PC-1

Balance Work of Revamping of DHQ Hospital Jhang

ORIGINAL APPROVED COST	**PKR Million. 230.236/-**
ORIGINAL APPROVED GESTATION	**49 Months** **Till December 2025**
APPROVAL FORUM	**DDSC (DDSC)**

1. NAME OF THE PROJECT

Balance Work of Revamping of DHQ Hospital Jhang

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. JHANG

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:**5345
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

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 Jhang:	123,661 SFT
Area completed:	21,804 SFT
Area Not Taken Up	96,749 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.

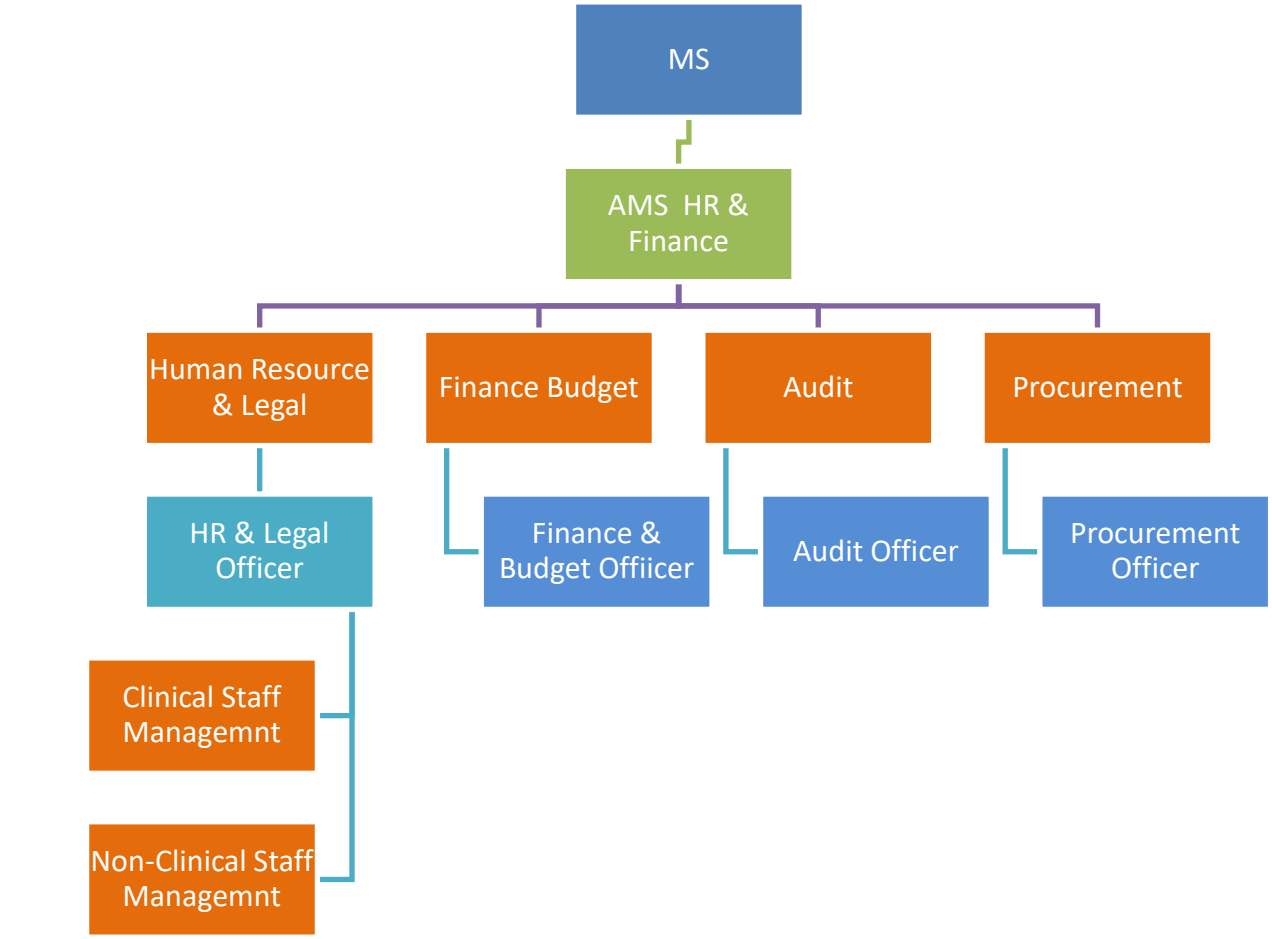
5.7.4 EMR and Networking

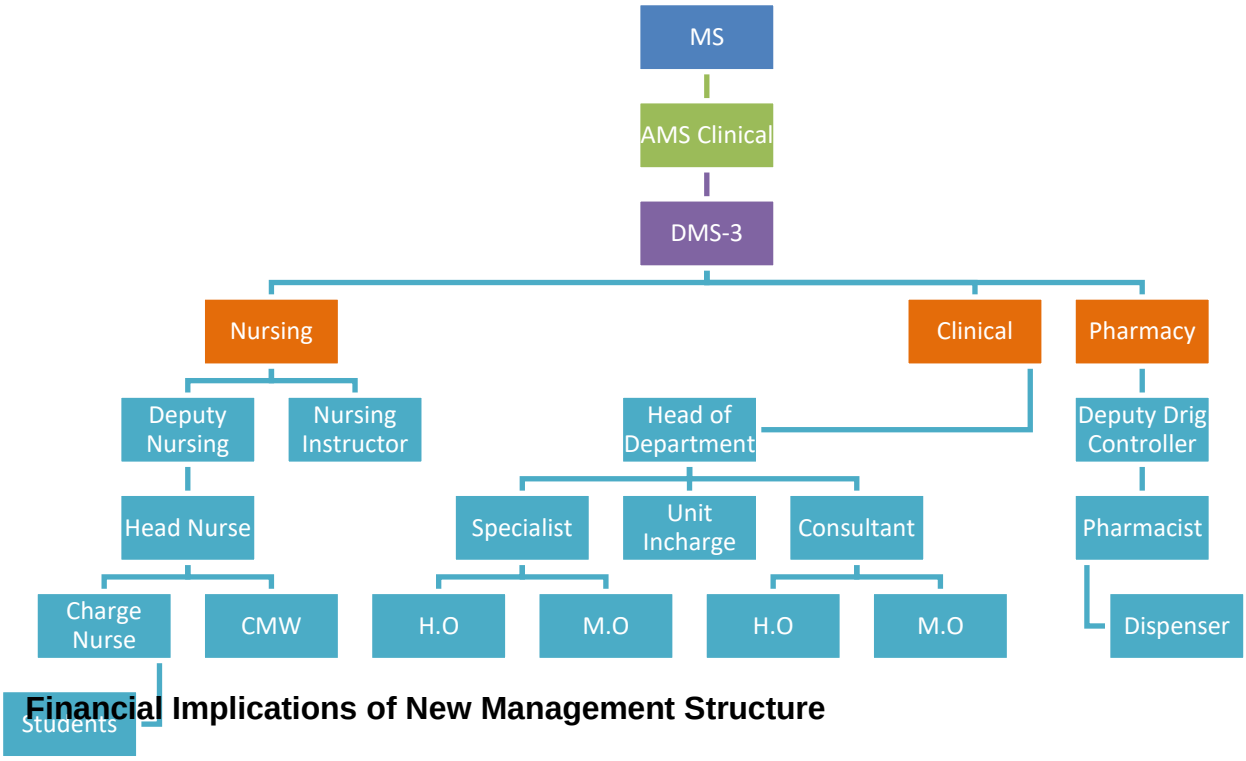
Establishment of network infrastructure, establishing a central data center, connectivity of different building through fiber, are also the major components of the revamping project in terms of ICT. This will including provision of networking point at all nursing stations and important areas where entries 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	105,000	1,260,000
HUMAN RESOURCE OFFICER	1	80,000	960,000	105,000	1,260,000
IT/STATISTICAL OFFICER	1	80,000	960,000	105,000	1,260,000
FINANCE & BUDGET OFFICER	1	80,000	960,000	105,000	1,260,000
AUDIT OFFICER	1	80,000	960,000	105,000	1,260,000
PROCUREMENT OFFICER	1	80,000	960,000	105,000	1,260,000
LOGISTICS OFFICER	1	80,000	960,000	105,000	1,260,000
BIOMEDICAL ENGINEER	1	80,000	960,000	105,000	1,260,000
QUALITY ASSURANCE OFFICER	1	80,000	960,000	105,000	1,260,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	1,680,000	44,000	2,112,000

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

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

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

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

5.8.2.1 HR / Legal Officer

Shall be responsible for following:

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

Eigibility Criteria

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

5.8.2.2 Finance & Budget Officer

Shall be responsible for following:

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

Eigibility Criteria

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

5.8.2.3 Audit Officer

Shall be responsible for following functions:

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

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

Eigibility Criteria

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

5.8.2.4 Procurement Officer

Shall be responsible for following functions:

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

Eigibility Criteria

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

5.8.2.5 ADMIN OFFICER AND ASSISTANT ADMIN OFFICER

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

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

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

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

Eligibility Criteria (Admin Officer)

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

Eligibility Criteria (Assistant Admin Officer)

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

5.8.2.6 IT/STATISTICAL OFFICER

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

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

Eligibility Criteria

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

5.8.2.7 QUALITY ASSURANCE OFFICER

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

Eligible Criteria

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

   OR

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

5.8.2.8 BIO-MEDICAL ENGINEER

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

Eligible Criteria

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

5.8.2.9 LOGISTICS OFFICER

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

Eligible Criteria

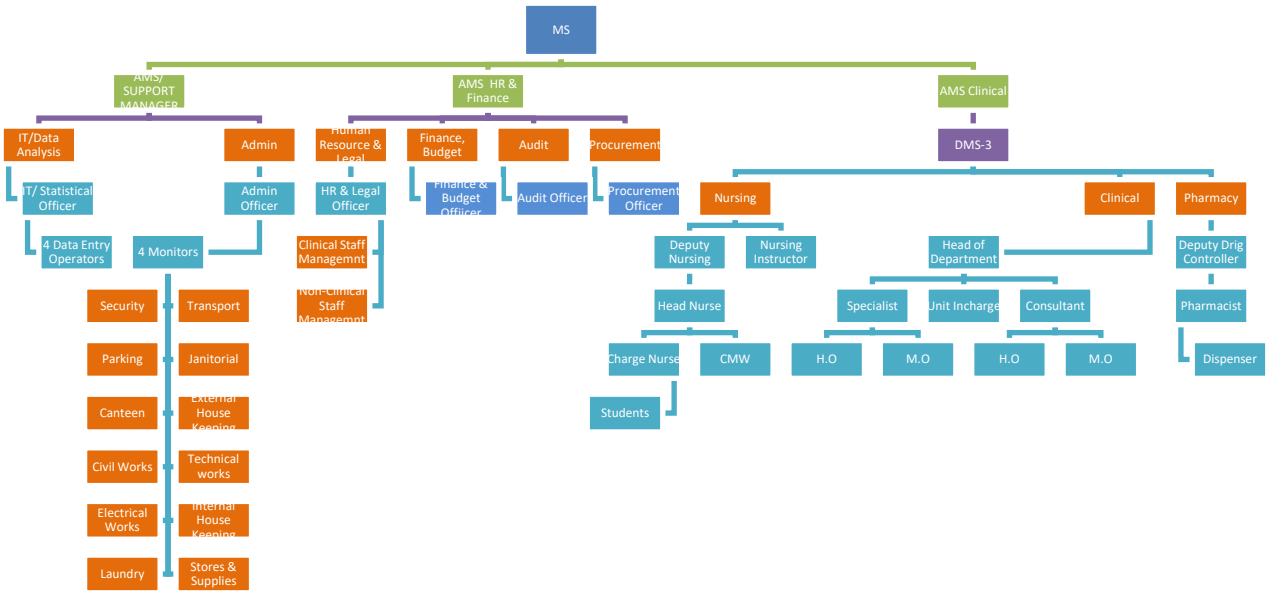
1. M.Sc. Supply Chain Management/ MBA or Equivalent.
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

5.8.2.10 Data Entry Operators (DEO)

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

Eligible Criteria

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



Financial Implications of New Management Model

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

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

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

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

5.9 RELATIONSHIP WITH SECTORAL OBJECTIVES

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

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

5.10 PATIENT MANAGEMENT PROTOCOL

5.10.1 EMERGENCY:

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

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

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

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

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

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

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

modifications are decided in the relevant department for each patient.

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

5.10.4 INVENTORY CONTROL SYSTEM

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

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

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

5.10.5 PROJECT MONITORING COMMITTEE

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

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

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

6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT

attached

6. DESCRIPTION, JUSTIFICATION AND TECHNICAL PARAMETERS

The scheme has been estimated on face of the factual basic requirements and if needed, alterations and has been quoted in this PC-I. The Population of District Jhang is more than 4.730 million. The area of the DHQ Hospital Jhang is 1,116,225 SFT. The bed strength of the Hospital is 275 beds.

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 increased from Rs. 130.628 million to Rs. 177.190 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 Sectors, Health Department

7. CAPITAL COST ESTIMATES

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

Grant Number: Development - (PC22036)
LO NO:LO21010529
A/C To be Credited: Assan Assignment

PKR Million

Sr #	Object Code	2021-2022		2022-2023		2023-2024		2024-2025		2025-2026	
		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:LO22010087
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2021-2022		2022-2023		2023-2024		2024-2025		2025-2026	
		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**

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

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

Abstract of Cost

Name of DHQ Hospital	DHQ Jhang					
Scope of work	Orignal			1st Revised		
	Capital	Revenue	Total	Capital	Revenue	Total
Capital component						
Internal Development	71.529	0.000	71.529	136.228	0.000	136.228
External Development	59.099	0.000	59.099	40.962	0.000	40.962
Water filtration plant	0.000	0.000	0.000	0.000	0.000	0.000
Total Capital Component	**130.628**	**0.000**	**130.628**	**177.190**	**0.000**	**177.190**
Revenue component						
Human resource (HR) plan	0.000	25.440	25.440	0.000	53.046	53.046
Total Revenue component	**0.000**	**25.440**	**25.440**	**0.000**	**53.046**	**53.046**
Total	**130.628**	**25.440**	**156.068**	**177.190**	**53.046**	**230.236**
Grand Total	**130.628**	**25.440**	**156.068**	**177.190**	**53.046**	**230.236**

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				**9.615**					
									53.046

PROVINCE	PUNJAB
DISTRICT	JHANG
DIVISION	BUILDINGS DIVISION JHANG.
SUB DIVISION	BUILDINGS SUB DIVISION JHANG.
NAME OF WORK	**ROUGH COST ESTIMATE FOR THE BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT JHANG ADP NO.660/2022-23**
MAJOR HEAD	
MINOR HEAD.	
ESTIMATED COST	177.190 (M) ~~228.565~~ (M) ~~235.315~~ Rs. ~~232.941~~ Million. 232.941

ROUGHCOST ESTIMATE FRAMED IN THE OFFICE OF EXECUTIVE ENGINEER, BUILDINGS DIVISION, JHANG FOR THE WORK ("RE-VAMPING OF ALL D.H.Q / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT, JHANG)". ADP # 1013 FOR THE YEAR 2021-22

ADP #

HISTORY:

The Government of Punjab is very keen interested to provide the better health facilities for the citizen of the area. The district jhang is backward district of central Punjab and needs many improvements in Health sector.

