2/3	)x	6	=	320	,,
	1	x	2	x(	32	+	16 11/12	)x	6	=	587	,,
	1	x	2	x(	21 1/4	+	16 11/12	)x	6	=	458	,,
	1	x	2	x(	20	+	16 11/12	)x	6	=	443	,,
	2	x	2	x(	20 11/12	+	16 11/12	)x	6	=	908	,,
	1	x	2	x(	7 7/12	+	9 5/6	)x	6	=	209	,,
	1	x	2	x(	16 11/12	+	9 5/6	)x	6	=	321	,,
	2	x	2	x(	7 3/4	+	9 5/6	)x	6	=	422	,,
	1	x	2	x(	197 1/2	+	7 1/2	)x	6	=	2460	,,
	1	x	2	x(	197 1/2	+	6 3/4	)x	6	=	2451	,,
	4	x	2	x(	16 5/8	+	15 1/4	)x	10 1/2	=	2678	,,
	4	x	2	x(	4 5/6	+	6 1/2	)x	10 1/2	=	952	,,
	4	x	2	x(	2 1/2	+	6 1/2	)x	6	=	432	,,
	1	x	2	x(	15 1/4	+	16 3/4	)x	10 1/2	=	672	,,
	4	x	2	x(	15 1/4	+	7 3/4	)x	10 1/2	=	1932	,,
	2	x	2	x(	16 3/4	+	9 5/6	)x	10 1/2	=	1116	,,
	3	x	2	x(	8 3/4	+	4 3/4	)x	6	=	486	,,
	3	x	2	x(	8 3/4	+	7 3/4	)x	6	=	594	,,
	15	x	2	x(	15 5/6	+	18	)x	10 1/2	=	10657	,,
	8	x	2	x(	20 5/6	+	16 5/8	)x	10 1/2	=	6293	,,
	1	x	2	x(	24	+	16	)x	10 1/2	=	840	,,
	1	x	2	x(	16 3/4	+	15 1/2	)x	10 1/2	=	677	,,
	1	x	2	x(	15 1/3	+	7 3/4	)x	6	=	277	,,
	1	x	2	x(	10 1/2	+	7 3/4	)x	6	=	219	,,
	2	x	2	x(	16 3/4	+	10	)x	10 1/2	=	1124	,,

2	x	2	x(	16 3/4	+	9 5/6	)x	10 1/2		=	1116	Sft
2	x	2	x(	17 1/2	+	10 1/4	)x	10		=	1110	,,
2	x	2	x(	32 1/2	+	17 1/2	)x	6		=	1200	,,
1	x	2	x(	32 1/8	+	17 1/2	)x	6		=	596	,,
4	x	2	x(	197 1/2	+	6 3/4	)x	6		=	9804	,,
6	x	2	x(	198	+	7	)x	12		=	29520	,,
									Total	=	**123021**	**Sft**
										@	2796.55 %Sft	3440337

13 Painting doors and windows two coat on old surface after scraping of old paint

21	x	2	x	3 1/2	x	7				=	1029	Sft
5	x	2	x	4	x	7				=	280	,,
1	x	2	x	31 5/6	x	2 5/6				=	180	,,
1	x	2	x	5	x	8				=	80	,,
12	x	2	x	2 1/2	x	7				=	420	,,
2	x	2	x	7 2/3	x	6 7/12				=	202	,,
5	x	2	x	2 1/3	x	7				=	163	,,
5	x	2	x	2 5/12	x	7				=	169	,,
1	x	2	x	5	x	8 1/2				=	85	,,
5	x	2	x	3 3/4	x	6 5/6				=	256	,,
6	x	2	x	3 5/12	x	8 1/2				=	348	,,
1	x	2	x	4 11/12	x	8 1/2				=	84	,,
2	x	2	x	3	x	8 1/2				=	102	,,
12	x	2	x	4	x	8 1/2				=	816	,,
2	x	2	x	2 5/6	x	8 1/2				=	96	,,
7	x	2	x	2 1/2	x	7				=	245	,,
1	x	2	x	3 7/8	x	7				=	54	,,
1	x	2	x	9 1/8	x	6 7/8				=	125	,,
1	x	2	x	2 1/2	x	7				=	35	,,
3	x	2	x	11 1/2	x	7				=	483	,,
12	x	2	x	2 11/12	x	8 1/2				=	595	,,
6	x	2	x	4	x	8 1/2				=	408	,,
40	x	2	x	5	x	8 1/2				=	3400	,,
0	x	2	x	3 1/2	x	7				=	0	,,
1	x	2	x	100	x	2 2/3				=	533	,,

Wall border paint

M.S Office waiting room

1	x	2	x(	16	+	8 1/6	)x	5		=	242	,,
1	x	2	x(	32	+	17 1/4	)x	4 1/4		=	419	,,
1	x	2	x(	11 1/2	+	10	)x	4 1/3		=	186	,,
1	x	2	x(	53 1/2	+	6 5/6	)x	4 5/12		=	533	,,
3	x	2	x(	10 1/6	+	10	)x	4 5/12		=	534	,,
3	x	2	x(	4 5/12	+	7 1/2	)x	4 5/12		=	316	,,
1	x	2	x(	21	+	17 1/2	)x	6		=	462	,,
1	x	17 5/12	x	3 3/4						=	65	,,
									Total	=	**12945**	**Sft**
										@	3257.10 %Sft	421617

14 Painting sashes, fan light, glazed or gauzed doors and windows two coat on old surface after burning of old paint

40	x	3	x	6	x	6				=	4320	Sft
3	x	2	x	4	x	5 1/2				=	132	,,
1	x	2	x	7 1/2	x	5 1/2				=	83	,,
7	x	2	x	6	x	1 1/2				=	126	,,
2	x	2	x	2	x	4				=	32	,,
7	x	2	x	6	x	6				=	504	,,
1	x	2	x	16	x	6				=	192	,,
9	x	2	x	3/4	x	3/4				=	10	,,
9	x	2	x	3	x	2				=	108	,,
9	x	2	x	6	x	1 1/2				=	162	,,
2	x	2	x	3	x	1 1/2				=	18	,,
2	x	2	x	6	x	6 1/2				=	156	,,
27	x	4	x	3/4	x	3/4				=	61	,,
27	x	1	x	3	x	1 1/2				=	122	,,
27	x	2	x	6	x	3				=	972	,,
27	x	2	x	3	x	1 1/2				=	243	,,
65	x	2	x	8 1/2	x	8				=	8840	,,
85	x	2	x	10	x	6				=	10200	,,

1	x	2	x	33	x	3	=	198 Sft
1	x	2	x	45	x	3	=	270 ,,
1	x	2	x	32	x	3	=	192 ,,
1	x(	12	+	9	)x	3	=	63 ,,
(8	+	8	+	8	+	16 1/2	)x 2 3/4	= 111 ,,
2	x	7 5/6	x	2 3/4			=	43 ,,
(7 1/2	+	8	+	9 1/4	)x	2 3/4	=	68 ,,
1	x	8	x	9			=	72 ,,
1	x	7	x	11			=	77 ,,
2	x	53	x	2	x	2 3/4	=	583 ,,
1	x	9 1/2	x	2 3/4			=	26 ,,
1	x	32	x	3 1/4			=	104 ,,
1	x	14 1/2	x	5 1/4			=	76 ,,
1	x	27 1/3	x	2 3/4			=	75 ,,
1	x	2	x(	4 1/2	+	6 5/6)	=	60 ,,
2	x	2	x	9 5/6	x	9 5/6	=	387 ,,
1	x	2	x	160	x	2 1/2	=	800 ,,
1	x	2	x	80	x	2 1/2	=	400 ,,
2	x	2	x	12	x	10	=	480 ,,