The D.H.Q Hospital building was constructed in 1975s , comprises of 300 beds, the condition of building is not matching the latest standards of construction now, The P.M.U team along with their Expert engineers and Architect visited the site on 2-08-2022 and given the directions to Buildings Department jhang for preparation of rough cost estimate according to latest specifications recently circulated by the Honorable Secretary to Govt of the Punjab communication and Works Department Lahore.

Therefore, the rough cost estimate has been framed amounting ~~Rs. 235.313~~ 232.941 ***(Million)*** *For arrangement administrative approval / funds from the competent authority.*

DESIGN / SCOPE:

1.	*Repair and Replacement of Floors*	*1-Job*
2.	*Replacement of Doors and Windows*	*1-Job*
3.	*Distempering Painting of All Existing Building.*	*1-Job*
4.	*Treatment of Roofs / Replacement of Tiles.*	*1-Job*
5.	*Provision of Street Lights*	*1-Job*
6.	*Renovation of Internal Walkways*	*1-Job*
7.	*Rehabilitation of Sewerage System.*	*1-Job*
8.	*Internal Sanitary work.*	*1-Job*
9.	*Provision of Power wiring.*	*1-Job*
10.	*Renovation and Improvement of Main Medicine Store.*	*1-Job*

SPECIFICATION.

The work will be carried out according to the latest specification of C&W Department.

RATES:

Rates provided are based on M.R.S. 2nd Bi-Annual from 1st July 2022 to 31 Dec 2022, District Jhang. Market rates will be provided wherever applicable. 177.190 (M)

COST:

The cost of estimate works out to be ~~Rs. 235.313~~ 232.941 ~~228.585 M~~ ***million.***

TIME:

It will take about 24-months to complete the work subject to availability of full funds.

CARRYING OUT OF WORK:

The work will be carried out through approved Government contractor of Buildings Department after competitive tendering process.

Sub Divisional Officer
Buildings Subdivision, Jhang.

Executive Engineer
Buildings Division, Jhang.

"OR THE WORK" RE-VAMPING OF ALL D.H.Q HOSPITALS IN PUNJAB ONE AT DISTRICT JHANG.ADP

(BASED ON MRS, BI-ANNUAL PERIOD (2nd Bi-Annual 2022)

Sr. No.	Description	Plinth Area (SFT)		847982.23 Rate (P-SFT) B.P	P.H	Sui Gas	E.I	Total	Amount	Remarks
1-	Repair and Replacement of Floors D.H.O Hospital (Main Building)			8644350 + 372870 + 165330				80990700 73358000	80990700 73358000	= 20667750 / 93571108 / -
2-	Replacement of Doors and Windows Trauma Center	1975484		1330000			5044185 957782	33257200 32878000	33257200 32878000	233103 / - 220442667 / -
3-	Distempring, Painting all Existing Building. CT Scan	34446		3677800	+566100	+138460	822940	4554700	4554700	5628500 / - 4931507 / -
4-	Treatment of Roofs / replacement of roof tile etc Main Emergency Block	1317890		+566100	+230 1400			23396000 18806000	23396000 74933000	1604670 / - 13461350 / -
5-	Renovation of Internal Walk Ways and Provision of bituminous asphalt road and Tuff Tile shoulder.	1702109	Job		1193141			21156158	21156158	
6-	Internal sanitary work	1	Job					5244100	5244100	
7-	Cost of Power wiring and internal electric instalations.	1	Job				985200	22397800	22397800	985200 / -
8-	Laying of Main External Sewerage pipe.	1	Job					9886000	9886000	
9-	Re-Hablitation of Medicine Store.			Detai Attachec.					200000	22,20,000 / -
10-	Construction of power room for main electric lowgear switches. 1 x 25 x 15 = 375 Sft	375	Sft	3674			228	3902	1463250	
11-	Construction of Front Enterance Ambulance Porch 25 x 18 =	450	Sft	2663			128	2791	1255950	
								Total:	303601858	16392953 / -
	Add 5% External Development. (Repair/Replacement of of External Water Supply Pipes Repair and , Re- Laying of old Tuff Pavers, and Street Lights ETC.			271920			2.J	Rs.	10180093 4447000	135960 / -
								Total:	213781951	20767560 / -
	Add Extra For Horticulture Charges 1%								2137820	209767
	Add for 3% Contingency Charges.	211062751						Rs.	6331883	6211465 492965
	Add for 5% PST							Rs.	10689098	10488375 / - 8203274
							177.190 (M)	G.Total:	232940750	133425

TECHNICALLY VETTED
For Rs. 177.190 228.565 (M) (Million)
Rupees Two hundred twenty eight Point five Six Five Lacs only

Say Rs. 232.941 Million

177190730

Chief Architect, Punjab Buildings Dept. Central Zone Lahore.

Deputy Director, Punjab Buildings Deptt Central Zone Lahore.

Chief Draftsmen, Punjab Buildings Dept. Central Zone Lahore.

SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION, JHANG

EXECUTIVE ENGINEER
BUILDINGS DIVISION, JHANG

SUPERINTENDING ENGINEER
BUILDINGS CIRCLE NO.2,
FAISALABAD.

COMPARATIVE STATEMENT FOR THE WORK "Revamping of all DHQ Hospitals in Punjab one at District Jhang"

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				(+)Excess (-) Saving (10-6)	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount		
1	2	3	4	5	6	7	8	9	10	11.00	12
2	Repair & replacement of floors.	1	P.Job	34652000	34652000	1	P.Job	93571108	93571108	58,919,108.00	
3	Replacement of Doors and Windows	1	P.Job	12694500	12694500	1	P.Job	22044266	22044266	9,349,766.00	
4	Distermpring, Painting all Existing Building	1	sft	1670300	1670300	1	P.Job	4931507	4931507	3,261,207.00	
5	Treatment of Roofs / replacement of roof tile etc	1	sft	12988247	12988247	1	P.Job	13461350	13461350	473,103.00	
6	Renovation of Street lights i/c replacement oflight poles, wires, bulbs, holders etc. single arm	20	No	95000	1900000				0	- 1,900,000.00	
7	Renovation of Street lights i/c replacement oflight poles, wires, bulbs, holders etc. double arm	10	No	127221	1272210				0	- 1,272,210.00	
8	Renovation of Job Internal Walk Ways and Provision of bitumineous asphalt road and TuffTile shoulder.	1	P.Job	13920278	13920278	1	P.Job	0	0	- 13,920,278.00	
9	Re-Hablitation ofsewerage system	1	P.Job	4502000	4502000	1	P.Job	9886000	9886000	5,384,000.00	
10	Internal sanitary work	1	P.Job	1985200	1985200	1	P.Job	5244100	5244100	3,258,900.00	
11	Cost of Power wiring and internal electric instalation	1	P.Job	27650000	27650000	1	P.Job	9852000	9852000	- 17,798,000.00	
12	Rehabilitation of Medicine Store.					1	P.Job	2220000	2220000	2,220,000.00	
13	Const of power room					375	Sft	3902	1463250	1,463,250.00	
14	Construction of Front entrance Ambulance Porch					450	Sft	2791	1255950	1,255,950.00	
	Add 5% External Development of specified area					0.05		2719200	135960	135,960.00	
	Total				**113234735**				**164065491**	**50,830,756.00**	
	Add 3% Contingency				3397042.05				4921964.73	1,524,922.68	
	Total				116631777.1						
	Add 5% External Development				5,831,588.85						
	2% Consultancy charges				2,332,635.54				-		
	5% PST				5,831,588.85				8,203,274.55	2,371,685.70	
	Grand Total				**130,627,590.30**				**177,190,730.28**	46,563,139.98	
	Say				**130.627**				**177.190**	**46.56**	

Rough Cost Estimate For The Work "Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab On At D.H.Q Hospital at Jhang. A.D.P # 660 For The Year 2022-23,

(BASED ON MRS, BI-ANNUAL PERIOD (2nd Bi-Annual 2022)

Sr. No.	Description	Plinth Area (SFT)		Rate (P-SFT) B.P	P.H	Sui Gas	E.I	Total	Amount	Over All Rate B.P	P.H	E.I	Total	Unit	Remarks
1-	D H.Q Hospital Main Building.	59326	Sft	99211200	3743700	0	16603300	119558200	119558200	1672	63	280	2015	P.SFT	
2-	Truama Centre	7810	Sft	21867200	1345900	0	2978600	26191700	26191700	2800	172	381	3354	P.SFT	
3-	C.T Scan	5195	Sft	3810400	581100	0	1404600	5796100	5796100	734	112	270	1116	P.SFT	
4-	Main Emergency Block.	10086	Sft	13564900	581100	0	2321900	16467900	16467900	1345	58	230	1633	P.SFT	
5-	Renovation of Internal Walk Ways and Provision of bitumineous asphalt road and Tuff Tile shoulder.	1	Job	Detail Attached				24628700	24628700						
6-	Cost of Power wiring and Low Voltage switch gear sysytem.	1	Job	Detail Attached				21156158	21156158						
7-	Laying of Main External Sewerage pipe.	1	Job	Detail Attached				9886000	9886000						
8-	Renovation and improvement of Main Medical Sore.			Detail Attached				2272400	2272400						
9-	Construction of power room for main electric lowvoltage swithcegear system. 1 x 25 x 15 = 375 Sft	375	Sft	3674			228	3902	1463250						
10-	Construction of Front Enterance Ambulance Porch 25 x 18 =	450	Sft	2663			128	2791	1255950						
								Total:	228676358						
	Add 5% External Development. (Repair/Replacement of of External Water Supply Pipes Repair and , Re- Laying of old Tuff Pavers. and Street Lights ETC.						L.S	Rs.	7500000						
								Total:	236176358						
	Add Extra 1% For Horticulture Green Punjab Charges								2361764						
	Add for 3% Contingency Charges.	236176358						Rs.	7085291						
	Add for 5% PST							Rs.	11808818						
								G.Total:	257432230						

Say Rs. 257.432 Million

SUB DIVISION H. OFFICER
BUILDINGS SUB DIVISION, JHANG

EXECUTIVE ENGINEER
BUILDINGS DIVISION, JHANG

Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab A.D.P # 660 For The Year 2022-23, One At D.H.Q Hospital Jhang.

MAIN BUILDING **TOTAL PLINTH AREA.** **59326 Sft**

(Based on MRS 2nd Bi-Annual from 1st july 2022 to 31st Dec 2022.).

1- Dismentling P.C.C. 1:2:4 (1.5" thick).

WARD BLOCK	0	x	50	x	20	=	0	Sft
VER/PASSAGE	4	x	162-3/8	x	8	=	5196	Sft
TREATMENT ETC	4	x	10	x	7-1/2	=	300	Sft
STAFF	4	x	14-3/4	x	8	=	472	Sft
OFFICE	4	x	12	x	21-1/2	=	1032	Sft
AMS	2	x	17-3/4	x	11	=	391	Sft
MS	1	x	19-3/4	x	18	=	356	Sft
WAITING	3	x	17-3/4	x	12	=	639	Sft
HD CLRK	1	x	17-3/4	x	12	=	213	Sft
ACOUNT	1	x	17-3/4	x	14	=	249	Sft
RAMP SIDE	1	x	15	x	10	=	150	Sft
HEPATYTS	1	x	14	x	20	=	280	Sft
""	1	x	12	x	12	=	144	Sft
PASSAGE	0	x	70	x	8	=	0	Sft
TO WARDS	0	x	122-3/4	x	10-1/4	=	0	Sft
OPD OFFICE PASS	0	x	122-3/4	x	10-1/4	=	0	Sft
	0	x	132-3/4	x	8-3/4	=	0	Sft
TOKEN ROOM	2	x	22	x	7-3/4	=	341	Sft
MS Side	1	x	72-3/4	x	7-3/4	=	564	Sft
	1	x	48-1/4	x	15	=	724	Sft
	1	x	129	x	9	=	1161	Sft
MO ETC ROOMS	2	x	16	x	12-3/4	=	408	Sft
	1	x	16	x	14	=	224	Sft
WAITING	1	x	16	x	14	=	224	Sft
TREATMENT ETC	1	x	15-3/4	x	12-3/4	=	201	Sft
	2	x	16	x	14	=	448	Sft
	4	x	12	x	13-3/4	=	660	Sft
	1	x	14	x	13-3/4	=	193	Sft
MLC	1	x	15-3/4	x	17	=	268	Sft
OPD /ECG	4	x	12	x	16	=	768	Sft
OPD Hall	1	x	72-1/2	x	32	=	2320	Sft
	1	x	15	x	11	=	165	Sft
	1	x	9-3/4	x	8	=	78	Sft
WMO	1	x	12-3/4	x	16	=	204	Sft
	1	x	12-3/4	x	12	=	153	Sft
	1	x	14-3/4	x	12	=	177	Sft
	1	x	18	x	12	=	216	Sft
	2	x	16	x	12	=	384	Sft
	2	x	22-1/4	x	8	=	356	Sft
dylysis	0	x	82-1/4	x	8	=	0	
F FLOOR								
Operation	1	x	73	x	8	=	584	Sft
Theater.	2	x	28	x	20	=	1120	Sft
	1	x	15	x	10-3/4	=	161	Sft
	1	x	15	x	6	=	90	Sft
	1	x	4	x	5-3/4	=	23	Sft
gynee	1	x	93-1/2	x	8	=	748	Sft
	1	x	81-1/4	x	9	=	731	Sft
	1	x	121	x	9	=	1089	Sft
WAITING	1	x	15	x	49	=	735	Sft
EYE WARD	1	x	53	x	8-3/4	=	464	Sft
	1	x	24-1/4	x	8	=	194	Sft
	1	x	16-3/4	x	8	=	134	Sft
	1	x	12	x	14	=	168	
	1	x	91	x	8-1/4		751	
Auto Play Room	1	x	12	x	11		132	
Eye O.T	1	x	14	x	21		294	
Scrub	1	x	5	x	7-3/4		39	
Surgn	1	x	12	x	16		192	
	1	x	4	x	16		64	
SMO	1	x	12	x	28-1/2		342	
Laser Room	1	x	12	x	17-3/4		213	
	1	x	12	x	17-3/4		213	
GEN Lab	1	x	12	x	14-1/4		171	
OPD	1	x	16-1/4	x	23		374	
	1	x	11	x	10-1/4		113	
Re-Exam	1	x	16-1/4	x	13-1/2		219	

Bath	1	x	16-7/8	x	10	169	
	1	x	5	x	10-1/4	51	
RECOVERY	4	x	21-1/2	x	15	= 1290	Sft
	4	x	4-1/2	x	5	= 90	Sft
RAMP	1	x	120	x	8	= 960	
ward toilets	5	x	21-1/4	x	15	= 1594	Sft
OPD TOILETS	4	x	10	x	16	= 640	Sft
	5	x	6-1/4	x	7-1/2	= 234	Sft
	2	x	8	x	7	= 112	Sft
	1	x	9-1/4	x	7	= 65	Sft
	4	x	5-1/2	x	6-1/2	= 143	Sft
	2	x	6	x	6	= 72	Sft
	8	x	8	x	7	= 448	Sft
	3	x	10	x	12	= 360	Sft
	4	x	8	x	12	= 384	Sft
	6	x	9	x	13	= 702	Sft
					Total:	= 36331	Sft (A)
			36331	x	0.125	= 4541	Cft
						@ 10666.65	% Cft 484373/-

2- Dismentling mud concrete.

Qty: ~~as per item No. 1(A)~~ = 36331 x 0.333 = 12098 Cft
@ ~~2131.75~~ % Cft ~~257899/-~~

3- Dry rammed brick or stone ballast 1-1/2" to 2" gauge.

Qty: as per item No. 2 = 12098 Cft
@ 8891.50 % Cft ~~1075894/-~~

4- Cement concrete plain i/c placing, compacting, finishing and curing complete (i/c screening and washing of stone aggregate) ratio 1:2:4.

Qty: as per item No. 1(A) = 36331 x ~~0.166~~ 0.125 = ~~6031~~ 4541 Cft
@ 38178.90 % Cft ~~2302569/-~~ 1733847/

5- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Full body glazed tile 600mm x 600 mm / 24" x 24"

WARD BLOCK	0	x	50	x	20	= 0	Sft
VER/PASSAGE	0	x	162-3/8	x	8	= 0	Sft
TREATMENT ET	4	x	10	x	7-1/2	= 300	Sft
STAFF	4	x	14-3/4	x	8	= 472	Sft
OFFICE	4	x	12	x	21-1/2	= 1032	Sft
AMS	2	x	17-3/4	x	11	= 391	Sft
MS	1	x	19-3/4	x	18	= 356	Sft
WAITING	3	x	17-3/4	x	12	= 639	Sft
HD CLRK	1	x	17-3/4	x	12	= 213	Sft
ACOUNT	1	x	17-3/4	x	14	= 249	Sft
RAMP SIDE	1	x	15	x	10	= 150	Sft
HEPATYTS	1	x	14	x	20	= 280	Sft
"""	1	x	12	x	12	= 144	Sft
PASSAGE	1	x	70	x	8	= ~~560~~	~~Sft~~
TO WARDS	0	x	122-3/4	x	10-1/4	= ~~0~~	~~Sft~~
OPD OFFICE PAS	0	x	122-3/4	x	10-1/4	= ~~0~~	~~Sft~~
	0	x	132-3/4	x	8-3/4	= ~~0~~	~~Sft~~
TOKEN ROOM	2	x	22	x	7-3/4	= 341	
MS Side	1	x	72-3/4	x	7-3/4	= 564	
	1	x	48-1/4	x	15	= 724	
	0	x	129	x	9	= 0	
MO ETC ROOMS	2	x	16	x	12-3/4	= 408	Sft
	1	x	16	x	14	= 224	Sft
WAITING	1	x	16	x	14	= 224	Sft
TREATMENT ET	1	x	15-3/4	x	12-3/4	= 201	Sft
	2	x	16	x	14	= 448	Sft
	4	x	12	x	13-3/4	= 660	Sft

	1	x	14	x	13-3/4	=	193	Sft	
MLC	1	x	15-3/4	x	17	=	268	Sft	
OPD /ECG	4	x	12	x	16	=	768	Sft	
OPD Hall	1	x	72-1/2	x	32	=	2320	Sft	
	1	x	15	x	11	=	165	Sft	
	1	x	9-3/4	x	8	=	78	Sft	
WMO	1	x	12-3/4	x	16	=	204	Sft	
	1	x	12-3/4	x	12	=	153	Sft	
	1	x	14-3/4	x	12	=	177	Sft	
	1	x	18	x	12	=	216	Sft	
	2	x	16	x	12	=	384	Sft	
	2	x	22-1/4	x	8	=	356	Sft	
dylysis	1	x	82-1/4	x	8	=	658		
F.FLOOR									
Operation	1	x	73	x	8	=	584	Sft	
Theater.	2	x	28	x	20	=	1120	Sft	
	1	x	15	x	10-3/4	=	161	Sft	
	1	x	15	x	6	=	90	Sft	
	1	x	4	x	5-3/4	=	23	Sft	
Gynee	0	x	93-1/2	x	8	=	0	Sft	
	0	x	81-1/4	x	9	=	0	Sft	
	1	x	121	x	9	=	1089	Sft	
WAITING	1	x	15	x	49	=	735	Sft	
EYE WARD	1	x	53	x	8-3/4	=	464	Sft	
	1	x	24-1/4	x	8	=	194	Sft	
	1	x	16-3/4	x	8	=	134	Sft	
	1	x	12	x	14	=	168		
	1	x	91	x	8-1/4	=	751		
Auto Play Room	1	x	12	x	11	=	132		
Eye O T	1	x	14	x	21	=	294		
Scrub	1	x	5	x	7-3/4	=	39		
Surgn	1	x	12	x	16	=	192		
	1	x	4	x	16	=	64		
SMO	1	x	12	x	28-1/2	=	342		
Laser Room	1	x	12	x	17-3/4	=	213		
	1	x	12	x	17-3/4	=	213		
GEN Lab	1	x	12	x	14-1/4	=	171		
OPD	1	x	16-1/4	x	23	=	374		
	1	x	11	x	10-1/4	=	113		
Re-Exam	1	x	16-1/4	x	13-1/2	=	219		
RECOVERY	4	x	21-1/2	x	15	=	1290	Sft	
	4	x	4-1/2	x	5	=	90	Sft	
						=	23779	Sft	
						@	340.55	P.Sft	8097938/-

6- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Non-Skid Chequred Tiles 300mmx300mm / 12" x 12".

RAMP MAIN BLDG	1	x	120	x	8	=	960		
Main Ramp	1	x	24	x	5	=	120	Sft	
	1	x	78	x	7	=	546	Sft	
	1	x	33	x	7	=	231	Sft	
Landing	2	x	12-1/4	x	10-1/4	=	251	Sft	
Ramp	2	x	55	x	5-1/2	=	605	Sft	
	1	x	11	x	8-1/2	=	94	Sft	
	2	x	12	x	5	=	120	Sft	
	1	x	18	x	5	=	90	Sft	
					Total	=	3017	Sft	
						@	211.6	P Sft	638397

7- Dismantling glazed or encaustic tiles, etc

WARD BLOCK	4	x	2	(	50	+	20	)	4	=	2240	Sft	
VER/PASSAGE	4	x	2	(	162-3/8	+	8	)	4	=	5452	Sft	
TREATMENT ETC	4	x	2	(	10	+	7-1/2	)	4	=	560	Sft	
STAFF	4	x	2	(	14-3/4	+	8	)	4	=	728	Sft	
OFFICE	4	x	2	(	12	+	21-1/2	)	4	=	1072	Sft	
AMS	2	x	2	(	17-3/4	+	11	)	4	=	460	Sft	
MS	1	x	2	(	19-3/4	+	18	)	4	=	302	Sft	
WAITING	3	x	2	(	17-3/4	+	12	)	4	=	714	Sft	

HD CLRK	1	x	2	(	17-3/4	+	12	)	4	=	238	Sft
ACOUNT	1	x	2	(	17-3/4	+	14	)	4	=	254	Sft
RAMP SIDE	1	x	2	(	15	+	10	)	4	=	200	Sft
HEPATYTS	1	x	2	(	14	+	20	)	4	=	272	Sft
"	1	x	2	(	12	+	12	)	4	=	192	Sft
PASSAGE	1	x	2	(	70	+	8	)	4	=	624	Sft
TO WARDS	1	x	2	(	122-3/4	+	10-1/4	)	4	=	1064	Sft
OPD OFFICE PASS	2	x	2	(	122-3/4	+	10-1/4	)	4	=	2128	Sft
	1	x	2	(	132-3/4	+	8-3/4	)	4	=	1132	Sft
TOKEN ROOM	2	x	2	(	22	+	7-3/4	)	4	=	476	Sft
MS Side	1	x	2	(	72-3/4	+	7-3/4	)	4	=	644	Sft
	1	x	2	(	48-1/4	+	15	)	4	=	506	Sft
	1	x	2	(	129	+	9	)	4	=	1104	Sft
MO ETC ROOMS	2	x	2	(	16	+	12-3/4	)	4	=	460	Sft
	1	x	2	(	16	+	14	)	4	=	240	Sft
WAITING	1	x	2	(	16	+	14	)	4	=	240	Sft
TREATMENT ET	1	x	2	(	15-3/4	+	12-3/4	)	4	=	228	Sft
	2	x	2	(	16	+	14	)	4	=	480	Sft
	4	x	2	(	12	+	13-3/4	)	4	=	824	Sft
	1	x	2	(	14	+	13-3/4	)	4	=	222	Sft
MLC	1	x	2	(	15-3/4	+	17	)	4	=	262	Sft
OPD /ECG	4	x	2	(	12	+	16	)	4	=	896	Sft
OPD Hall	1	x	2	(	72-1/2	+	32	)	4	=	836	Sft
	1	x	2	(	15	+	11	)	4	=	208	Sft
	1	x	2	(	9-3/4	+	8	)	4	=	142	Sft
WMO	1	x	2	(	12-3/4	+	16	)	4	=	230	Sft
	1	x	2	(	12-3/4	+	12	)	4	=	198	Sft
	1	x	2	(	14-3/4	+	12	)	4	=	214	Sft
	1	x	2	(	18	+	12	)	4	=	240	Sft
	2	x	2	(	16	+	12	)	4	=	448	Sft
	2	x	2	(	22-1/4	+	8	)	4	=	484	Sft
dylysis	1	x	2	(	82-1/4	+	8	)	4	=	722	Sft
F.FLOOR		x	2	(		+		)	4	=	0	Sft
Operation	1	x	2	(	73	+	8	)	4	=	648	Sft
Theater.	2	x	2	(	28	+	20	)	4	=	768	Sft
	1	x	2	(	15	+	10-3/4	)	4	=	206	Sft
	1	x	2	(	15	+	6	)	4	=	168	Sft
	1	x	2	(	4	+	5-3/4	)	4	=	78	Sft
Gynee	1	x	2	(	93-1/2	+	8	)	4	=	812	Sft
	1	x	2	(	81-1/4	+	9	)	4	=	722	Sft
	1	x	2	(	121	+	9	)	4	=	1040	Sft
WAITING	1	x	2	(	15	+	49	)	4	=	512	Sft
EYE WARD	1	x	2	(	53	+	8-3/4	)	4	=	494	Sft
	1	x	2	(	24-1/4	+	8	)	4	=	258	Sft
	1	x	2	(	16-3/4	+	8	)	4	=	198	Sft
	1	x	2	(	12	+	14	)	4	=	208	Sft
	1	x	2	(	91	+	8-1/4	)	4	=	794	Sft
Auto Play Room	1	x	2	(	12	+	11	)	4	=	184	Sft
Eye O.T	1	x	2	(	14	+	21	)	4	=	280	Sft
Scrub	1	x	2	(	5	+	7-3/4	)	4	=	102	Sft
Surgn	1	x	2	(	12	+	16	)	4	=	224	Sft
	1	x	2	(	4	+	16	)	4	=	160	Sft
SMO	1	x	2	(	12	+	28-1/2	)	4	=	324	Sft
Laser Room	1	x	2	(	12	+	17-3/4	)	4	=	238	Sft
	1	x	2	(	12	+	17-3/4	)	4	=	238	Sft
GEN Lab	1	x	2	(	12	+	14-1/4	)	4	=	210	Sft
OPD	1	x	2	(	16-1/4	+	23	)	4	=	314	Sft
	1	x	2	(	11	+	10-1/4	)	4	=	170	Sft
Re-Exam	1	x	2	(	16-1/4	+	13-1/2	)	4	=	238	Sft
RECOVERY	4	x	2	(	21-1/2	+	15	)	4	=	1168	Sft
	4	x	2	(	4-1/2	+	5	)	4	=	304	Sft

Hd Opeys 2x10Sx36"x4 = ~2940

TOTAL = ~~38996~~ Sft 36056 Sft

Bath Areas

	5	x	2	(	21	+	15	)	7	=	2520	Sft
	1	x	2	(	5	+	10-1/4	)	7	=	214	Sft
	1	x	2	(	12	+	10	)	7	=	308	Sft
	6	x	2	(	6	+	4	)	7	=	840	Sft
	1	x	2	(	16-7/8	+	10	)	7	=	376	Sft
	1	x	2	(	5	+	10-1/4	)	7	=	214	Sft
	1	x	2	(	18	+	10	)	7	=	392	Sft
	2	x	2	(	6	+	4	)	7	=	280	Sft
	5	x	2	(	21-1/4	+	15	)	7	=	2538	Sft
	4	x	2	(	10	+	16	)	7	=	1456	Sft
	5	x	2	(	6-1/4	+	7-1/2	)	7	=	963	Sft
	4	x	2	(	8	+	7	)	7	=	840	Sft
	1	x	2	(	9-1/4	+	7	)	7	=	228	Sft
	6	x	2	(	5-1/2	+	6-1/2	)	7	=	1008	Sft

2	x	2	(	6	+	6	)	7	=	336 Sft
8	x	2	(	8	+	7	)	7	=	1680 Sft
3	x	2	(	10	+	12	)	7	=	924 Sft
4	x	2	(	8	+	12	)	7	=	1120 Sft
6	x	2	(	9	+	13	)	7	=	1848 Sft
1	x	2	(	5	+	3-1/2	)	7	=	119 Sft
4	x	2	(	3-3/4	+	6	)	7	=	546 Sft
2	x	2	(	4-1/4	+	8	)	7	=	343 Sft
2	x	2	(	6	+	6	)	7	=	336 Sft
2	x	2	(	4	+	4-1/2	)	7	=	238 Sft
40	x	2	(	3-1/2	+	5	)	7	=	4760 Sft
5	x	2	(	4	+	5	)	7	=	630 Sft

2a122x2.5a7 = -4270

Total: = ~~25055~~ Sft 20785

G.TOTAL 36056 ~~30996~~ + 20785 ~~25055~~ = 56841 ~~64051~~

@ 2335.85 % Sft 1327720 ~~5852411/-~~

8- Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. 600mm x600 mm 24" x 24" size.

As Item No 7 Total: = 36056 ~~38996~~ Sft

@ 340.55 P Sft 122 78871/- ~~13280068/-~~

9- P/L LED Lining 2mm thick

xray troma	#	x	2	(	14	+	18	)	12	= 768 Sft
Main Building	#	x	2	(	14	+	26 3/4	)	12	= 978 Sft

Total: = 1746 Sft

1350

@ 1450.00 P.Sft 2357100/ ~~2531700/-~~

10- P/L Anti Bacterial Material / Anti static anti microbial Vinyl Flooring self leveling complete in all respect.

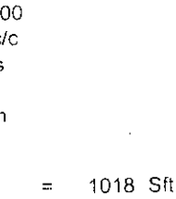
O.T	2	x	27-1/2	x	18-1/2	=	1018 Sft
	3	x	19-1/3	x	19	=	1102 Sft

Total. = 2120 Sft

650

@ ~~1150~~ P.Sft 1378000/ ~~2438000~~

11- 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



o.t	#	x	2	(	27 1/2	+	18 1/2	)	12	= 2208 Sft
Main Building	#	x	2	(	19 1/3	+	19	)	12	= 2760 Sft

Total. = 4968 Sft

250

@ ~~750~~ P.Sft 1241880 ~~3725982~~

12- Supply and installation of Clip-in tile (0.6 mm -0.7 mm thick)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. (a) Sharp edges & flange19.5 mm 600 mmX 600 mm

O.T	2	x	27-1/2	x	18-1/2	=	1018 Sft	
	3	x	19-1/3	x	19	=	1102 Sft	

Total. = 2120 Sft

600

@ ~~550~~ P Sft 1272000/ ~~1166000~~

13- 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.