Total = 30366 Sft

~~@ 2603.55 %Sft 790605~~

15 Painting guards bars, gate of iron bars graiting, railing etc. two coats on old surface i/c burning of old paint etc. complete

(62	+	73	+	34	+	45	)x 2 3/4	= 589 Sft
(8	+	8 1/4	+	10	+	7	)x 2 3/4	= 91 ,,
(8 1/2	+	7	+	10	+	6 1/2	)x 2 3/4	= 88 ,,
(7	+	10	+	6	)x	2 3/4		= 63 ,,

Total = 831 Sft

@ 2603.55 %Sft 21640

16 Providing and applying wall putty of 2mm thicknes sover plaster
Take qty.item No.12

= 123021 Sft

@ 371.05 %Sft 456469

17 P/Applying weather shield paint of approved quality on external surface of buildings i/c preparation of surface application of primer complete in all respect one coat on old surface

2	x(280	+	280	+	50	+ 50	)x 30	= 39600 Sft
2	x(196	+	45	)x	15 3/4			= 7592 ,,
2	x	10 5/6	x	1 1/2				= 32 ,,
1	x	23 3/4	x	1 1/2				= 36 ,,
4	x(	12	+	18 5/12	)x	10		= 1217 ,,
2	x	12	x	1 1/2				= 36 ,,
1	x	27 1/3	x	8 1/2				= 232 ,,
1	x	72 3/4	x	14 1/3				= 1043 ,,
2	x	12 5/12	x	14 1/3				= 356 ,,

Total = 50143 Sft

Deduction

W1	28	x 6	x 6	=	1008 Sft
W-2	3	x 6	x 8	=	144 ,,
W-3	8	x 6	x 3	=	144 ,,

Total = 1296 Sft

Net Total (50143 - 1296) **= 48847 Sft**

@ 1925.45 %Sft 940527

18 Extra labour for weather shield paint upto 20' height

2 x(280 + 280 + 50 + 50)x 10 **= 13200 Sft**

@ 36.55 %Sft 4825

19 Providing and laying super quality Porcelain glazed tiles of Master brand ,floor of specifiedsize, Colorand Shade with adhesive / bond over 1/2" thick (1:2) cement plasteri / the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

a) Full body Glazed tiles

(ii) 600 mm x 600 mm

Ent. Tarrace	1	x	21 1/8	x	13			=	275 Sft
OPD Hall	1	x	22	x	39 1/4			=	864 ,,
East side ent.	1	x	26 3/4	x	26 1/4			=	702 ,,
	1	x	27	x	12 1/8			=	327 ,,
	1	x	61 7/8	x	25 7/8			=	1601 ,,
	1	x	46 1/8	x	9 5/6			=	454 ,,
	1	x	32	x	17			=	544 ,,
	2	x	21	x	17			=	714 ,,
	4	x	21	x	17			=	1428 ,,
	1	x(	100	+	97 1/2	)x	6 3/4	=	1333 ,,
	1	x(	100	+	97 1/2	)x	7 1/2	=	1481 ,,
	2	x	18 5/8	x	18			=	671 ,,
	1	x	22 1/2	x	18			=	405 ,,
OT block	1	x	12	x	7			=	84 ,,
	1	x	21	x	7			=	147 ,,
	1	x	29	x	7			=	203 ,,
	1	x	25	x	7			=	175 ,,
	1	x	21	x	17 1/2			=	368 ,,
	1	x	11 1/2	x	8 1/2			=	98 ,,
Office	2	x	17 1/2	x	11			=	385 ,,
	1	x	5	x	7			=	35 ,,
	1	x	10	x	10			=	100 ,,
	1	x	5	x	7			=	35 ,,
Eye OPD	1	x	17 1/2	x	22			=	385 ,,
N.S	1	x	11 1/2	x	10			=	115 ,,

Total = 12929 Sft

@ 340.50 P.Sft 4402452

20 Providing and laying super quality Porcelain glazed tiles of Master brand ,skirting / dadoof specifiedsize, Colorand Shade with adhesive / bond over 1/2" thick (1:2) cement plasteri / the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

a) Full body Glazed tiles

(ii) 600 mm x 600 mm

	4	x	2	x(	21	+	17	)x 6	= 1824 Sft
	1	x	2	x(	32	+	17	)x 6	= 588 ,,
	2	x	2	x(	21	+	17	)x 6	= 912 ,,
G.F	2	x	2	x(	17	+	9 3/4	)x 5 1/2	= 589 ,,
F.F	2	x	2	x(	17	+	9 3/4	)x 5 1/2	= 589 ,,
Doridoor	1	x	2	x(	100	+	97 1/2	)x 5 1/2	= 2173 ,,
	1	x	2	x(	100	+	97 1/2	)x 5 1/2	= 2173 ,,
Opd Lady ward	2	x	2	x(	18 5/8	+	18	)x 5 1/2	= 806 ,,
	1	x	2	x(	22 1/2	+	18 1/2	)x 5 1/2	= 451 ,,
Ent. Hall			2	x	26 3/4	x	5 1/2		= 294 ,,
			2	x	39 1/4	x	5 1/2		= 432 ,,
	1	x	2	x(	61 7/8	+	25 7/8	)x 5 1/2	= 965 ,,

Total = 11794 Sft

Deduction 40

~~26~~ 40	x	2 1/2	x	5 1/2	=	~~275 Sft~~ 550
08 ~~48~~	x	3	x	5 1/2	=	~~66 ,,~~ 132
24 ~~1224~~	x	5	x	5 1/2	=	~~330 ,,~~ 660
08 ~~26~~	x	8	x	5 1/2	=	~~132 ,,~~ 264
1	x	25 7/8	x	5 1/2	=	142 ,,
4	x	4	x	5 1/2	=	88 ,,

Total = ~~1033 Sft~~ 1836 1836

9958 9958

Net Total (11794 - ~~1033~~ 1836) = ~~10761 Sft~~ 9958

@ 340.50 P.Sft ~~3664121~~ 3390699/

21 Providing and laying super quality Ceramic tile floor s of Master brand of specifiedsize ,Glossy / Matt / Texture of approved Color and Shade as per approved design with adhesive bond ,over 3/4" thick (1;2) cement sand plasteri / the cost of sealer for finishing the jointsi / cutting grinding complete in all respect sand as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Toilet

G.F ward	2	x	17	x	9 3/4	=	332	Sft
	10	x	3 1/2	x	5 1/2	=	193	,,
F.F	2	x	17	x	9 3/4	=	332	,,
	10	x	3 1/2	x	5	=	175	,,
Toilet	1	x	7 1/2	x	9 1/2	=	71	,,
	2	x	8 1/4	x	4	=	66	,,
	1	x	6 7/8	x	6	=	41	,,
	1	x	7 1/2	x	9	=	68	,,
	2	x	7 3/4	x	9 3/4	=	151	,,

Total = 1429 Sft

@ 239.90 P.Sft 342817

22 Providing and laying superb quality Ceramic tiles dado of Master brand of specifiedsize, Glossy/ Matt/ Texture skirting/dado of approved Color and Shadewit had hesive bond over 1/2" thick (1:2) cement plasteri / the cost of sealer for finishing the jointsi /ccutting grinding complete in ali respect sas approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

G.F WC

2	x	5	x	2	x(	3 1/2	+	5	)x	5 1/2	=	935	Sft
2	x	5	x	2	x(	3 1/2	+	5	)x	5 1/2	=	935	,,
		2	x	2	x(	7 1/2	+	9 1/2	)x	5 1/2	=	374	,,
		2	x	2	x(	8 1/4	+	4	)x	5 1/2	=	270	,,
		1	x	2	x(	6 7/8	+	6	)x	5 1/2	=	142	,,
		2	x	2	x(	7 3/4	+	9 3/4	)x	5 1/2	=	385	,,

Total = 3040 Sft

Deduction

20 x 2 1/2 x 5 1/2 = 275 Sft

Total = 275 Sft

Net Total (3040 - 275) = **2765 Sft**

@ 292.65 P.Sft 809214

23 Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge.