O.T	2 x 27-1/2 x 18-1/2	=	1078	Sft
	3 x 19-1/3 x 19	=	1102	Sft
	Total	=	2120	Sft
	@	1250 P.Sft	2650000	

14- 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.

corners	1 x 450 x 4 1/2	Total.	=	2025	Rft	350 708750
	@			455 P.Rft	921375	

15- Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1,2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	1 x 16-7/8 x 10			169			
	1 x 5 x 10-1/4			51			
Bath	1 x 12 x 10		=	120	Sft		
Bath	6 x 6 x 4		=	144	Sft		
Bath	1 x 16-7/8 x 10			169			
	1 x 5 x 10-1/4			51			
Bath	1 x 18 x 10		=	180	Sft		
Bath	2 x 6 x 4		=	48	Sft		
ward toilets	5 x 21-1/4 x 15		=	1594	Sft		
OPD TOILETS	4 x 10 x 16		=	640	Sft		
	5 x 6-1/4 x 7-1/2		=	234	Sft		
	4 x 8 x 7		=	224	Sft		
	1 x 9-1/4 x 7		=	65	Sft		
	6 x 5-1/2 x 6-1/2		=	215	Sft		
	2 x 6 x 6		=	72	Sft		
	8 x 8 x 7		=	448	Sft		
	3 x 10 x 12		=	360	Sft		
	4 x 8 x 12		=	384	Sft		
	6 x 9 x 13		=	702	Sft		
		Total.	=	5870	Sft		
		@				240 P.Sft	1408800

16- Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	1 x 2	(16-7/8	+	10	)	7	=	376	Sft		
	1 x 2	(5	+	10-1/4	)	7	=	214	Sft		
Bath	1 x 2	(12	+	10	)	7	=	308	Sft		
Bath	6 x 2	(6	+	4	)	7	=	840	Sft		
Bath	1 x 2	(16-7/8	+	10	)	7	=	376	Sft		
	1 x 2	(5	+	10-1/4	)	7	=	214	Sft		
Bath	1 x 2	(18	+	10	)	7	=	392	Sft		
Bath	2 x 2	(6	+	4	)	7	=	280	Sft		
ward toilets	5 x 2	(21-1/4	+	15	)	7	=	2538	Sft		
OPD TOILETS	4 x 2	(10	+	16	)	7	=	1456	Sft		
	5 x 2	(6-1/4	+	7-1/2	)	7	=	963	Sft		
	4 x 2	(8	+	7	)	7	=	840	Sft		
	1 x 2	(9-1/4	+	7	)	7	=	228	Sft		
	6 x 2	(5-1/2	+	6-1/2	)	7	=	1008	Sft		
	2 x 2	(6	+	6	)	7	=	336	Sft		
	8 x 2	(8	+	7	)	7	=	1680	Sft		

	3	x 2	(10	+ 12	)	7	=	924	Sft	
	4	x 2	(8	+ 12	)	7	=	1120	Sft	
	6	x 2	(9	+ 13	)	7	=	1848	Sft	
Bath	1	x 2	(5	+ 3-1/2	)	7	=	119	Sft	
Bath	4	x 2	(3-3/4	+ 6	)	7	=	546	Sft	
	2	x 2	(4-1/4	+ 8	)	7	=	343	Sft	
Bath	4	x 2	(6	+ 6	)	7	=	672	Sft	
bath	4	x 2	(4	+ 4-1/2	)	7	=	476	Sft	
Wards	40	x 2	(3-1/2	+ 5	)	7	=	4760	Sft	
	5	x 2	x 2	x 17	x	7	=	1330	Sft	
	4	x 2	(6	+ 6-1/2	)	7	=	700	Sft	
	5	x 2	(7	+ 7-1/2	)	7	=	1015	Sft	
	6	x 2	(8	+ 8-1/2	)	7	=	1386	Sft	
	7	x 2	(9	+ 9-1/2	)	7	=	1813	Sft	
D/d opg	144	X 2 x 2-5 x 7						~~5040~~		
						Total.	=	~~29099~~ 24059	Sft	
							@	292.75	P.Sft	7043272/- ~~8518732~~

17- Providing and fixing 2" dia 18 SWG non-magnetic Stain less steel pipe (304) wall mounted hand rail comprising fixed with 2" long steel bracket with screws i/c the cost of hardware etc. & stainless steel welding & polishing complete in all respects as approved and directed by the Engineer Incharge.

Ramps	1 x	2 x	120	=	240	Rft
	1 x	2 x	90	=	180	Rft
	1 x	2 x	17	=	34	Rft
			TOTAL.	=	454	Rft
				@	505.4	P.Rft

229452

18- Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge

entrance	1 x	2 x	18	=	36	Rft
Stairs	2 x	1 x	32	=	64	Rft
Passages	4 x	2 x	18	=	144	Rft
			TOTAL.	=	244	Rft
				@	2361.45	P.Rft

576194

19- Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge China Verona.

Entrance	1 x	3 x	26 x	1 1/8	=	88	Sft
Stairs steps	1 x	3 x	6 x	1 1/8	=	18	Sft
Stair Steps	2 x	29 x	5 x	1 1/8	=	290	Sft
	2 x	1 x	5 x	5	=	50	Sft
Entrance Steps	4 x	3 x	5 x	1 1/8	=	68	Sft
	4 x	3 x	8 x	1 1/8	=	108	Sft
Toilets Vanities	6 x	1 x	12 x	2 1/4	=	162	Sft
	4 x	1 x	8 x	2 1/4	=	72	Sft
	7 x	3 x	12 x	1 1/4	=	1071	Sft
				TOTAL.	=	1926	Sft
				@		412.35	P.Rft

794289

20- Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1.2) cement sand mortor complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona

Entrance	1 x	3 x	26 x	1/2	=	39 Sft
Stairs steps	1 x	3 x	6 x	1/2	=	18 Sft

Stair Steps	2 x	29 x	5 x	1/2	=	290 Sft	
Entrance Steps	4 x	3 x	5 x	1/2	=	30 Sft	
	4 x	3 x	8 x	1/2	=	48 Sft	
Toilets Vanities Takkars	6 x	1 x	12 x	1/3	=	24 Sft	
	4 x	1 x	8 x	1/3	=	11 Sft	
	7 x	3 x	5 x	1/3	=	35 Sft	
				TOTAL.	=	495 Sft	
					@	204.6 P.Rft	101195

21- Pacca Brick work in 1:5 G.Floor

Prisoner wash room.	1 x	6 x	3/4 x	5	=	23 Cft	
Stairs steps	2 x	7.5 x	3/4 x	5	=	11 Cft	
				TOTAL.	=	34 Cft	
					@	31510.1 %-Cft	10635

22- Dismantling 1st class tile roofing.

OPD	1 x 324	x 43	=	13932 Sft	
	1 x 78	x 44	=	3432 Sft	
	5 x 150	x 32	=	24000 Sft	
	1 x 160	x 32	=	5120 Sft	
	1 x 40	x 32	=	1280 Sft	
	1 x 106	x 24	=	2544 Sft	
	2 x 129	x 10	=	2580 Sft	
	2 x 144	x 10	=	2880 Sft	
	1 x 64	x 46-1/2	=	2976 Sft	
		Total:	=	58744 Sft	
			@	1523.80 % Sft	895141/-

23- Single layer of tile on roof size 9"x4-1/2"x1-1/2" laid over 4" earth 1" mud plaster without bhoosa grouted with cement sand plaster (1:3) on top of RCC roof slab i/c polythene sheet. 500 gauge. without bitumen coating.

As item No 1				Total:	=	58744 Sft	
Deduct Khuras	235 x	2 x	2		=	940 Sft	
				Net	=	57804 Sft	
					@	~~7475.00~~ 11697.95 % Sft	~~43208567/-~~ 6761836/

24- Providing and applying torch-on plain waterproofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge 4 mm thick.

As item No 1	Total:	=	57804 Sft	
		@	~~96.75~~ Sft	~~5592546/-~~

25- Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect. 2" thick

As item No2	Total:	=	57804 Sft		
		@	~~11979.55~~ 9459.55	% Sft	~~6924674/-~~ 5467988/

26- Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with ~~'B' Class working pressure~~ pipe, in trenches, complete in all respects:- Dia 5" Nikasi Rain water Door Pipe

76 x 34		=	2584 Rft	
	Total	=	2584 Rft	
		@	~~440.65~~ 260.70 P.Rft	~~1138540/-~~ 673648/-

27- Providing and installing P.V.C. bends, of B.S.S. Class D working pressure.

152 - Nos	@	1586.00	Each	241072/-

28- Providing and installing P.V.C. Sockets, of B.S S. Class D working pressure.

76 - Nos	@	499.15	Each	37935/-

29- Making top khuras on roof size 2 ' x 2' 4 " thick.

176 - Nos	@	570.00	Each	100320/-

30- Removing old plaster.

ward pssge	5	x 100	x 8	=	4000	Sft	
	4	x 18	x 10	=	720	Sft	
	2	x 10	x 10	=	200	Sft	
	6	x 4	x 6	=	144	Sft	
	10	x 2-1/2	x 4	=	100	Sft	
OPD	2	x 10	x 5-1/2	=	110	Sft	
	10	x 6	x 6	=	360	Sft	
	2	x 15	x 2-1/2	=	75	Sft	
	10	x 6-1/2	x 5-1/2	=	358	Sft	
	2	x 15	x 20	=	600	Sft	
			Total:	=	6667	Sft	
				@	423.30	% Sft	28221/-

31- 3/4" thick cement sand plaster ratio 1:4
As item no 30.

= 6667 Sft				
	@	4379.60	Each	291988/-

32- Preparing surface and painting with Matt/Glossy high chemical resistant/hard wearing Polyurethane paint (Epoxy Paint) by sprayer/Brush i/c the cost of Primer coat , all material and labour complete in all respects as approved and directed by the Engineer Incharge. two coats.

Asd Item no 30	TOTAL. =	6667	Sft		
	@	44.45	Sft	296348/-

33- Distempering one coat old surface.

OPD	1	x 14	x 12	=	168	Sft
	1	x 14-3/4	x 12	=	177	Sft
	1	x 16-1/2	x 12	=	198	Sft
	1	x 6-1/2	x 12	=	78	Sft
	2	x 10	x 5-3/4	=	115	Sft
	1	x 10	x 12	=	120	Sft
	1	x 10	x 14	=	140	Sft
	1	x 16	x 14	=	224	Sft
	1	x 10	x 16	=	160	Sft
	1	x 8	x 16	=	128	Sft
	1	x 14-1/2	x 16	=	232	Sft
	1	x 12	x 16	=	192	Sft
	2	x 8	x 16	=	256	Sft
	1	x 10	x 16	=	160	Sft
	4	x 12	x 16	=	768	Sft
	1	x 73	x 32	=	2336	Sft
	1	x 15	x 10	=	150	Sft
	2	x 6	x 6	=	72	Sft
	2	x 12	x 16	=	384	Sft
	2	x 16	x 14	=	448	Sft
	2	x 10	x 6-3/4	=	135	Sft
	1	x 10	x 12	=	120	Sft
	1	x 17-1/8	x 12	=	206	Sft
	2	x 10	x 7-5/8	=	153	Sft
	1	x 16-1/4	x 12	=	195	Sft
	1	x 17-1/2	x 12	=	210	Sft
	1	x 14-1/2	x 12	=	174	Sft
	1	x 10	x 16	=	160	Sft
	1	x 12-5/8	x 16	=	202	Sft
	1	x 54	x 20	=	1080	Sft
	2	x 22-1/4	x 8	=	356	Sft
Operation	1	x 73	x 8	=	584	Sft

Theater.	2	x 28	x	20		=	1120 Sft
	1	x 15	x	10-3/4		=	161 Sft
	1	x 15	x	6		=	90 Sft
	1	x 4	x	5-3/4		=	23 Sft
	1	x 11-1/2	x	14		=	161 Sft
	2	x 19-1/2	x	19-1/4		=	751 Sft
	1	x 15	x	45		=	675 Sft
	1	x 6	x	8		=	48 Sft
	2	x 9-1/4	x	9-1/2		=	176 Sft
	1	x 8-3/4	x	9-1/2		=	83 Sft
	2	x 4	x	9		=	72 Sft
Ward	4	x 21-1/2	x	15		=	1290 Sft
	4	x 4-1/2	x	5		=	90 Sft
	4	x 2	x	12	x 10	=	960 Sft
	4	x 2	x	50	x 20	=	8000 Sft
	4	x 15	x	8		=	480 Sft
	4	x 8	x	10		=	320 Sft
	4	x 9	x	4-3/4		=	171 Sft
	4	x 16	x	4		=	256 Sft
	4	x 2	x	10	x 12	=	960 Sft
	4	x 9-1/2	x	12		=	456 Sft
	4	x 9-1/2	x	12		=	456 Sft
	4	x 163	x	8		=	5216 Sft
	4	x 50	x	20		=	4000 Sft
	4	x 2	x	10	x 12	=	960 Sft
	4	x 9-1/2	x	12		=	456 Sft
	4	x 90	x	8		=	2880 Sft
	2	x 18	x	12		=	432 Sft
	4	x 16	x	14-1/2		=	928 Sft
	4	x 10	x	10-1/2		=	420 Sft
	6	x 12	x	12		=	864 Sft
	6	x 12	x	14		=	1008 Sft
	2	x 38	x	8		=	608 Sft
	4	x 10	x	10		=	400 Sft
	4	x 15	x	10		=	600 Sft
	6	x 12	x	10		=	720 Sft
	2	x 50	x	20		=	2000 Sft
	1	x 163	x	8		=	1304 Sft
	2	x 12	x	14		=	336 Sft
	2	x 10	x	10		=	200 Sft
	1	x 100	x	8		=	800 Sft
	2	x 10	x	12		=	240 Sft
	2	x 12	x	14		=	336 Sft
					Total:	=	51588 Sft
						@	561.30 % Sft 289563/-

34- Scraping of old distempering.