1	x	20 7/8	x	16 7/8	=	352	Sft
1	x	25 9/16	x	17 1/4	=	441	,,

Total = 793 Sft N.S

@ 1134.00 P.Sft 899262

24 Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge.

(b) Bevelled edges & flange 21.5 mm

(iii)600 mmX 600 mm

1	x	20 7/8	x	16 7/8	=	352	Sft
1	x	25 9/16	x	17 1/4	=	441	,,

Total = 793 Sft N.S

@ 945.00 P.Sft 749385

25 Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by the Engineer In-charge
(b) 2.5mm thick

OT	1	x	2	x(	20 7/8	+	16 7/8	)x	10	=	755 Sft
Labour room	1	x	2	x(	25 9/16	+	17 1/4	)x	10	=	856 ,,
									Total	=	**1611 Sft** **N.S**
										@	1890.00 P.Sft 3045263

26 Providing And Laying Non-Slippery Porcelain Tiles /Checker Tile For Flooring (12"X12" Size) Light Polished Sb, Laid Over Cement Sand Mortar (Ratio 1:2) 3/4"-Thick I/C Filling Joints With White Cement, Complete In All Respects And As Approved By The Engineer Incharge

Ramp	1	x	62	x	7 1/2				=	465 Sft
	1	x	11	x	12 1/2				=	138 ,,
	1	x	34	x	7				=	238 ,,
	1	x	18	x	7				=	126 ,,
	2	x	23	x	7				=	322 ,,
								Total	=	**1289 Sft** **N.S**
									@	292.00 P.Sft 376388

27 Providingandlaying3/4"thickfullwidthPrepolishedMarbleslabforVanities/ Shelves/Treads/WindowCills,havingUniformtexture(Spotless)withadhe sivebondover3/4"thick(1:2)cementsandmortori/cthecostofmatchingseal ercompleteinallrespectsasapproved and directed by the Engineer Incharge i)
China Verona

	3	x	27	x	1				=	81 Sft
	5	x	20	x	1				=	100 ,,
stair	2	x	22	x	4 1/4	x	1		=	187 ,,
Landing	2	x	2	x	4	x	4 1/4		=	68 ,,
	2	x	22	x	4 1/4		1		=	187 ,,
Wind: cill	7	x	4 1/4	x	1				=	30 ,,
	8	x	6	x	1				=	48 ,,
	2	x	8 1/4	x	1				=	17 ,,
	5	x	7 1/4	x	1				=	36 ,,
Step emergency	3	x	20	x	1				=	60 ,,
								Total	=	**814 Sft**
									@	412.30 P.Sft 335612

28 Providingandlaying3/8"thickPrepolishedMarbleskirting/risershavingunif ormtexture(spotless)ofsize24"x6"ofapprovedqualityandshadewithadhe sivebondover3/4"thick(1:2)cementsandmortorcompleteinallrespecti/cth ecostofmatchingsealertofinishthe joints as approved and directed by the Engineer Incharge. i) China Verona

	3	x	27	x	7/12				=	47 Sft
	5	x	20	x	1/2				=	50 ,,
	2	x	25	x	4 1/2	x	1/2		=	113 ,,
	2	x	25	x	4	x	1/2		=	100 ,,
	3	x	20	x	1/2				=	30 ,,
								Total	=	**340 Sft**
									@	412.30 P.Sft 140182

29 Providing and fixing all types of partly fixed and partly openable glazed anodized bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan cables, having chowkat frame of size 40x100mm (1½"x4") and leaf frame of 60x40mm) (2½"x1½") wide section including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75mm) wide long handles etc., and hardware any required as approved by the Engineer-in-charge.

	1	x	7	x	10 3/4			=	75 Sft
	1	x	5	x	8 1/2			=	43 ,,
	2	x	8	x	8 1/2	x	1/2	=	68 ,,
	3	x	5	x	8 1/2	x	1/2	=	64 ,,
Eye block	2	x	3 1/4	x	8 1/2			=	55 ,,
	1	x	3 1/2	x	7			=	25 ,,

Total = 330 Sft
@ 1437.60 P.Sft 0

30 Providing and fixing auotomatic hydraulic operated door close rimported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

= 10 Nos.
@ 2932.00 Each 29320

31 Providing and fixing Openable door comprising of 3mm thick UPVC hollow profile ,chowkat frame of 60mmx64mm and leaf frame 60 mmx106 mm both duly reinforced with G.I box frame inside the void with 20 mm wide panel with grooves on both sides i/e the cost of

20	x	2 1/2	x	7	= 350 Sft
4	x	3	x	7	= 84 ,,
9	x	2 1/2	x	7	= 158 ,,
3	x	2 1/2	x	7	= 53 ,,
2	x	2 1/2	x	7	= 35 ,,

Total = 680 Sft N.S
@ 880.00 P.Sft 598400

32 Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.

OPD	2	x	6	x	8	=	96 Sft
	24	x	6	x	6	=	864 ,,
	8	x	6	x	6	=	288 ,,
	7	x	4 1/4	x	5 1/2	=	164 ,,
	8	x	6	x	7 1/4	=	348 ,,
	2	x	8	x	7 1/2	=	120 ,,
	5	x	7 1/8	x	5 1/2	=	196 ,,
	9	x	6	x	3	=	162 ,,

Total = 2238 Sft
@ 1348.40 P.Sft 3017139

33 Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/ powder coated of size1-1/2"x1/2" and 1.6mm thick with rubber gas keti / c cost of Hardwares as approved and directed by theen gineerincharge.completeinallrespect.

2	x	6	x	8	=	96 Sft	
24	x	6	x	6	=	864 ,,	
8	x	6	x	6	=	288 ,,	
7	x	4 1/4	x	5 1/2	=	164 ,,	
8	x	6	x	7 1/4	=	348 ,,	
2	x	8	x	7 1/2	=	120 ,,	
5	x	7 1/8	x	5 1/2	=	196 ,,	
9	x	6	x	3	=	162 ,,	

Total = 2238 Sft

1/2	x	2238	=	**1119 Sft**

@ 493.05 P.Sft 551723

34 Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (i) 3/8" Squar Bars

	2	x	6	x	8		=	96 Sft	
	24	x	6	x	6		=	864 ,,	
	8	x	6	x	6		=	288 ,,	
	7	x	4 1/4	x	5 1/2		=	164 ,,	
	8	x	6	x	7 1/4		=	348 ,,	
	2	x	8	x	7 1/2		=	120 ,,	
	5	x	7 1/8	x	5 1/2		=	196 ,,	
	9	x	6	x	3		=	162 ,,	
						Total	=	**2238 Sft**	
							@	854.70 P.Sft	1912451

35 P/F 1-1/2" thick solidflush door comprisingof 2.5 mm thick Commercial ply compressedover 2.5 mm thick commercial ply over 1" thick packing wood instyle and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Paintingcharges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge

4	x	5	x	7		=	140 Sft	
2	x	3 1/2	x	7		=	49 ,,	
					Total	=	**189 Sft**	
						@	502.20 P.Sft	94916

36 Providing and fixing sliding bolt to doors:-
ii) Iron sliding bolt, 12" (300 mm) long. = **6 Nos.**
@ 470.00 Each 2820

37 Providing and Fixing False Ceiling of Gypsum Board (Impported) with 01-side laminated consisting of imported Tee 1"x1"x1/16 and 1"x1x1/16" angle on wall sides powder coated on lower exposed side coated with all accessories such as hanging wires, hooks, screws, rowel plugs and cross joints etc complete in all respects and as approved by the Engineer Incharge.

iii) 9 mm thick

Coridor	1	x(	100	+	97 1/2	)x	7 1/2			=	1481 Sft	
									Total	=	**1481 Sft**	
										@	95.25 P.Sft	0

38 Pacca brick work in First floor in cement sand mortar ratio 1:4

	1	x	17	x	3/8	x	11 1/2			=	73 cft	
	1	x(	8	+	7	)x	3/8	x	10	=	56 ,,	
	1	x	15	x	3/8	x	10			=	56	
									Total	=	**186 Cft**	
										@	29562.50 %Cft	54930

39 Add extra labour on item No. 5 for brick work in:
First floor
Take qty. item No. 38 = **186 Cft**
@ 1345.85 %Cft 2501

40 1/2" thick cement sand plaster ratio 1:4 upto 20' height

		1	x	17	x	11 1/2				=	196 Sft	
1	x	2	x(	8	+	7	)x	10		=	300 ,,	
		1	x	15	x	2	x	10		=	300 ,,	
									Total	=	**796 Sft**	
										@	3241.60 %Sft	25803

41 Painting new surface: -
c) Preparing surface and painting of doors and windows any type (including edges) 3-coats

	4	x	2	x	5	x	7	=	280 Sft
	2	x	2	x	3 1/2	x	7	=	98 ,,
							Total	=	**378 Sft**
								@	2714.80 %Sft 10262

42 Providing and fixing 2"X2" Stainless Steel 14 SWG Corner Guard angle with bevelled corner and 0.8 mm bend at edges duly pasted with premium grade self-adhesive glue strips with excellent hold/(double sided Tape) as approved and directed by the Engineer Incharge.

Opening edge											
Doors edge	60	x	2	x	5 1/2	x	1/3			=	220 Sft
Jaints	8	x(	11	+	11	+	8 1/2	)x	1/3	=	81 ,,
	6	x	12	x	1/3					=	24 ,,
Doors	5	x	2	x	5	x	4			=	200 ,,
								Total		=	**525 Sft N.S**
										@	1060.00 P.Sft 556513

43 Supply & Installation of Phillips, LED Panel Light 24"x24" (RC 091 LED 38S / 865 40-W) in Fasle Ceilign of approved manufacturer i/c cost of all labour & material complete, as approved by the Engineer Incharge.

= **50 Nos. N.S**
@ 14800.00 Each 740000

Total Rs: = ~~30922000~~ 2881977

Say Rs: = ~~30922000~~ 2881977

Sub Engineer

Sub Divisional Officer
Byuildings Sub Division
Khanewal

Executive Engineer
Byuildings Division
Khanewal

Public Health Installation

2nd Bi-Annual 2022

1	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	=	**27 Nos.** @ 2218.30 Each	59894
2	Providing and fitting glazed earthen ware wash hand basin /vanity	=	**25 Nos.** @ 6603.90 Each	165098
	v) Under Counter Vanity Basin	=	**5 Nos.** @ 7329.95 Each	0
3	Providing and fitting low down plastic made flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. ii) colored	=	**27 Nos.** @ 2649.10 Each	71526
4	Providing and fitting "P" trap (ii). 10 cm (4") glazed	=	**43 Nos.** @ 283.10 Each	12173
5	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Betaor equivalent, plain/socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents completeinall respect as approved and directed by theEngineer Incharge.Type (SDR 32.5/SN-8) 4" dia			
	a) 4" dia	=	**300 Rft** @ 260.60 P.Rft	78180
	b) 3" dia	=	**250 Rft** @ 163.75 P.Rft	40938
6	Providing and laying testeing commissioning of POLY PROPYLENE RANDOM COMOPYME (PPRC) WATER SUPPLY PIPE MADE OF (Dads/popular / Beta/ BBJ0 with speicfied pressure rating PN (Pressure Nominal) and conforming to Din 8077-8078 code i/c cost of solvent specials, matking jharries complete in all respect as approved and directed by engineer incharge (Internal/Eternal Diametrs mentioned) a) PN-16 Pipe			
	i) 25 mm dia	=	**1000 Rft** @ 57.95 P.Rft	57950
	ii) 32 mm dia	=	**1200 Rft** @ 93.65 P.Rft	112380
	iii) 40 mm dia	=	**1000 Rft** @ 129.40 P.Rft	129400
7	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal / Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer incharge			
	i) 3/4" dia	=	**15 Nos.** @ 1434.00 Each	21510
	ii) 1" dia	=	**7 Nos.** @ 1674.00 Each	11718
	iii) 1-1/4" dia	=	**3 Nos.** @ 1830.00 Each	5490
8	Providing and fitting Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (fullsize) i/c the cost of CP / rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	=	**6 Nos.** @ 19987.90 Each	119927
9	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge. i) Plastic soap dish	=	**10 Nos.** @ 1200.00 Each	12000

ii) Plastic toilet paper holder	=	10 Nos. @ 900.00 Each	9000
iii) Plastic tower rail	=	10 Nos. @ 1400.00 Each	14000
iv) Plastic shelf 60x13 cm (24:x5") with bracket and railing	=	10 Nos. @ 900.00 Each	9000
v) Plastic Brush holder	=	10 Nos. @ 900.00 Each	9000
vi) Looking glass with plastic frame	=	10 Nos. @ 1700.00 Each	17000
vii) Towel rail	=	10 Nos. @ 600.00 Each	6000
10 Providing and fixing CP bath Room Set made of Sonex / Master / Faisal comprising of 3-No Tee stop cocks ,lever type Basin Mixer, double Bib Cock,open wall shower, Muslim shower, waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge.			
i) 3-No. Tee stop cock	=	11 Nos. @ 2092.00 Each	23012
ii) Lever type Basin Mixer	=	~~11~~ 266 Nos. @ 6532.00 Each	~~71852~~ 169832
iii) Double bib cock	=	11 Nos. @ 1732.00 Each	19052
(iv) Open Type Wall Shower	=	11 Nos. @ 18532.00 Each	203852
v) Muslim shower	=	11 Nos. @ 2212.00 Each	24332
vi) Waste Coupling	=	11 Nos. @ 592.00 Each	6512
11 Providing and fixing chromium plated mixing valve, for wash hand basin, sink or shower.	=	~~15 Nos. @ 2228.75 Each~~	~~33431~~
12 Providing and fixing chromium plated tee stop cock 13 mm (½").	=	53 Nos. @ 955.00 Each	50615
13 Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	=	30 Nos. @ 775.00 Each	23250
14 Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15"x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	=	20 Nos. @ 1084.60 Each	21692
15 Providing and Fixing C.P Elbow Action for use in Scrub in Operation Theathers best quality complete in all respect as approved by the engineer incharge	=	4 Nos. N.S @ 18500.00 Each	74000
		Total Rs: =	~~1720295~~ 1578383
		Say Rs: =	~~1720300~~ 1578390

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division,
Khanewal

DHQ Khenwal

Provision/Installation of Electrical Equipment.