1	x	2	(	14	+	12	)	8	=	416	Sft
1	x	2	(	14 3/4	+	12	)	8	=	428	Sft
1	x	2	(	16 1/2	+	12	)	8	=	456	Sft
1	x	2	(	6 1/2	+	12	)	7 1/2	=	278	Sft
2	x	2	(	10	+	5 3/4	)	7 1/2	=	473	Sft
1	x	2	(	10	+	12	)	8	=	352	Sft
1	x	2	(	10	+	14	)	8	=	384	Sft
1	x	2	(	16	+	14	)	8	=	480	Sft
1	x	2	(	10	+	16	)	8	=	416	Sft
1	x	2	(	8	+	16	)	8	=	384	Sft
1	x	2	(	14 1/2	+	16	)	8	=	488	Sft
1	x	2	(	12	+	16	)	8	=	448	Sft
2	x	2	(	8	+	16	)	8	=	768	Sft
1	x	2	(	10	+	16	)	8	=	416	Sft
2	x	2	(	12	+	16	)	8	=	896	Sft
1	x	2	(	73	+	28	)	11 1/2	=	2323	Sft
1	x	2	(	15	+	10	)	8	=	400	Sft
2	x	2	(	6	+	6	)	11 1/2	=	552	Sft
2	x	2	(	12	+	16	)	8	=	896	Sft
2	x	2	(	16	+	14	)	8	=	960	Sft
1	x	2	(	10	+	6 3/4	)	8	=	268	Sft
2	x	2	(	10	+	6 3/4	)	8	=	536	Sft
1	x	2	(	10	+	12	)	8	=	352	Sft
1	x	2	(	17 1/8	+	12	)	8	=	466	Sft
2	x	2	(	10	+	7 5/8	)	8	=	564	Sft
1	x	2	(	16 1/4	+	12	)	8	=	452	Sft
1	x	2	(	17 1/2	+	12	)	8	=	472	Sft
1	x	2	(	14 1/2	+	12	)	8	=	424	Sft
1	x	2	(	10	+	16	)	8	=	416	Sft
1	x	2	(	12 5/8	+	16	)	8	=	458	Sft

	1	x	2	(54	+ 20	)	12	=	1776	Sft
	2	x	2	(92 1/4	+ 8	)	14	=	5614	Sft
	1	x	2	(73	+ 8	)	14	=	2268	Sft
Operation	2	x	2	(28	+ 20	)	0	=	0	Sft
Theater	1	x	2	(15	+ 10 3/4	)	11 1/2	=	592	Sft
	1	x	2	(15	+ 6	)	11 1/2	=	483	Sft
	1	x	2	(4	+ 5 3/4	)	11 1/2	=	224	Sft
	1	x	2	(11 1/2	+ 14	)	7 1/2	=	383	Sft
	2	x	2	(19 1/2	+ 19 1/4	)	11 1/2	=	1783	Sft
	1	x	2	(15	+ 45	)	11 1/2	=	1380	Sft
	1	x	2	(4	+ 5 3/4	)	8	=	156	Sft
	1	x	2	(11 1/4	+ 14	)	8	=	404	Sft
	2	x	2	(19 1/2	+ 19 1/4	)	11 1/2	=	1783	Sft
	1	x	2	(45	+ 15	)	11 1/2	=	1380	Sft
	1	x	2	(6	+ 8	)	11 1/2	=	322	Sft
	2	x	2	(9 1/4	+ 9 1/2	)	11 1/2	=	863	Sft
	1	x	2	(8 3/4	+ 9 1/2	)	11 1/2	=	420	Sft
	2	x	2	(4	+ 9	)	11 1/2	=	598	Sft
Ward.	4	x	2	(21 1/2	+ 15	)	8	=	2336	Sft
	4	x	2	(4 1/2	+ 5	)	8	=	608	Sft
	8	x	2	(12	+ 10	)	8	=	2816	Sft
	8	x	2	(50	+ 20	)	8	=	8960	Sft
	4	x	2	(15	+ 8	)	8	=	1472	Sft
	4	x	2	(8	+ 10	)	8	=	1152	Sft
	4	x	2	(9	+ 4 3/4	)	8	=	880	Sft
	4	x	2	(16	+ 4	)	8	=	1280	Sft
	8	x	2	(10	+ 12	)	8	=	2816	Sft
	8	x	2	(9 1/2	+ 12	)	8	=	2752	Sft
	4	x	2	(9 1/2	+ 12	)	8	=	1376	Sft
	1	x	2	(163	+ 8	)	8	=	2736	Sft
	4	x	2	(50	+ 20	)	8	=	4480	Sft
	8	x	2	(10	+ 12	)	8	=	2816	Sft
	4	x	2	(9 1/2	+ 12	)	8	=	1376	Sft
	4	x	2	(90	+ 8	)	8	=	6272	Sft
	1	x	2	(18	+ 12	)	11 1/2	=	690	Sft
	4	x	2	(16	+ 14 1/2	)	11 1/2	=	2806	Sft
	4	x	2	(10	+ 10 1/2	)	11 1/2	=	1886	Sft
	6	x	2	(12	+ 12	)	11 1/2	=	3312	Sft
	6	x	2	(12	+ 14	)	11 1/2	=	3588	Sft
	2	x	2	(38	+ 8	)	11 1/2	=	2116	Sft
	4	x	2	(10	+ 10	)	8	=	1280	Sft
	4	x	2	(15	+ 10	)	8	=	1600	Sft
	6	x	2	(12	+ 10	)	8	=	2112	Sft
	2	x	2	(50	+ 20	)	8	=	2240	Sft
	1	x	2	(163	+ 8	)	8	=	2736	Sft
	2	x	2	(12	+ 14	)	8	=	832	Sft
	2	x	2	(10	+ 10	)	11 1/2	=	920	Sft
	1	x	2	(100	+ 8	)	8	=	1728	Sft
	2	x	2	(10	+ 12	)	8	=	704	Sft
							Total.	=	109726	Sft

Did opening W 1977 + Ven 7382 + D 3486 + 1050 = 13895 − 13895 = 95831 sft

Take 50% scraping. = ~~109726~~ 95831 x 50% = ~~54863 Sft~~ 47915 @ 761.90 % Sft ~~418002/-~~ 365068

35- Providing and applying wall putty of 2mm thicknessover plastered surface (new surface) to prepare the surface even and smooth complete in all respect.

TOTAL = ~~54863~~ 47915 Sft @ 233.60 % Sft ~~128160/-~~ 111929

36- Preparing surface and painting with emulsion paint 2-coats

95831

TOTAL = ~~109726~~ Sft @ 2034.65 % Sft ~~2232545/-~~ 1949825

37- Preparing surface and painting to door and windows any type on old surface 2-coats. one Coat 60% by 65831 1169.20 Two Coat 40% 43890 2065/05 769752/

2	x	2	x	4	x	7	=	112	Sft
2	x	3	x	4	x	7	=	168	Sft
						Total:	=	280	Sft

@ 1667 45 % Sft ~~4669/-~~ 906624/

38- Painting sashes fan light 2 coats old surface

8	x	2	x	7	x	8 1/2	=	952 Sft

	48	x	3	x	4	x	5			=	2880	Sft	
	38	x	2	x	5	x	5			=	1900	Sft	
	18	x	2	x	8	x	5			=	1440	Sft	
	60	x	2	x	2-1/4	x	2 1/4			=	608	Sft	
	92	x	2	x	7-3/4	x	7 3/4			=	11052	Sft	
	36	x	2	x	8	x	8 1/2			=	4896	Sft	
	4	x	34	x	2	x	4	x	1.5	=	1632	Sft	
	28	x	2	x	8	x	7 1/2			=	3360	Sft	
									Total:	=	28720	Sft	
										@	1014.00	% Sft	291221/-

39- P/Applying weather shield paint of approved quality on external surface of building old surface

Main Buildin Generator side	2	x	32	x	24-1/2					=	1568	Sft	
Ramp	2	x	55	x	18					=	1980	Sft	
									Total:	=	3548	Sft	
										@	1925.45	% Sft	68315/-

40- Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge.
2-1/4" x 2-1/4" x 9"

Ramp Pillars	18	x	4-1/4	x	12					=	918	Sft	
	1	x	10	x	12					=	120	Sft	
									Total	=	1038	Sft	
										@	181.45	Sft	188345/-

MAIN BUILDING.

41- Removing doors i/c chowkat

wards	4	x		4	x	4	x	7		=	448	Sft	
	6	x		2	x	3 1/2	x	7		=	294	Sft	
	4	x		1	x	4	x	7		=	112	Sft	
Rooms	52	x		1	x	4	x	7		=	1456	Sft	3486 Sft
offices OPD	16	x		1	x	3 1/2	x	7		=	392	Sft	
F.Floor	28	x		1	x	4	x	7		=	784	Sft	
Total.	110	Nos											
Lavatory Doors													
	60	x		1	x	2 1/2	x	7		=	1050	Sft	
									TOTAL	=	4536	Sft	
G.Total.	170	Nos											
										@	331.65	P.Sft	56381/-

42- Removing windows

	106	Nos								@	258.70	P.Sft	27422/-

43- 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)

main cooridoors	5	x	6	x	8 1/2					=	255	Sft	
	4	x	3 1/2	x	7					=	98	Sft	
	6	x	4	x	7					=	168	Sft	
									Total:	=	521	Sft	
										@	1242.45	P.Sft	647316/-

44- Providing and fixing 2 mm thick Double glazed aluminium windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.

W.	50	x	4	x	5					=	1000	Sft	

	2	x	3 1/2	x	6			=	42	Sft		
CW.	6	x	2	x	2			=	24	Sft		
	14	x	6	x	5			=	420	Sft		
	14	x	1 1/2	x	1 1/2			=	32	Sft		
	4	x	6	x	5			=	120	Sft		
	12	x	4	x	5			=	240	Sft		
	4	x	4 1/2	x	5 1/2			=	99	Sft		
	106						Total:	=	1977	Sft		
								@	2577.85	P.Sft		5096409/-

45- 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.
(ii) 1/2" Squar Bars

Ver oppenings	3	x	20	x	7	x	8 1/2	=	3570	Sft		
front OPD	1	x	18	x	7	x	8 1/2	=	1071	Sft		
wards	5	x	15	x	4	x	5	=	1500	Sft		
	5	x	17	x	4	x	2	=	680	Sft		
	1	x	8	x	8 1/4	x	8 1/2	=	561	Sft		
F.Floor	1	x	24	x	8	x	8 1/2	=	1632	Sft		
							Total:	=	7382	Sft		
								@	987.75	P.Sft		7291571/-

46- Providing and fixing 22-SWG /12X12 G.I wire mesh and expanded metal (diamond hole shape) 5mm thick duly fixed with M.S patti 1"x1/8" on M S angle iron frame 1½"X1½"X3/16" and braces @ 2 ft C/c horizontally & vertically i/c the cost of matt paint as approved & directed by the Engineer Incharge

Qty: as per item No.3								=	7382	Sft		
								@	493.05	P.Sft		3639695/-

47- Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer / powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.

Qty: as per item No.44	=	1977	X	1/2		(-)	=	989	Sft			
						Net:	=	989	Sft			
							@	493 05	P.Sft		487380/-	

48- Providing and fixing collapsible gate made of 2"x2"x"¼"(50x50x6 mm) tee iron at top and bottom, channel iron verticals ¾"x¼"x¼"x1/8" (20x6x6x3 mm) at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts,
handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black

3	x	6 1/2	x	8 1/2			=	166	Sft			
							@	1596 75	P.Sft		265061/-	

49- Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 16 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects:
a) single rebate 15" wide

From Item 41-A								=	3486	Sft		
							Total.	=	3486	Sft		
								@	727.25	P.Sft		2535194/-

a) single rebate 10.5" wide.

Item 1-B								=	1050	Sft		
							Total.	=	1050	Sft		
								@	621.90	P.Sft		652995/-

50- P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.

From Item - 41	=	3486	Sft			
	=	0	Sft			
Total.	=	3486	Sft			
			@	678.55	P Sft	2365425/-

51- Glazing with panes (16oz to 18oz) using deodar wooden fillets and putty.

30 x 3-1/4 x 5	=	488	Sft			
Total:	=	488	Sft			
			@	188 95	P. Sft	92208/-

52- French polishing complete on new surfsce.

1 x 2 x 3486	=	6972	Sft			
Total:	=	6972	Sft			
			@	5109.95	P. Sft	356266/-

53- Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave.

1 x 2 x 3486	=	6972	Sft			
Total:	=	6972	Sft			
			@	97.80	P Sft	681862/-

5	Upvc Door	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/c the cost of hardwares, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge					
	All Buildings	60 x 2-1/2 x 7	=	1050	Sft		
		Total:	=	1050	Sft		
					@	830.00	P. Sft

55- Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

	=	42	No			
Total:	=	42	No			
			@	2932.00	Each	123144/-

56- Providing and fixing heavy duty 3 mm thick SS Plate, die-cast metal auotomatic hydraulic operated door stopper (Concealed floor hinge) embeded in floor i/c the cost of Top pivot hinge,hardware, cutting of floor and making it good complete in all respect as approved and directed by the Engineer Incharg

	=	16	No			
Total:	=	16	No			
			@	5572.00	Each	89152/-

57- P/F 3/4" dia heavy duty sliding.bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge.12" (300 mm) long

	=	75	No			
Total:	=	75	No			
			@	926.00	Each	69450/-

58- Rubbing and polishing old grit/ mosaic floor, including repairing voids, uneven surface, complete in all respects.

WARD BLOCK	8 x 50 x 20	=	8000	Sft		
VER/PASSAGE	4 x 162-3/8 x 8	=	5196	Sft		
PASSAGE	1 x 70 x 8	=	560	Sft		
TO WARDS	1 x 122-3/4 x 10-1/4	=	1258	Sft		
OPD OFFICE PAS	1 x 122-3/4 x 10-1/4	=	1258	Sft		
	1 x 132-3/4 x 8-3/4	=	1162	Sft		

	1	x 129	x	9	=	1161	Sft
F FLOOR							
Operation	1	x 73	x	8	=	584	Sft
gynee	1	x 93-1/2	x	8	=	748	Sft

Total: = 19927 Sft (A)

@ 28.12 P Sft 560347/-

TOTAL. ~~101191888/-~~ = ~~88787124~~ 87139895/-

(CREDIT OF OLD MATERIAL).

1- Single layer of tiles. = 58744 Sft

Take 70 % tile re-useable = 58744 x 70% = 41120.8 Sft
= 41121 x 350% = 143923 Nos.

@ Rs. 6500/- 0% Nos Rs. 935498/-

Take 30 % batts = 58744 x 30% = 17623.2 Sft
= 17623.2 x 0.125 = 2202.9 Cft

@ Rs. 6000/- %- Cft Rs. 132174/-

2- Old Doors broken and un serviceable
170 Nos @ ~~8500.00~~ 5000 P.Sft ~~595000/-~~ 850000/-

3- Old windows un servicable
106 Nos @ ~~3000.00~~ 4000 P Sft ~~318000/-~~ 424000/-

87139895
~~88789124~~ 2341672

Total. ~~4080672/-~~ 2341672/-

Net = ~~101191888/-~~ - ~~1980672/-~~ = 99211216/-

84798223
~~86445500~~

Say Rs = ~~99211200~~/- 99211200

SUB DIVISIONAL OFFICER,
Buildings Division, Jhang.

MAIN BUILDING - INTERNAL SANITARY WORK

Based on MRS 2nd Bi-Annual from1st July 2022 to 31st Dec 2022

1	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.					
		22 - No.	@	19987 90	Each	439734/-
2	Providing and fitting white glazed earthen ware water closet, squartter type, with separate foot rest					
		42 - No.	@	4723.25	Each	198377/-
3	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc, coloured, with pedestal					
		22 - No.	@	4329.95	Each	95259/-
ii-	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and .waste coupling, etc, Under Counter Vanity Basin coloured,					
		16 - No.	@	7329.95	Each	117279/-
3	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, rubber connection, etc. complete. Porta turk plast					
		42 - No.	@	9600.00	Each	403200/-
4	Providing and fixing looking glass 55x40 cm 3 ft to 8 ft length and 2 ft height. size, and 5 mm thick, first quality.imported fixed on vanity counter.					
		32 - No.	@	2600 00	Each	83200/-
5	P/F C.P bib cock 3/4" dia					
		65 - No.	@	1015.00	Each	65975/-
6	P/F C.P tee stop cock 1/2" dia					
		112 - No.	@	955.00	Each	106960/-
7	Providing and fixing chromium plated shower rose:-					
	3/4" x6"	22 - No.	@	1195.00	Each	26290/-
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.					
		18 - No.	@	2228.75	Each	40118/-
9	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").					
		16 - No.	@	1096.85	Each	17550/-

10	P/F "P" trap 4" dia glazed							
		78 - No.			@	283.15	Each	22086/-
11	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge. Type (SDR 41/SN-4)							
	6" dia 160 mm	32 x 30 (12+15)	= 960	Rft	@	420.65	Rft	403824/-
	4" dia 110 mm	64 x 18	= 1152	Rft	@	217.25	Rft	250272/-
	2" dia 60 mm	64 x 12	= 768	Rft	@	88.45	Rft	67930/-
12	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular/Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-16 pipe							
	(3/4") 25 mm	64 x 30	= 1920	Rft	@	57.95	Rft	111264/-
	(1") 32 mm	32 x 20	= 640	Rft	@	93.65	Rft	59936/-
	(2") 63 mm	main connections	= 2000	Rft	@	327.45		654900/-
13	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. complete i to vii items							
		22 - No.			@	7600.00	Each	167200/-
14	Providing/fixing Gas water heater (Geyser) of specified capacity,comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/Ambassador / Super Asia/Canon i/c the cost of non return valve,imported thermostate,G.I. accessories, safety valve and making connection with existing water supply pipe line complete in all respects as approved and directed by the Engineer Incharge. 55gallons capacity							
		8 - No.			@	51546.35	Each	412371/-

Total: ~~3743725/-~~ 15000/

Old cost L.S

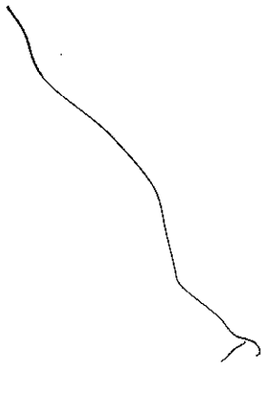
Say Rs. ~~3743700/-~~ 3728700/

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

ROUGH COST ESTIMATE FOR REVAMPING OF D.H.Q HOSPITAL JHANG.