S.#			Qty:	Unit	Rate	Amount
A		**L.T. (LV) SUB-STATION EQUIPMENT:**				
1		**Construction of ELECTRICAL ROOM**	1		As per requirement	
2		P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication tights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complets in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		MDB-1(For PDBs)				
		Incoming from For 630 KVA Transformer				
	(i)	LT Switchboards				
	(a)	2.50 Ft deep				
	(i)	1000A (3.0x6'x2.5')	1	each	4,372.45	196760.25
		Incoming breakers for MDB-1				
	1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 1000A(36 KA) 1*1=1	1	each	280,773.00	280773
		Outgoing breakers for MDB-1				
	(a)	Tripple Pole 100A(36 KA) 1*3=3	3	each	17,433.00	52299
	(b)	Tripple Pole 150A(36 KA) 1*4=4	4	each	18,093.00	72,372.00
	(a)	Tripple Pole 200A(36 KA) (1* 2=2)	2	each	39,813.00	79626
4		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		PDBs (For OPD & Emergeacy)				
	(a)	6" deep				
	(ii)	100A (30"x22"x6")	4	each	13,765.05	125950.2075
		Incoming Breakers for PDBs (For OPD & Emergency)				
	1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 100A(36 KA) (2*2=4)	4	each	17,433.00	69732
		Outgoing Breakers for PDBs (For OPD & Emergeacy & other small department)				
	2	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(10 KA) (2*2=4)	4	each	11,253.00	45012
	(b)	Single Pole 32A(10 KA) (6*2=12)	12	each	1,101.75	13221
	(d)	Single Pole 16A(10 KA) (7*2=14)	14	each	1,101.75	15424.5
6		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		PDBs (For wards)				
	(a)	12" deep				
	(ii)	150A (3'x3'x12")	3	each	5,131.05	138538.35
		Incoming Breakers for PDBs (For wards)				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 150A(36 KA) (1*3=3)	3	each	18,093.00	54279
		Outgoing Breakers for PDBs (For wards)				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(10 KA) (3*2=6)	6	each	1,101.75	6610.5
	(b)	Single Pole 32A(10 KA) (6*2=12)	12	each	1,101.75	13221
	(c)	Single Pole 16A(10 KA) (6*2=12)	12	each	1,101.75	13221
7		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		LDBs (For Wards)				
	(a)	6" deep				
	(ii)	63A (18"x24"x6")	8	each	18,634.00	223608
		Incoming Breakers for LDBs (For Wards)				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(36 KA) (1*8=8)	8	each	17,433.00	139464
		Outgoing Breakers for LDBs (For Wards)				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Single Pole 20A(10 KA) (3*8=24)	24		1,101.75	26442
	(b)	Single Pole 16A(10 KA) (3*8=24)	32		1,101.75	35256
	(c)	Single Pole 10A(10 KA) (6*8=48)	48		1,101.75	52884
B		**LT POWER CABLE.**				
	1	120 mm sq (37/0.083) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (For Transformer)	500	rft	4,633.45	2316725
	2	95 mm sq (37/0.072) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (For Transformer and MDB-1)	~~200~~ 300	rft	3,676.05	~~736210~~ 1090815/-
	3	50 mm sq (19/0.072") PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (For PDBs)	350	rft	1,858.65	650527.5
	4	7/1.12 mm (7/0.044") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc (For LDBs and ACs)	250	rft	160.20	40050
	5	7/0.74 mm (7/0.029") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc (for Internal Wiring of Hospital)	100	rft	86.55	8655

(09) Cable 4 Core 300 Sq MM 1090.75 12-7-2017 225/-
7/44 Single Core 788 M 1090.75 770/- 138529

(25)

S.#			Qty:	Unit	Rate	Amount
	6	3/0.91 mm (3/0.036") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc **(for Internal Wiring of Hospital)**	200	rft	79.00	15800
	7	3/0.74 mm (3/0.029") PVC insulated, PVC sheathed twin core, 250/440 volts. copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc **(for Internal Wiring of Hospital)**	200	rft	43.20	8640
		TOTAL				~~5430301~~ 6184301
		SAY				~~5430300~~ 6184300

5568800

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

DETAILED ESTIMATE FOR RENOVATION / REVAMPING OF DISTRICT HEADQUARTER HOSPITAL AT KHANEWAL (Recepition Counter)

2nd I-Annual 2022

1 Pacca brick work in other than building in cement sand mortar ratio 1:4

	1	x	10	x	3/4	x	4	= 30 Cft
	4	x	2	x	3/4	x	4	= 24 ,,
Total								= 54 Cft
								@ 30526.30 %Cft 16484

2. P/L of Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-
(c) Type C (Nominal mix 1:2:4

	1	x	10	x	2 3/4	x	1/4	= 7 Cft
								@ 556.50 P.Cft 3829

3 Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, i/c cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-
b) deformed bars

	7	x	6.75	x	0.454			= 21 Kg
								@ 31411.60 %Kg 6622

4 1/2" thick plaster ratio 1:4 upto 20' height

	1	x	7	x	4			= 28 Sft
	3	x	2	x	2	x	4	= 48 ,,
Total								= 76 Sft
								@ 3241.60 %Sft 2464

5 Providing and laying super bquality Porcela in glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade withad hesive / bond over 3/4" thick (1:3) cement plasteri / cthe cost of sealer for finishing the jointsi / ccutting grinding complete in allrespect as approved and directed bv the Engineer Incharge.
a) Full body Glazed tiles
(ii) 600 mm x 600 mm

	1	x	10	x	4 1/4			= 43 Sft
	2	x	2 3/4	x	4 1/4			= 23 ,,
	4	x	3/4	x	4 1/4			= 13 ,,
	1	x	10	x	1/4			= 3 ,,
Total								= 81 Sft
								@ 340.50 P.Sft 27625

6 Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed,complete in all respect as approved and directed by the Engineer Incharge.
(i) 3/4" thick

	1	x	10	x	3			= 30 Sft
								@ 1308.95 P.Sft 39269

7 Providing and fixing aluminium glazed partition of anodized / powder coated using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film,rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid separately)

	1	x	10	x	2 1/2			= 25 Sft
								@ 1242.45 P.Sft 31061

8 Providing and fixing vinboard cabinet ¾" thick with drawers 3" deep in kitchen including termite proofing and polishing or painting with synthetic enamel as specified, with handles, hinges, etc: complete in all respects
I) 1-1/2' deep, without back

	1	x	10	x	2 1/2			= 25 Sft
								@ 1077.85 P.Sft 26946
								Total Rs: = 154299
								Add 3% Contingency = 4629
								Total Rs: = 158928
								Say Rs: = 158900

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detailed Estimate for Renovation / Revamping of Trauma Center in District Headquarte Hospital at Khanewal

2nd Bi-Annual 2022

1 Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge.