MAIN BUILDING - ELECTRICFICATION INTERNAL

1-	S/E of AC electric ceilling fans 56" sweep pak/ asia/royal or any other approved by the engineer incharge.	15 ~~70~~ Nos		@	6500.00	Each	97500 ~~455000~~/-
2-	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.	15 ~~70~~ Nos		@	462.50	Each	6937.5 ~~32375~~/-
3-	S/E of bracket fans 24 " size SK , Asia, Pak Fans or any other approved.	20 ~~55~~ Nos		@	11000.00	Each	22000 ~~605000~~/-
4-	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge Steel Body 18 "	15 - Nos		@	4453.00	Each	66795/-
	Plastic Body 12 "	15 ~~28~~ - Nos		@	3133.00	Each	46995 ~~87724~~/-
5-	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge						
	Large 4 gang	100 ~~475~~ Nos		@	802.50	Each	80250 ~~381188~~/-
	Large 5 gang	50 ~~325~~ Nos		@	946.50	Each	47325 ~~307613~~/-
	Large 6 gang	50 ~~290~~ - Nos		@	1162.50	Each	58125 ~~337125~~/-
6-	Three Pin Power Plug 15-32 Amp	50 ~~230~~ - Nos		@	754.50	Each	37725 ~~473535~~/-
7-	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge						
	Small	40 ~~119~~ Nos		@	134.10	Each	5364 ~~15924~~/-
	Large	40 ~~342~~ Nos		@	158.10	Each	6324 ~~54041~~/-
8-	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-						
	3/0.74 mm (3/0.029")	= 2000 ~~10500~~	Rft	@	25.70	Rft	51400 ~~269850~~/-
	7/0.74 mm (7/0.029")	= 1500 ~~6000~~	Rft	@	40.75	Rft	61125 ~~244500~~/-
	7/1.12 mm (7/0.044")	= 1000 ~~2500~~	Rft	@	75.10	Rft	75000 ~~187750~~/-
	~~7/1.63 mm (7/0.064")~~	~~4500~~	~~Rft~~	~~@~~	~~175.50~~	~~Rft~~	~~789750/-~~
9-	Supply and erection of PVC pipe for wiring recessed in walls including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.						
	20 mm i/d 3/4" dia	= 450	Rft	@	81.70	Rft	36765/-



	40 mm i/d 2" dia.	= 390	Rft	@	145.60	Rft	56784/-
10-	S/E of SMD lights 12 watts						165,000
		= ~~280~~ 100	No	@	1650.00	Each.	~~462000~~/-
11-	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-						1593480
	70 mm sq (19/0.083") 4-core	= ~~1150~~ 600	Rft	@	2655.80	Rft	~~3054170~~/-
	120 mm sq (37/0.083") 4- core	= ~~980~~ 300	Rft	@	4633.45	Rft	1390035 ~~4540781~~/-
	Single core 630 mm	= ~~650~~ 240	Rft	@	3500.00	Rft	840000 ~~2275000~~/-
12-	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. 14 SWG	~~1200~~ 600	Rft	@	1090.65	Each	~~1308780~~/- 654390
	12" X 4"	~~550~~ 300	Rft	@	1276.85	Each	383055 ~~702268~~/-
	16" X4"	300	Rft	@	402.65	Each	120795/-
	6" X4" 16 SWG						
14-	Making holes in brick masonary wall 4" to 6" size for AC vent pipe						
		1 x 28	No	@	1350	Each	37800/-

Removing lights/DB

(-)10,000/

Total:	~~16603313~~/-
Say Rs.	~~16603300~~/- ~~1650330~~/- 5044185/

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab A.D.P # 660
For The Year 2022-23, One At D.H.Q Hospital Jhang.

TRUMA CENTRE **TOTAL PLINTH AREA.** **7810 Sft**

(Based on MRS 2nd Bi-Annual from 1st july 2022 to 31st Dec 2022.).

1- Dismentling P.C.C. 1:2:4 (1.5" thick).

emergency	1	x	22	x	18	=	396	Sft
x-ray / Dr	3	x	14	x	18	=	756	Sft
	3	x	12	x	18	=	648	Sft
waiting	2	x	12	x	19-1/2	=	468	Sft
	1	x	14	x	19-1/2	=	273	Sft
	1	x	16	x	18	=	288	Sft
	2	x	11-1/2	x	18	=	414	Sft
ward	1	x	20	x	18	=	360	Sft
female ward	1	x	25	x	18	=	450	Sft
change room	1	x	9	x	8	=	72	Sft
staff duty	1	x	9	x	9-1/4	=	83	Sft
sterlization	1	x	9	x	9-1/4	=	83	Sft
passage	1	x	142-3/4	x	8	=	1142	Sft
	1	x	142-3/4	x	7-3/4	=	1106	Sft
door cills	13	x	4	x	1-1/8	=	59	Sft
Ramp	1	x	120	x	6	=	720	Sft
porch	1	x	13-1/4	x	18-1/4	=	242	Sft
LAVATORY								
	1	x	9-3/4	x	10-7/8	=	106	Sft
	3	x	3-1/2	x	5	=	53	Sft
	5	x	4	x	6	=	120	Sft
F.FLOOR								
ward	1	x	22	x	18	=	396	Sft
	3	x	14	x	18	=	756	Sft
	3	x	12	x	18	=	648	Sft
	2	x	12	x	19-1/2	=	468	Sft
	1	x	14	x	19-1/2	=	273	Sft
	2	x	11-1/2	x	18	=	414	Sft
	1	x	20	x	18	=	360	Sft
	1	x	25	x	18	=	450	Sft
	1	x	14	x	13-3/4	=	193	Sft
	2	x	9	x	9-1/4	=	167	Sft
	1	x	142-3/4	x	8	=	1142	Sft
	1	x	142-3/4	x	7-3/4	=	1106	Sft
door cills	13	x	4	x	1-1/8	=	59	Sft
LAVATORY								
	1	x	9-3/4	x	10-7/8	=	106	Sft
	3	x	3-1/2	x	5	=	53	Sft
	5	x	4	x	6	=	120	Sft

Total: = 14550 Sft (A)

14550 x 0.125 = 1819 Cft @ 10666.65 % Cft 194026/-

2- Dismentling mud concrete.

Qty: as per item No. 1(A) = 14550 x 0.333 = 4845 Cft @ 2131.75 % Cft ~~103288/-~~

3- Dry rammed brick or stone ballast 1-1/2" to 2" gauge.

Qty: as per item No 2 = 4845 Cft @ 8891.50 % Cft ~~430793/-~~

4- Cement concrete plain i/c placing, compacting, finishing and curing complete (i/c screening and washing of stone aggregate) ratio 1:2:4.

Qty: as per item No. 1(A) = 14550 x ~~0.166~~ 0.125 = ~~2415~~ 1818 Cft @ 38178.90 % Cft ~~922020/-~~ 694082/

5- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Full body glazed tile 600mm x 600 mm / 24" x 24"

emergency	1	x	22	x	18	=	396 Sft
x-ray / Dr	3	x	14	x	18	=	756 Sft
	3	x	12	x	18	=	648 Sft
waiting	2	x	12	x	19-1/2	=	468 Sft
	1	x	14	x	19-1/2	=	273 Sft
	1	x	16	x	18	=	288 Sft
	2	x	11-1/2	x	18	=	414 Sft
ward	1	x	20	x	18	=	360 Sft
female ward	1	x	25	x	18	=	450 Sft
change room	1	x	9	x	8	=	72 Sft
staff duty	1	x	9	x	9-1/4	=	83 Sft
sterlization	1	x	9	x	9-1/4	=	83 Sft
passage	1	x	142-3/4	x	8	=	1142 Sft
	1	x	142-3/4	x	7-3/4	=	1106 Sft
door cills	13	x	4	x	1-1/8	=	59 Sft
F,FLOOR							
ward	1	x	22	x	18	=	396 Sft
	3	x	14	x	18	=	756 Sft
	3	x	12	x	18	=	648 Sft
	2	x	12	x	19-1/2	=	468 Sft
	1	x	14	x	19-1/2	=	273 Sft
	2	x	11-1/2	x	18	=	414 Sft
	1	x	20	x	18	=	360 Sft
	1	x	25	x	18	=	450 Sft
	1	x	14	x	13-3/4	=	193 Sft
	2	x	9	x	9-1/4	=	167 Sft
	1	x	142-3/4	x	8	=	1142 Sft
	1	x	142-3/4	x	7-3/4	=	1106 Sft
door cills	13	x	4	x	1-1/8	=	59 Sft
						=	13030 Sft
						@	340.55 P.Sft 4437367/-

6- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Non-Skid Chequred Tiles 300mmx300mm / 12" x 12".

RAMP MAIN BLDG	1	x	120	x	6	=	720
Total.						=	720 Sft
						@	211.6 P.Sft 152352

7- Dismantling glazed or encaustic tiles, etc

emergency	1	x	2	(	22	+	18	)	4	=	320 Sft
x-ray / Dr	3	x	2	(	14	+	18	)	4	=	768 Sft
	3	x	2	(	12	+	18	)	4	=	720 Sft
waiting	2	x	2	(	12	+	19-1/2	)	4	=	504 Sft
	1	x	2	(	14	+	19-1/2	)	4	=	268 Sft
	1	x	2	(	16	+	18	)	4	=	272 Sft
	2	x	2	(	11-1/2	+	18	)	4	=	472 Sft
ward	1	x	2	(	20	+	18	)	4	=	304 Sft
female ward	1	x	2	(	25	+	18	)	4	=	344 Sft
change room	1	x	2	(	9	+	8	)	4	=	136 Sft
staff duty	1	x	2	(	9	+	9-1/4	)	4	=	146 Sft
sterlization	1	x	2	(	9	+	9-1/4	)	4	=	146 Sft
passage	1	x	2	(	142-3/4	+	8	)	4	=	1206 Sft
	1	x	2	(	142-3/4	+	7-3/4	)	4	=	1204 Sft
door cills	13	x	2	(	4	+	1-1/8	)	4	=	533 Sft
F,FLOOR		x	2	(		+		)	4	=	0 Sft
ward	1	x	2	(	22	+	18	)	4	=	320 Sft
	3	x	2	(	14	+	18	)	4	=	768 Sft
	3	x	2	(	12	+	18	)	4	=	720 Sft
	2	x	2	(	12	+	19-1/2	)	4	=	504 Sft
	1	x	2	(	14	+	19-1/2	)	4	=	268 Sft

	2	x	2	(	11-1/2	+	18	)	4	=	472 Sft
	1	x	2	(	20	+	18	)	4	=	304 Sft
	1	x	2	(	25	+	18	)	4	=	344 Sft
	1	x	2	(	14	+	13-3/4	)	4	=	222 Sft
	2	x	2	(	9	+	9-1/4	)	4	=	292 Sft
	1	x	2	(	142-3/4	+	8	)	4	=	1206 Sft
	1	x	2	(	142-3/4	+	7-3/4	)	4	=	1204 Sft
door cills	13	x	2	(	4	+	1-1/8	)	4	=	533 Sft

D/d doors 2×52×3.5×4.m = 1456 −1456

TOTAL. = ~~14500~~ Sft 13044 Sft

Bath Areas

	5	x	2	(	9-3/4	+	10-7/8	)	7	=	1444 Sft
	3	x	2	(	3-1/2	+	5	)	7	=	357 Sft
	5	x	2	(	4	+	6	)	7	=	700 Sft
F F	5	x	2	(	9-3/4	+	10-7/8	)	7	=	1444 Sft
	3	x	2	(	3-1/2	+	5	)	7	=	357 Sft
	5	x	2	(	4	+	6	)	7	=	700 Sft

Total = 5002 Sft −910 = 4092 Sft

D/d doors 2×26×2.50×7.m = 910

G.TOTAL ~~14500~~ + ~~5002~~ = 17136 (~~15502~~) @ 2335.85 %.Sft 400271 (~~416828/-~~)

13044 4092

8- Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. 600mm x600 mm 24" x 24" size

As Item No 7 Total: = 13044 ~~14500~~ Sft @ 340.55 P.Sft 4442134 (~~4937975/-~~)

9- P/L LED Lining 2mm thick

xray troma 1 x 2 (14 + 18) 12 = 768 Sft

Total: = 768 Sft @ 1350 / ~~1450.00~~ P.Sft 1036800 / 1113600/-

10- P/L Anti Bacterial Material / Anti static anti microbial Vinyl Flooring self leveling complete in all respect.

O.T 1 x 22 x 18 = 396 Sft

Total. = 396 Sft @ 650 / ~~1150~~ P.Sft 257400 / ~~455400~~

11- 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

o.t 1 x 2 (22 + 18) 12 = 960 Sft

Total. = 960 Sft @ ~~750~~ P.Sft 1850 / ~~720000~~ 1776000/-

12- Supply and installation of Clip-in tile (0.6 mm -0.7 mm thick)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. (a) Sharp edges & flange19.5 mm 600 mmX 600 mm

Q.T 1 x 22 x 18 = 396 Sft

Total = 396 Sft @ 600 / ~~550~~ P.Sft 237600 / ~~217800~~

13- 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

O.T	1	x	22	x	18		=	396 Sft	
						Total.	=	396 Sft	550/- 217800/-
							@	~~1250~~ P.Sft	~~495000~~

14- 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.

	1	x	17	x	7	Total.	=	119 Rft
corners	1	x	60	x	4 1/2	Total.	=	270 Rft
							389 @	~~455~~ P.Rft 350 ~~476995~~ 136150

15- Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	2	x	9-3/4	x	10-7/8			212	
	6	x	3-1/2	x	5			105	
Bath	10	x	4	x	6		=	240 Sft	
cills	16	x	2-1/2	x	3/8		=	15 Sft	
						Total	=	572 Sft	
							@	240 P.Sft	137280

16- Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1.2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	2	x	2	(	9-3/4	+	10-7/8	)	7	=	578 Sft		
	6	x	2	(	3-1/2	+	5	)	7	=	714 Sft		
Bath	10	x	2	(	4	+	6	)	7	=	1400 Sft		
D/d doors 2 x 18 x 2.5 x 7 = 630											~~630~~		
										Total.	= ~~2692~~ 2062 Sft		
											@	292.75 P.Sft	603650/- ~~787937~~

17- Providing and fixing 2" dia 18 SWG non-magnetic Stain less steel pipe (304) wall mounted hand rail comprising fixed with 2" long steel bracket with screws i/c the cost of hardware etc. & stainless steel welding & polishing complete in all respects as approved and directed by the Engineer Incharge.

Ramps	1	x	2	x	120	=	240 Rft
					TOTAL	=	240 Rft
						@	505.4 P.Rft 121296

18- Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge

entrance	1	x	2	x	13	=	26 Rft
Stairs	1	x	2	x	32	=	64 Rft
					TOTAL	=	90 Rft

@ 2361.45 P.Rft 212531

19- Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge China Verona.

Entrance	1 x	4 x	18 x	1 1/8	=	81 Sft
Stairs steps	1 x	12 x	4 1/2 x	1 1/8	=	54 Sft
Stair Steps	2 x	29 x	5 x	1 1/8	=	290 Sft
	2 x	1 x	5 x	5	=	50 Sft
Toilets Vanities	1 x	1 x	8 x	2 1/4	=	18 Sft
				TOTAL	=	493 Sft

@ 412.35 P.Rft 203289

20- Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortor complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona

Entrance	1 x	3 x	18 x	1/2	=	27 Sft
Stairs steps	1 x	12 x	4 1/2 x	1/2	=	54 Sft
Toilets Vanities Takkars	1 x	1 x	8 x	1/3	=	3 Sft
				TOTAL	=	84 Sft

@ 204.6 P.Rft 17118

21 Dismantling 1st class tile roofing.

MAIN BUILDING TRUMA	1	x 142-3/4	x 55-1/8		=	7869 Sft
				Total:	=	7869 Sft

@ 1523.80 % Sft 119908/-

22- Single layer of tile on roof size 9"x4-1/2"x1-1/2" laid over 4" earth 1" mud plaster without bhoosa grouted with cement sand plaster (1:3) on top of RCC roof slab i/c polythene sheet. 500 gauge. without bitumen coating.

As item No 1				Total:	=	7869 Sft
Deduct Khuras	31 x	2 x	2		=	126 Sft
				Net	=	7743 Sft

@ 7475.00 % Sft 578796/-

23- Providing and applying torch-on plain waterproofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge 4 mm thick.

As item No 22 Total: = 7743 Sft

@ 96.75 Sft ~~749145/-~~

24- Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect. 2" thick

1½ Thick

As item No 22 Total: = 7743 Sft 9459/53 ~~732462/~~

@ ~~11979.55~~ % Sft ~~927586/-~~

25- Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with ~~'B' Class working pressure~~ pipe, in trenches, complete in all respects:- Nikasi

31 x 34	=	1070	Rft		
Total	=	1070	Rft		
	@	~~440.65~~ 260.70	P Rft	~~471496/-~~ 278948/-	

26- Providing and installing P.V.C. bends, of B S.S. Class D working pressure.

63 - Nos	@	1586.00	Each	99842/-

27- Providing and installing P.V.C. Sockets, of B.S S. Class D working pressure.

31.476 - Nos	@	499.15	Each	15711/-

28- Making top khuras on roof size 2 ' x 2' 4 " thick.

31 - Nos	@	570.00	Each	17941/-

30- . Removing old plaster.

1	x	50	x	8	=	400	Sft	
4	x	6	x	10	=	240	Sft	
					Total: =	640	Sft	
					@	423.30	% Sft	2709/-

31- 3/4" thick cement sand plaster ratio 1:4
As item no 30

=	640	Sft		
@	4379.60	Each		28029/-

32- Preparing surface and painting with Matt/Glossy high chemical resistant/hard wearing Polyurethane paint (Epoxy Paint) by sprayer/Brush i/c the cost of Primer coat , all material and labour complete in all respects as approved and directed by the Engineer Incharge. two coats.

Asd Item no 30

TOTAL. =	640	Sft			
@	~~44.45~~	~~Sft~~			~~28448/-~~

33- Distempering one coat old surface.

3	x	12	x	18	=	648	Sft
3	x	14	x	18	=	756	Sft
1	x	12	x	19-1/2	=	234	Sft
1	x	14	x	19-1/2	=	273	Sft
1	x	16	x	19-1/2	=	312	Sft
1	x	22	x	18	=	396	Sft
2	x	11-1/2	x	18	=	414	Sft
1	x	20	x	18	=	360	Sft
1	x	25	x	18	=	450	Sft
2	x	9	x	8	=	144	Sft
2	x	9	x	9-3/4	=	176	Sft
1	x	9-3/4	x	15	=	146	Sft
1	x	13	x	18	=	234	Sft
1	x	142-3/4	x	7-3/4	=	1106	Sft
1	x	142-3/4	x	8	=	1142	Sft
					Total: =	6791	Sft
		F.FLOOR			=	6791	
					Total: =	18969	Sft
					@	561.30	% Sft	106473/-

34- Scraping of old distempering.

3	x	2	(	12	+	18	)	8	=	1440	Sft
3	x	2	(	14	+	18	)	8	=	1536	Sft
1	x	2	(	12	+	19-1/2	)	8	=	504	Sft
1	x	2	(	14	+	19-1/2	)	8	=	536	Sft
1	x	2	(	16	+	19-1/2	)	8	=	568	Sft
1	x	2	(	22	+	18	)	8	=	640	Sft

2	x	2	(	11-1/2	+	18	)	8	=	944	Sft
1	x	2	(	20	+	18	)	8	=	608	Sft
1	x	2	(	25	+	18	)	8	=	688	Sft
2	x	2	(	9	+	8	)	8	=	544	Sft
2	x	2	(	9	+	9-3/4	)	8	=	600	Sft
1	x	2	(	9-3/4	+	15	)	8	=	396	Sft
1	x	2	(	13	+	18	)	8	=	496	Sft
1	x	2	(	142-3/4	+	7-3/4	)	8	=	2408	Sft
1	x	2	(	142-3/4	+	8	)	8	=	2412	Sft

Total: = 14320 Sft

F,Floor 2 x 14320 = 28640

Take 50% scraping. = 28640 x 50% = **14320 Sft**

@ 761.90 % Sft 109104/-

35- Providing and applying wall putty of 2mm thicknessover plastered surface (new surface) to prepare the surface even and smooth complete in all respect.

TOTAL = 28640 Sft

@ 233.60 % Sft 66903/-

36- Preparing surface and painting with emulsion paint 2-coats

2864. Sft @ 1169.20/Sft = 200915/
Take 60 17184 @ 1169.20/Sft = 200915/
Take 40 11456 @ 2065/85 = 236641/

TOTAL = 28640 Sft

@ 2034.65 % Sft ~~582724/-~~

37 Painting sashes fan light 2 coats old surface

20	x	3	x	4	x	5	=	1200	Sft
6	x	2	x	5	x	5	=	300	Sft
36	x	2	x	7	x	8	=	4032	Sft

Total. = 5532 Sft

@ 1014.00 % Sft 56094/-

38- P/Applying weather shield paint of approved quality on external surface of building old surface

2	x	142-3/4	x	1	=	286	Sft
2	x	55	x	1	=	110	Sft

Total: = 396 Sft

@ 1925.45 % Sft 7625/-

39- Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge.

2-1/4" x 2-1/4" x 9"

1	x	12	x	8	=	96	Sft
1	x	6	x	4	=	24	Sft

Total: = 120 Sft

@ 181.45 Sft 21774/-

40- Removing doors i/c chowkat wards

	4	x	1	x	4	x	7	=	112	Sft
	28	x	1	x	3 1/2	x	7	=	686	Sft
Total.	32	Nos							798	
Lavatory Doors										
	20	x	1	x	2 1/2	x	7	=	350	Sft

TOTAL = 1946 Sft

G.Total. 52 Nos

@ 331.65 P.Sft 17246/-

41- Removing windows

3 Nos @ 258.70 P.Sft 776/-

42- 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)

2 x 8 x 8 1/2			=	136	Sft			
	Total:		=	136	Sft			
				@		1242.45	P.Sft	168973/-

43- Providing and fixing 2 mm thick Double glazed aluminium windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.

W. 3 x 4 x 5			=	60	Sft			
	Total:		=	**60**	**Sft**			
				@		2577.85	P Sft	154671/-
Qty: as per item No 43 = 60 X 1/2	(-)		=	30	Sft			
	Net:		=	30	Sft			
				@		493.05	P.Sft	14792/-

44- Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 16 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects:
a) single rebate 15" wide

From Item 41-A			=	798	Sft			
	Total		=	798	Sft			
				@		727.25	P.Sft	580346/-

a) single rebate 10.5" wide.

Item 1-B			=	350	Sft			
	Total.		=	0	Sft			
				@		621.90	P Sft	0/-

45- P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2 5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.

From Item - 41			=	798	Sft			
			=	0	Sft			
	Total.		=	798	Sft			
				@		678.55	P.Sft	541483/-

46- Glazing with panes (16oz to 18oz) using deodar wooden fillets and putty

6 x 3-1/4 x 5			=	98	Sft			
	Total:		=	98	Sft			
				@		188.95	P. Sft	18517/-

47- French polishing complete on new surfsce.

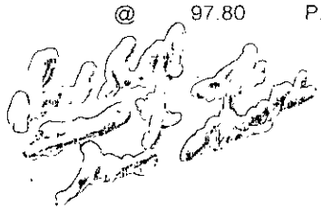
1 x 2 x 798			=	1596	Sft			
	Total:		=	1596	Sft			
				@		5109.95	P. Sft	81555/-

48- Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave.

1 x 2 x 798 = 1596 Sft

Total: = 1596 Sft @ 97.80 P. Sft 156089/-

49- 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/c the cost of hardwares, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge



20 x 2-1/2 x 7 = 350 Sft

Total: = 350 Sft @ ~~1130.00~~ 1250/- P. Sft ~~385500/-~~ 437500/-

50- Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

= 4 No

Total: = 4 No @ 2932.00 Each 11728/-

51- Providing and fixing heavy duty 3 mm thick SS Plate, die-cast metal auotomatic hydraulic operated door stopper (Concealed floor hinge) embeded in floor i/c the cost of Top pivot hinge,hardware, cutting of floor and making it good complete in all respect as approved and directed by the Engineer Incharg

= 3 No

Total: = 3 No @ 5572.00 Each 16716/-

52- P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge.12" (300 mm) long

= 32 No

Total: = 32 No @ 926.00 Each 29632/-

TOTAL. ~~22131220~~/- ~~19365833~~ 20071503/-

(CREDIT OF OLD MATERIAL).

1- Single layer of tiles. = 7869 Sft

Take 70 % tile re-useable = 7869 x 70% = 5508.3 Sft
= 5508 x 350% = 19279 Nos.

@ Rs. 6500/- 0% Nos Rs. 125314/-

Take 30 % batts = 7869 x 30% = 2360.7 Sft
= 2360.7 x 0.125 = 295.09 Cft

@ Rs. 6000/- %- Cft Rs. 17705/-

2- Old Doors broken and un serviceable
32 Nos @ ~~3500.00~~ 5000 P.Sft ~~112000/-~~ 160000/-

3- Old windows un servicable
3 Nos @ ~~3000.00~~ 4000 P.Sft ~~9000/-~~ 12000/-

20071503 - 315019 = 19365833 315011

Total. ~~2640197~~ 315012/-

Net = ~~22131220~~/- - ~~264019~~/- = 21867201/- 19756484 19050800 ~~21867200/-~~

A Say Rs. = ~~21867200~~/- ~~19365833~~/-

TRUAMA CENTRE - INTERNAL SANITARY WORK

Based on MRS 2nd Bi-Annual from1st July 2022 to 31st Dec 2022

1	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.					
		8 - No.	@	19987.90	Each	159903/-
2	Providing and fitting white glazed earthen ware water closet, squartter type, with separate foot rest					
		24 - No.	@	4723.25	Each	113358/-
3.	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc, coloured, with pedestal					
		8 - No.	@	4329.95	Each	34640/-
ii-	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc, Under Counter Vanity Basin coloured,					
		2 - No.	@	7329.95	Each	14660/-
3	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, rubber connection, etc. complete. Porta turk plast					
		24 - No.	@	9600.00	Each	230400/-
4	Providing and fixing looking glass 55x40 cm 3 ft to 8 ft length and 2 ft height. size, and 5 mm thick, first quality.imported fixed on vanity counter.					
		4 - No.	@	2600.00	Each	10400/-
5	P/F C.P bib cock 3/4" dia					
		24 - No.	@	1015.00	Each	24360/-
6	P/F C.P tee stop cock 1/2" dia					
		42 - No.	@	955.00	Each	40110/-
7	Providing and fixing chromium plated shower rose:-					
	3/4" x6"	8 - No.	@	1195.00	Each	9560/-
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.					
		10 - No.	@	2228.75	Each	22288/-
9	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").					
		16 - No.	@	1096.85	Each	17550/-

10	P/F "P" trap 4" dia glazed								
		25 -	No.			@	283.15	Each	7079/-
11	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge. Type (SDR 41/SN-4)								
	6" dia 160 mm	16 x	30 (12+15)	= 480	Rft	@	420.65	Rft	201912/-
	4" dia 110 mm	32 x	18	= 576	Rft	@	217.25	Rft	125136/-
	2" dia 60 mm	32 x	12	= 384	Rft	@	88.45	Rft	33965/-
12	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular/Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-16 pipe								
	(3/4") 25 mm	32 x	30	= 960	Rft	@	57.95	Rft	55632/-
	(1") 32 mm	16 x	20	= 320	Rft	@	93.65	Rft	29968/-
	(2") 63 mm	main connections		= 360	Rft	@	327.45		117882/-
13	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. complete i to vii items								
		6 -	No.			@	7600.00	Each	45600/-
14	Providing/fixing Gas water heater (Geyser) of specified capacity,comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/Ambassador / Super Asia/Canon i/c the cost of non return valve,imported thermostate,G.I. accessories, safety valve and making connection with existing water supply pipe line complete in all respects as approved and directed by the Engineer Incharge. 55gallons capacity								
		1 -	No.			@	51546.35	Each	51546/-

Total: ~~1345949~~/-

D/d 15000/

Say Rs. ~~1345900/-~~ 1370000/

SUB DIVISIONAL OFFICER
Buildings Sub Division, Jhang

ROUGH COST ESTIMATE FOR REVAMPING OF D.H.Q HOSPITAL JHANG.