OT.Ground Floor	2	x	18	x	12	=	432 Sft
	1	x	18	x	18	=	324 ,,
	2	x	4 1/2	x	3/4	=	7 ,,

Total = 763 Sft N.S
@ 1134.00 P.Sft 865242

2 Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by the Engineer In-charge
(b) 2.5mm thick

OT.Ground Floor

1	x	2	x(	18	+	18	)x	10 1/2	=	756 Sft
2	x	2	x(	18	+	12	)x	10 1/2	=	1260 ,,

Total = 2016 Sft N.S
@ 1890.00 P.Sft 3810240

3 Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge.
(b) Bevelled edges & flange 21.5 mm
(iii)600 mmX 600 mm

OT.Ground Floor	2	x	18	x	12	=	432 Sft
	1	x	18	x	18	=	324 ,,

Total = 756 Sft N.S
@ 945.00 P.Sft 714420

Total Rs: = 5389902

Add 3% Contigency = 161697

Total Rs: = 5551599

Say Rs: = 5551600

Sub Engineer

Sub Divisional Officer
Byuildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detail for PCC Track

28

2nd Bi-Annual 2022

1 Dismantling and removing road metalling

1 x(30 + 30 + 20)x 6 x 1/2 = **240 Cft**

@ 2031.75 %Cft 4876

2 Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and. aggregate

Take same item No. 1 = **240 Cft**

Only Labour rate @ 6870.00 %Cft 16488

3 Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-

i) ordinary

1 x(50 + 50 x 89)x 6 x 3/4 = **851 Cft**

@ 9016.70 %0Cft 7669

4 Supplying and filling sand under floor, or plugging in wells

1 x(50 + 50 x 89)x 6 x 1/4 = **284 Cft**

@ 2823.30 %Cft 8004

5 Providing, laying watering and ramming brick ballast 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects

189 x 6 x 1/3 = **378 Cft**

@ 9164.40 %Cft 34641

6 Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):

f) Ratio 1: 2: 4

1 x(30 + 30 + 20)= 80 Rft

1 x(50 + 50 + 89)= 189 ,,

Total = 269 Rft (A)

269 x 5 x 1/3 = **448 Cft**

@ 38126.10 %Cft 170805

7 Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels.

a) Size 1½" x 3/8" (40 x 10 mm)

50% Take qty.item No.5-A

269 x 5 x 60 / 100 = **807 Rft**

@ 19.80 P.Rft 15979

8 Providing & fixing pre cast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Streng the of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonary for drain cum footpath etc complete in all respect.

(ii) With painting

(50 + 50 + 89) = 189 Rft

Total = 189 Rft

@ 411.90 P.Rft 77849

Total Rs: = 336311

Add 3% Contigency = 10089

Total Rs: = 346400

Say Rs: = 346400

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

External Sewerage System

29

2nd Bi-Annual 2022

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawingsincluding shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-
i) O ft. to 7.0 ft. (0 to 2.10 m) depth
For 9" RCC Pipe
1 x(132 + 167 x 127)x 3 x 3 = 3834 Cft
For 12" RCC Pipe
1 x(100 + 50 x 20)x 3 x 4 = 2040 ,,

Total = 5874 Cft
@ 11740.40 %0Cft 68963

2 Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½":3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, class "L" including carriage of pipe from factory to site of work, jointing, cutting pipes where necessary, finishing and testing, etc., complete
i) 9" dia (132 + 167 + 127) = 426 Rft

Total = 426 Rft
@ 528.30 P.Rft 225056

3 Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½":3 confirming to ASTM specification C-76-79, Class II wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.
i) 12" dia (100 + 50 + 20) = **170 Rft**
@ 695.60 P.Rft 118252

5 Rehandling of earthwork:
a) Lead upto a single throw of Kassi, phaorah or shovel
Take qty.item No.1 = **5874 Cft**
@ 2539.70 %0Cft 14918

6 Construction of Circular Man-Holes 5-1/2' dia depth (Anyalsis attached) = **6 Nos.**
44900.00 Each 269400

7 Construction of Hozi 1-1/2'x1-1/2'x1-1/2' size (Anyalsis attached) = **7 Nos.**
9000.00 Each 63000

8 Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect = **10 Nos.**
15108.75 Each 151088

Total Rs: = 910677

Add 3% Contigency = 27320

Total Rs: = 937997

Say Rs: = 938000

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detail for Construction of Man Hole 4' Dia 5-1/2' Depth

2nd Bi-Annual 2022

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, & removing surface water, in all types of soil except shingle, gravel and rock:-
i) O' to 7' depth

3.142 x 6 1/2 x 6 1/2 x 1/4 x 4 = **133 Cft**
@ 11740.40 %0Cft 1561

2 Cement concrete brick or stone ballast 1½ " to 2" gauge, in foundation and plinth:-
a) Ratio 1:6:18

3.142 x 6 1/2 x 6 1/2 x 1/4 x 1/2 = **17 Cft**
@ 20943.25 %Cft 3560

3 Pacca brick work ratio 1:4 Other than Building in cement sand mortar

3.142 x 4 3/4 x 3/4 x 1 1/2 = 17 Cft
3.142 x (4 3/4 + 2.58 / 2) x 3/4 x 3 = 26 ,,
Total = 43 Cft
@ 30526.30 %Cft 13099

4 Extra for Circular Masonary

3.142 x 4 3/4 x 3/4 x 1 1/2 = 17 Cft
3.142 x (4 3/4 + 2.58 / 2) x 3/4 x 3 = 26 ,,
Total = 43 Cft
@ 2634.00 %Cft 1130

5 1/2" thick cement sand plaster ratio 1:4

3.142 x (5 1/2 + 3.333 / 2) x 5 1/2 = 76 Sft
Total = 76 Sft
@ 3241.60 %Sft 2474

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

3.142 x 2 7/12 x 3/4 x 1 1/2 = 9 Cft
3.142 x 2 7/12 x 3/4 x 1/2 = 3 '
12 Cft
@ 38126.10 %Cft 4575

7 Extra for making and finishing benching floor work in manhole chamber, with 1/8" thick cement finish.

3.142 x 4 x 4 x 1/4 = **13 Sft**
@ 5262.95 %Sft 684

8 Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels. = **4 No.**
@ 590.85 Each 2363

9 Rehandling of earthwork:
a) Lead upto a single throw of Kassi, phaorah or shovel
80% Take qty.item No. 1

= **133 Cft**
@ 2539.70 %0Cft 338

10 Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect in all respect

= **1 No.**
@ 15108.75 Each 15109

Total Rs: = 44894

Say Rs: = 44900

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Detail for Construction of Hozi 1-1/2' x 1-1/2' x1-1/2'

(31)

2nd Bi-Annual 2022

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-

i) O' to 7' depth 1 x 3 x 3 x 1 = **9.00 Cft**
@ 11740.40 %0Cft 106

2 Cement concrete brick or stone ballast 1½ " to 2" gauge, in foundation and plinth:-
A) 1:6:12
In bed 1 x 3 x 3 0.5 = **4.50 Cft**
@ 20943.25 %Cft 942

3 Pacca brick work other than buildings upto 10' height cement sand mortar ratio 1:4

2 x 3 x 0.75 x 1.5 = 6.80 Cft
2 1.5 x 0.75 x 1.5 = 3.40 ,,
Total = **10.20 Cft**
@ 30526.30 %Cft 3114

4 Cement sand plater 1/2" thick upto 20' height Ratio 1:4

1 x 2 x(3 + 3)x 0.8 = 9.00 Sft

Total = **9.00 Sft**
@ 3241.60 %Sft 292

5 Cement sand plater 3/4" thick upto 20' height Ratio 1:4

1 x 2 x(1.5 + 1.5)x 2.3 = 13.50 Sft

Total = **13.50 Sft**
@ 4373.00 %Sft 590

5 Applying floating coat of neat cement 1/32" thick

1 x 2 x(1.5 + 1.5)x 1.5 = 9 Sft
@ 1835.90 %Sft 165

6 P/L of Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-
(c) Type C (Nominal mix 1:2:4

1 x 3 x 3 x 0.25 = 2.30 Cft
@ 556.50 P.Cft 1280

7 Fabrication of mild steel reinforcement for cement concrete, i/c cutting, bending, laying in position, making joints and fastenings, i/ccost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-
b) deformed bars

2.30 x 6.75 x 0.45 = **7.00 Kg**
@ 31411.60 %Kg 2199

8 Cement concrete plain including placing, compacting, finishing and curing complete (i/c screening and washing of stone aggregate):
f) Ratio 1: 2: 4

1.5 x 1.5 x 0.25 = **0.56 Cft**
@ 38126.10 %Cft 214

9 Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.

1 x 1.5 x 1.5 = **2 Sft**
@ 2934.10 %Sft 67

10 Rehanadling of earth lead upto single throgh of kassi = **9.00 Cft**
Take qty item No.1
@ 2539.70 %0Cft 23

Total Rs. **8993**

Say Rs: **9000**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division

Detail for D/d Cost of Old Material

(32)

2nd Bi-Annual 2022

1- Collapcible gate			
i) 7-3/4 x 8-1/2 size	=	**1 Nos.** @ 5000.00 Each	5000
ii) 9-3/4 x 9-3/4 size	=	**2 Nos.** @ 6000.00 Each	12000
iii) 7 x 10 size	=	**1 Nos.** @ 5000.00 Each	5000
iv) 8 x 8-1/2 size	=	**1 Nos.** @ 5500.00 Each	5500
2 Deodar wood door			
i) 7-1/2 x7 size	=	**43 Nos.** @ 2000.00 Each	86000
ii) Solid Flush leave only not useable	=	**3 Nos.** @ 500.00 Each	1500
3 M.S box windows (not useable)			
i) 6x6 size	=	**32 Nos.** @ 2000.00 Each	64000
ii) 6x8 size	=	**2 Nos.** @ 2500.00 Each	5000
iii) 4-1/2x5-1/2 size	=	**7 Nos.** @ 1800.00 Each	12600
iv) 8 x 7-1/2 size	=	**2 Nos.** @ 3000.00 Each	6000
v) 7-1/8 x 5-1/2 size	=	**5 Nos.** @ 2000.00 Each	10000
4 C.Windows			
i) 6x3 size	=	**9 Nos.** @ 1500.00 Each	13500
5 Old Tile 9"x4-1/2"x1-1/2"			
1944 x 3.5 x 50 / 100	=	**3402 Nos.** @ 3500.00 %Nos.	11907
		Total Rs: =	**238007**
		Say Rs: =	**238000**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Analysis of Rate:-

Providing and Laying Anti-microbial Floor (Gerflor Flooring), Anti-Bacterial, Anti-Static,Homogeneous, with best abrasion resistance,best indoor air quality, easy maintenance, No wax for life and high stain resistance, High performance homogeneous flooring, Resistant to main chemical products used in healthcare, Installed with Self leveling compound, complete in all respects and as approved by the Engineer Incharge.

Analysis Purpose---------- 10x10 = 100 Sft
Unit ----------P.Sft
2nd Bi-Annual 2022

a Providing and Laying Anti-microbial Floor (Gerflor Flooring), Anti-Bacterial, Anti-Static,Homogeneous, with best abrasion resistance,best indoor air quality, easy maintenance, No wax for life and high stain resistance, High performance homogeneous flooring, Resistant to main chemical products used in healthcare, Installed with Self leveling compound, complete in all respects and as approved by the Engineer Incharge.

Thickness = 2mm

1x10x10	=	100 Sft			
5% wastages	=	5 ,,			
Total		**105 Sft**			
		@	900 P.Sft		94500
			Total	**Rs:**	**94500**
Add 20% contractor's profit and OHC				Rs:	18900
			G.Total	**Rs:**	**113400**

Rate P.Sft 113400 / 100 = 1134 P.Sft

Say Rs: = 1134 P.Sft

Sub Engineer

Sub-Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

(34)

Analysis of Rate:-

Providing And Laying Non-porous Ceiling System, Aluminum Dampa Ceiling having Thickness: 0.7mm and Size: 600mm x 600mm in OTs complete in all respects and as approved by the Engineer Incharge.

Analysis Purpose---------- 10x10 = 100 Sft
Unit ----------P.Sft
2nd Bi-Annual 2022

a Providing And Laying Non-porous Ceiling System, Aluminum Dampa Ceiling having Thickness: 0.7mm and Size: 600mm x 600mm.

1x10x10	=	100 Sft			
5% wastages	=	5 ,,			
Total		**105 Sft**			
		@	750 P.Sft		78750
			Total	**Rs:**	**78750**
Add 20% contractor's profit and OHC				Rs:	15750
			G.Total	**Rs:**	**94500**

Rate P.Sft 94500 / 100 = 945 P.Sft

Say Rs: = 945 P.Sft

Sub Engineer

Sub-Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

Analysis of Rate:-

35

Providing And Laying Anti-microbial wall panelling/ cladding SPM Walls Panels that Can Resists to heavy impacts, Non-porous & 100% Antibacterial material suitable for high infection risk areas, Welded joints for perfect water tightness between panels or with vinyl flooring, Resists to standard cleaning, disinfection and antiseptic products, Heavy traffic resistant, Sustainable formulation complete in all respects and as approved by the Engineer Incharge.

Analysis Purpose---------- 10x10 = 100 Sft
Unit ----------P.Sft
2nd Bi-Annual 2022

a Providing And Laying Anti-microbial wall panelling/ cladding SPM Walls Panels that Can Resists to heavy impacts, Non-porous & 100% Antibacterial material suitable for high infection risk areas, Welded joints for perfect water tightness between panels or with vinyl flooring, Resists to standard cleaning, disinfection and antiseptic products, Heavy traffic resistant, Sustainable formulation

1x10x10	=	100 Sft			
5% wastages	=	5 ,,			
Total		**105 Sft**			
		@ 1500 P.Sft			157500
			Total	**Rs:**	**157500**
Add 20% contractor's profit and OHC				Rs:	31500
			G.Total	**Rs:**	**189000**

Rate P.Sft 189000 / 100 = 1890 P.Sft

Say Rs: = 1890 P.Sft

Sub Engineer

Sub-Divisional Officer
Buildings Sub Division
Khanewal

Executive Engineer
Buildings Division
Khanewal

(36)

ANALYSIS OF RATE FOR THE ITEM

Providing And Laying Non-Slippery Porcelain Tiles /Checker Tile For Flooring (12"X12" Size) Light Polished Sb, Laid Over Cement Sand Mortar (Ratio 1:2) 3/4"-Thick I/C Filling Joints With White Cement, Complete In All Respects And As Approved By The Engineer Incharge

Take 100 Sft for analysis purpose.
UNIT OF RATE = P-SFT

Sr. No:	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.					
1	Non-Slippery Tile 12"x12" LPF Series Light Color (Rectified)SB CA(1) 5 P.51/98	100 Sft		1347	P.Mtr.
	ADD 5% WASTAGE	5 Sft			
		105 Sft	P-Sft	125.14	13139.75
2	White Cement (06.009)	0.1 Bag	P-Bag	1550	155.00
3	Grey Cement (06.008)	2.16 Bag	P-Bag	1020	2203
4	Pigment. (10.015)	0.3 Kg	P-Kg	130	39.00
5	Sand (06.007)	5 Cft	% Cft	4200	210.00
	TOTAL - A				**15746.95**
B) LABOUR					
	i) MASON (LB-040)	1.95 Nos	P-Day	1250	2437.50
	ii) COOLY (SKILLED) (LB-024)	3.9 Nos	P-Day	1250	4875.00
	iii) Bahishti (LB-017)	0.5 No	P-Day	969	484.50
	10% SUNDRIES				779.70
	TOTAL - B				**8576.70**
	G- TOTAL (A+B)				**24323.65**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES				4864.73
	OVER ALL TOTAL				**29188.38**
	RATE PER Sft =			291.88	
	Say Rs: =			**292/- P. Sft**	

CERTIFICATE

1- Certified that input rates of material and labour for the item at serial No. 1-5 & i-iii are as per input rates displayed on web site of Finance Department for **2nd Bi-Annual 2022.**

2- Certified that rates for items at serial No. ____ is not available on the web site of Finance Department for **2nd Bi-Annual 2022** and as such the rate of Rs: 292/- has been applied after ascertaining it, form the market.

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

RATE ANALYSIS FOR

Making And Fixing Pvc Doors 1-1/2" Thick Consisting Of Pvc Frame And Pvc Leaves I/C Hinges Complete In All Respects As Approved Design /Color By The Engineer Incharge

Unit = P.Sft

Taking = 2-1/2x7 = 17.5-Sft

Based on 2nd Bi-annual 2022

Sr. No:	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.					
1	Provision of PVC Frame and Leaf i/c fitting screws (Leaf up-to 7` height) i/c carriage of material	17.5 Sft			
		17.5 Sft	P-Sft	650.00	11375
2	Providing of full hing of door leave	6.875 Rft			
		6.875 Rft	P-Rft	50.00	344
3	Cost of Screwes/ Holdfast	1 Job			
		1 Job	P.Job	250.00	250
	TOTAL - A				**11969.00**
B) LABOUR					
	i) Carpenter	0.25 No.	P-Day	1250	312.50
	ii) Helper	0.5 No.	P-Day	962	481.00
	10% SUNDRIES				79.35
	TOTAL - B				**872.85**
	G- TOTAL (A+B)				**12841.85**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES				2568.37
	OVER ALL TOTAL				**15410.22**

RATE PER Sft = 880.58

Say Rs: = 880/- P. Sft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

RATE ANALYSIS FOR

Making And Fixing Stainless Steel Clading 20-Swg I/C Fixing With Screws On Columns Complete In All Respects And As Approved By The Engineer Incharge

Unit = P.Rft
Taking = 20-Sft

2nd Bi-Annual 2022

Sr. No:	DESCRIPTION OF ITEMS		QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.						
1	P /O Stainless Steel Sheet 20-SWG					
		4x5	20 Sft			
	Add 5% Wastage		1 Sft			
			21 Sft	P.Sft	820.00	17220
2	Cost of Rowel Plugs					
		1x18	18 Nos			
			18 Nos	Each	10.00	180
3	Cost of Stainless Sankan Head Screws 1-1/2" Long					
		1x8	8 Nos			
			8 Nos	Each	5.00	40
	TOTAL - A					**17440.00**
B) LABOUR						
	i) Labour For Cutting Strip		2 No.	Each	25	50.00
	ii) Labour for Bending Strip		1 No.	(L.S)	25	25.00
	iii) Labour for drilling Hole		8 No.	(L.S)	20	160.00
	iiv) Labour for fixing Each angle		1 No.	(L.S)	20	20.00
	10% SUNDRIES					25.50
	TOTAL - B					**280.50**
	G- TOTAL (A+B)					**17720.50**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES					3544.1
	OVER ALL TOTAL					**21264.60**

RATE PER Rft = 1063.23

Say Rs: = 1060/- P. Sft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Khanewal

EXECUTIVE ENGINEER
Buildings Division
Khanewal

ANALYSIS OF RATE FOR THE ITEM

Supply & Installation of Phillips, LED Panel Light 24"x24" (RC 091 LED 38S / 865 40-W) in Fasle Ceilign of approved manufacturer i/c cost of all labour & material complete, as approved by the Engineer Incharge.

Detail of Cost=1-No.

Unit = Each

2nd Bi-annual 2022

A	**Material**					
1	Phillips, LED Panel Light 24"x24" (RC 091 LED 38S / 865 40-W)	1	No	Each	11000	11000
					Total "A"	**11000**
B	**Labour**					
1	Labour for fixing / installation.	1	No	Each	1350	1350
					Total "B"	**1350**
					Total Cost ="A"+"B" =	**12350**
	Add 20% Contractor's Profit & Overhead charges on Rs.	12350	/-			2470
					Grand Total: =	**14820**

Unit Rate P Sft = 14820 / 1 14820 Each

SAY 14800 Each

1 Certified that input rates of material and labour for the item at serial No. Nil are as per input rates displayed on web site of Finance Department for **2nd BI-Annual 2022**

2 Certified that rates for items at serial No. except all above are not available on the web site of Finance Department for **2nd BI-Annual 2022** and based on prevailing Market Rates.

SUB ENGINEER

SUB DIVISIONAL OFFICER
Bldgs: Sub Division
Khanewal

Executive Engineer
Building Division
Khanewal

8. ANNUAL OPERATING COST (POST COMPLETION)

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

Grant Number: Government Buildings - (PC12042)
LO NO:LO22010091
A/C To be Credited: Account-I

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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

Grant Number: Government Buildings - (PC12042)
LO NO:LO22010091
A/C To be Credited: Account-I

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	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	**A05270**-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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

Attached

9. 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	**9.715**	**12.952**
Utilization	**8.296**	**2.810**

Capital Side:

	FY 2021-22	FY 2022-23
Funds Released	**0.000**	**15.000**
Utilization	**0.000**	**0.000**

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

10.2 FINANCIAL PLAN DEBT INFORMATION

10.3 FINANCIAL PLAN GRANT INFORMATION

10.4 WEIGHT COST OF CAPITAL INFORMATION

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

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.

11.2 ENVIRONMENTAL IMPACT ANALYSIS

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.

11.3 PACT ANALYSIS

11.4 ECONOMIC ANALYSIS

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

11.3 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.

11.3.1 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.

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.

11.5 FINANCIAL ANALYSIS

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.

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

undefined

12.3 IMPLEMENTATION PLAN

undefined

12.4 M&E PLAN

Through Field Visits by Operations team and Management

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

NA

13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

The Organogram of new Health Management Structure is available in PC-I

14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

NA

15. CERTIFICATE

Focal Person Name: Mr. KHIZAR HAYAT **Designation:**PROJECT DIRECTOR
Email: **Tel. No.:**042-99231206
Fax No:
Address:31/E1, Shahrah-e-imam hussain road, Gulberg III, Lahore, Pakistan.

15. It is certified that the project titled **"Balance work of Revamping of DHQH Khanewal (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)
DIRECTOR PLANNING & HR, PMU,
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)

16. REVISION HISTORY

16.1 REVISION 1

17. RELATION WITH OTHER PROJECTS