TRUAMA CENTRE - ELECTRICFICATION INTERNAL

1-	S/E of AC electric ceilling fans 56" sweep pak/ asia/royal or any other approved by the engineer incharge.						
		10 - Nos		@	6500.00	Each	65000/-
2-	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.						
		10 - Nos		@	462.50	Each	4625/-
3-	S/E of bracket fans 24 " size SK , Asia, Pak Fans or any other approved.	15 ~~25~~ - Nos		@	11000.00	Each	165000 ~~275000/-~~
4-	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge Steel Body 18 "						
		3 - Nos		@	4453.00	Each	13359/-
	Plastic Body 12 "	6 - Nos		@	3133.00	Each	18798/-
5-	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge						
	Large 4 gang	10 ~~28~~ - Nos		@	802.50	Each	8025 ~~22470/-~~
	Large 5 gang	10 ~~45~~ - Nos		@	946.50	Each	9465 ~~42593/-~~
	Large 6 gang	10 ~~75~~ - Nos		@	1162 50	Each	11625 ~~87188/-~~
6-	Three Pin Power Plug 15-32 Amp						
		10 ~~55~~ - Nos		@	754 50	Each	7545 ~~41498/-~~
7-	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge						
	Small	7 - Nos		@	134.10	Each	939/-
	Large	7 ~~77~~ Nos		@	158.10	Each	~~12146/-~~ 1106·7
8-	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-						
	3/0.74 mm (3/0.029")	= 500 ~~4500~~	Rft	@	25.70	Rft	12850 ~~115650/-~~
	7/0.74 mm (7/0.029")	= 300 ~~4600~~	Rft	@	40.75	Rft	12225 ~~61425/-~~
	7/1.12 mm (7/0.044")	= 200 ~~2000~~	Rft	@	75.10	Rft	15020 ~~150200/-~~
	~~7/1.63 mm (7/0.064")~~	= ~~3200~~	~~Rft~~	~~@~~	~~175.50~~	~~Rft~~	~~561600/-~~
9-	Supply and erection of PVC pipe for wiring recessed in walls including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.						
	20 mm i/d 3/4" dia	= 350	Rft	@	81.70	Rft	28595/-

	40 mm i/d 2" dia.	= 200	Rft	@	145.60	Rft	29120/-
10-	S/E of SMD lights 12 watts						
		= ~~160~~ 40	No	@	1650.00	Each.	~~264,000/-~~ 66000
11-	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-						
	70 mm sq (19/0.083") 4-core	= ~~250~~ 120	Rft	@	2655.80	Rft	~~663950/-~~ 318696
12-	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. 14 SWG	~~250~~	~~Rft~~	~~@~~	~~1090.65~~	~~Each~~	~~272663/-~~
	12" X 4"	150	Rft	@	1276.85	Each	191528/-
	16" X4"	~~80~~	Rft	@	402.65	Each	~~32212/-~~
	6" X4" 16 SWG						
14-	Making holes in brick masonary wall 4" to 6" size for AC vent pipe						
		1 x 18	No	@	1350	Each	24300/-

Total:	~~2978557/-~~
	(-) 50,800
Say Rs.	~~2978600/-~~ 2928800/
	968702
	957782

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab A.D.P # 660 For The Year 2022-23, One At D.H.Q Hospital Jhang.

C,T SCAN BLOCK **TOTAL PLINTH AREA.** **5195 Sft**

(Based on MRS 2nd Bi-Annual from 1st july 2022 to 31st Dec 2022.)

1- Dismentling P.C.C. 1:2:4 (1.5" thick).

Passage	2	x 110	x	9-7/8	=	2173 Sft		
waiting hall	2	x 12	x	13-3/4	=	330 Sft		
	1	x 16	x	12-3/4	=	204 Sft		
waiting	1	x 16	x	13-7/8	=	222 Sft	3229 Sft	
	1	x 14	x	19-1/2	=	273 Sft		
door cills	6	x 4	x	1-1/8	=	27 Sft		
LAVATORY								
	3	x 6	x	7	=	126 Sft		
				Total:	=	3355 Sft (A)		
	3355	x 0.125			=	419 Cft		
					@	10666.65	% Cft	44693/-

2- Dismentling mud concrete.

Qty: as per item No. 1(A) = 3355 x 0.333 = 1117 Cft @ 2131.75 % Cft ~~23812/-~~

3- Dry rammed brick or stone ballast 1-1/2" to 2" gauge.

Qty: as per item No. 2 = 1117 Cft @ ~~8891.50~~ ~~% Cft~~ ~~99318/-~~

4- Cement concrete plain i/c placing, compacting, finishing and curing complete (i/c screening and washing of stone aggregate) ratio 1:2:4.

Qty: as per item No. 1(A) = 3355 x ~~0.166~~ 0.125 = ~~557~~ 419 Cft @ 38178.90 % Cft ~~212656/-~~ 15996/-

5- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Full body glazed tile 600mm x 600 mm / 24" x 24"

Passage	2	x 110	x	9-7/8	=	2173 Sft		
waiting hall	2	x 12	x	13-3/4	=	330 Sft		
	1	x 16	x	12-3/4	=	204 Sft		
waiting	1	x 16	x	13-7/8	=	222 Sft		
	1	x 14	x	19-1/2	=	273 Sft		
door cills	6	x 4	x	1-1/8	=	27 Sft		
					=	3229 Sft		
					@	340.55	P.Sft	1099636/-

6- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Non-Skid Chequred Tiles 300mmx300mm / 12" x 12".

Ramp	1	x 20	x	5	=	100
				Total.	=	100 Sft

										@	211.6	P.Sft	21160

7- Dismantling glazed or encaustic tiles, etc

emergency	2	x	1	(	110	+	0	) 4	=	880	Sft	
x-ray / Dr	2	x	1	(	110	+	1/2	) 4	=	884	Sft	
	2	x	2	(	12	+	13-3/4	) 4	=	412	Sft	
waiting	1	x	2	(	16	+	12-3/4	) 4	=	230	Sft	
	1	x	2	(	16	+	13-7/8	) 4	=	239	Sft	
								TOTAL.	=	2645	Sft	
Bath Areas												
	3	x	2	(	6	+	7	) 7	=	546	Sft	
								Total:	=	546	Sft	
G.TOTAL					2645	+	546	=		3191		
										@	2335.85	%.Sft	12754/-

8- Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. 600mm x600 mm 24" x 24" size.

As Item No 7	Total:	=	2645	Sft	
			@	340.55	P.Sft
					900755/-

9- 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.

corners	14 x	1 x	4 1/2	Total.	=	63	Rft	
						63 @	455	P.Rft
								~~28665~~

10- Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	3	x	6	x	7					126		
cills	3	x	2-1/2	x	3/4				=	6	Sft	
								Total.	=	132	Sft	
										@	240	P.Sft
												31680

11- Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	3	x	2	(	6	+	7	) 7	=	546	Sft	
	3											
								Total.	=	546	Sft	
										@	292.75	P.Sft
												159842

12- Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge

	entrance	1 x	2 x	13		=	26 Rft		
					TOTA	=	26 Rft		
						@	2361.45 P.Rft		61398

13- Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c.the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge China Verona.

	Entrance	1 x	4 x	18 x	1 1/8	=	81 Sft		
					TOTA	=	81 Sft		
						@	412.35 P.Rft		33400

14- Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortor complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona

	Entrance	1 x	3 x	18 x	1/2	=	27 Sft		
					TOTA	=	27 Sft		
						@	204.6 P.Rft		5524

15- Removing old plaster.

1	x 50	x 8		=	400 Sft			
2	x 6	x 10		=	120 Sft			
			Total:	=	520 Sft			
				@	423.30	% Sft		2201/-

16- 3/4" thick cement sand plaster ratio 1:4
As item no 30.

				=	520 Sft			
				@	4379.60	Each		22774/-

17- Preparing surface and painting with Matt/Glossy high chemical resistant/hard wearing Polyurethane paint (Epoxy Paint) by sprayer/Brush i/c the cost of Primer coat , all material and labour complete in all respects as approved and directed by the Engineer Incharge. two coats.

	Asd Item no 30			TOTAL. =	520 Sft			
				@	44.45	Sft		23114/-

18- Distempering one coat old surface.

2	x 110	x 9-7/8		=	2173 Sft			
4	x 12	x 13-3/4		=	660 Sft			
1	x 13	x 18		=	234 Sft			
4	x 16	x 13		=	832 Sft			
1	x 16	x 19-1/2		=	312 Sft			
2	x 12	x 12-3/4		=	306 Sft			
			Total:	=	4517 Sft			
			Total:	=	4517 Sft			
				@	561.30	% Sft		25354/-

19- Scraping of old distempering.

2	x 2	(110	+ 9-7/8	)	8	=	3836 Sft				
4	x 2	(12	+ 13-3/4	)	8	=	1648 Sft				
1	x 2	(13	+ 18	)	8	=	496 Sft				
4	x 2	(16	+ 13	)	8	=	1856 Sft				
1	x 2	(16	+ 19-1/2	)	8	=	568 Sft				
2	x 2	(12	+ 12-3/4	)	8	=	792 Sft				

Total: = 9196 Sft
1 x 9196 = 9196

Take 50% scraping. = 9196 x 50% = **4598 Sft**
@ 761.90 % Sft 35032/-

20- Providing and applying wall putty of 2mm thicknessover plastered surface (new surface) to prepare the surface even and smooth complete in all respect.

TOTAL = 9196 Sft
@ 233.60 % Sft 21482/-

60/40

21- Preparing surface and painting with emulsion paint 2-coats

9169 Sft 60% 5518
40% 3678

@ 1169/20 2065/18

~~TOTAL =~~ 9196 Sft
@ 2034.65 % Sft ~~187106/-~~

64512
75983

22- Painting sashes fan light 2 coats old surface

42 x 3 x 4 x 5 = 2520 Sft
6 x 2 x 5 x 5 = 300 Sft
36 x 2 x 7 x 8 = 4032 Sft
Total: = 6852 Sft
@ 1014.00 % Sft 69479/-

23- P/Applying weather shield paint of approved quality on external surface of building old surface

2 x 110 x 3 = 660 Sft
2 x 32 x 3 = 192 Sft
Total: = 852 Sft
@ 1925.45 % Sft 16405/-

24- Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge.
2-1/4" x 2-1/4" x 9"

1 x 20 x 6 = 120 Sft
Total: = 120 Sft
@ 181.45 Sft 21774/-

25- Removing doors i/c chowkat wards

6 x 1 x 4 x 7 = 168 Sft
4 x 1 x 3 1/2 x 7 = 98 Sft
Total. 10 Nos 266

Lavatory Doors

3 x 1 x 2 1/2 x 7 = 52 1/2 Sft
TOTAL = 584.5 Sft

G.Total. 13 Nos

@ 331.65 P.Sft 4311/-

26- 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)

2 x 8 x 8 1/2 = 136 Sft
Total: = 136 Sft
@ 1242.45 P.Sft 168973/-

27- Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 16 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects:
a) single rebate 15" wide

From Item 41-A	=	266	Sft			
Total.	=	266	Sft			
			@	727.25	P.Sft	193449/-

a) single rebate 10.5" wide.

Total	=	0	Sft			
			@	621.90	P.Sft	0/-

28- P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.

From Item - 41	=	266	Sft			
Total	=	266	Sft			
			@	678.55	P.Sft	180494/-

29- French polishing complete on new surfsce.

1 x 2 x 266	=	532	Sft			
Total:	=	532	Sft			
			@	5109.95	P. Sft	27185/-

30- Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave.

1 x 2 x 266	=	532	Sft			
Total:	=	532	Sft			
			@	97.80	P. Sft	52030/-

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/c the cost of hardwares, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge

3 x 2-1/2 x 7	=	53	Sft			
Total:	=	53	Sft			
			@	~~1130/00~~ 1200/-	P. Sft	~~59890/-~~ 63600/-

32- Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

	=	2	No			
Total:	=	2	No			
			@	2932.00	Each	5864/-

33- P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge.12" (300 mm) long

	=	4	No			
Total:	=	4	No			
			@	926.00	Each	3704/-

TOTAL. ~~3855913/-~~ ~~3742784~~ ~~3542467~~ 3607467/-

(CREDIT OF OLD MATERIAL).

1- Single layer of tiles. = 0 Sft

Take 70 % tile re-useable = 0 x 70% = 0 Sft
= 0 x 350% = 0 Nos.

@ Rs. 6500/- 0% Nos Rs. 0/-

Take 30 % batts = 0 x 30% = 0 Sft
= 0 x 0.125 = 0 Cft

@ Rs. 6000/- %- Cft Rs. 0/-

2- Old Doors broken and un serviceable
13 Nos @ ~~3500.00~~ 5000 P.Sft 45500/- 65000/

3- Old windows un servicable
0 Nos @ ~~3000.00~~ P.Sft 0/-

Total. ~~45500/-~~ 49400/

Net = ~~3855913/-~~ 3607467/- ~~45500/-~~ 65000/ = ~~3810413/-~~ 3742467/-

Say Rs. = 3810400/- ~~3810400/-~~ ~~3677800~~ 3542467/-

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

C.T SCAN - INTERNAL SANITARY WORK

Based on MRS 2nd Bi-Annual from1st July 2022 to 31st Dec 2022

1	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.					
		4 - No.	@	19987.90	Each	79952/-
2	Providing and fitting white glazed earthen ware water closet, squartter type, with separate foot rest					
		6 - No.	@	4723.25	Each	28340/-
3	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc, coloured, with pedestal					
		6 - No.	@	4329.95	Each	25980/-
ii-	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc, Under Counter Vanity Basin coloured,					
		0 - No.	@	7329.95	Each	0/-
3	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, rubber connection, etc. complete. Porta turk plast					
		6 - No.	@	9600.00	Each	57600/-
4	Providing and fixing looking glass 55x40 cm 3 ft to 8 ft length and 2 ft height. size, and 5 mm thick, first quality.imported fixed on vanity counter.					
		0 - No.	@	2600.00	Each	0/-
5	P/F C.P bib cock 3/4" dia					
		18 - No.	@	1015.00	Each	18270/-
6	P/F C.P tee stop cock 1/2" dia					
		28 - No.	@	955.00	Each	26740/-
7	Providing and fixing chromium plated shower rose.-					
	3/4" x6"	4 - No.	@	1195.00	Each	4780/-
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.					
		6 - No.	@	2228.75	Each	13373/-
9	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").					
		8 - No.	@	1096.85	Each	8775/-

10	P/F "P" trap 4" dia glazed								
		18 -	No.			@	283.15	Each	5097/-
11	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge. Type (SDR 41/SN-4)								
	6" dia 160 mm	5 x	30 (12+15)	=	150	Rft	@	420.65	Rft 63098/-
	4" dia 110 mm	10 x	18	=	180	Rft	@	217.25	Rft 39105/-
	2" dia 60 mm	10 x	12	=	120	Rft	@	88.45	Rft 10614/-
12	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular/Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-16 pipe								
	(3/4") 25 mm	10 x	30	=	300	Rft	@	57.95	Rft 17385/-
	(1") 32 mm	5 x	20	=	100	Rft	@	93.65	Rft 9365/-
	(2") 63 mm	main connections		=	300	Rft	@	327.45	98235/-
13	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. complete i to vii items								
		3 -	No.			@	7600.00	Each	22800/-
14	Providing/fixing Gas water heater (Geyser) of specified capacity,comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/Ambassador / Super Asia/Canon i/c the cost of non return valve,imported thermostate,G.I. accessories, safety valve and making connection with existing water supply pipe line complete in all respects as approved and directed by the Engineer Incharge. 55gallons capacity								
		1 -	No.			@	51546.35	Each	51546/-

DId = 15000/

Total: ~~581055~~/- 15000/

Say Rs. ~~581100~~/-

566100/

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

ROUGH COST ESTIMATE FOR REVAMPING OF D.H.Q HOSPITAL JHANG.

C.T SCAN - ELECTRICFICATION INTERNAL

1-	S/E of AC electric ceilling fans 56" sweep pak/ asia/royal or any other approved by the engineer incharge.						
		6 - Nos		@	6500.00	Each	39000/-
2-	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.						
		6 - Nos		@	462.50	Each	2775/-
3-	S/E of bracket fans 24 " size SK , Asia, Pak Fans or any other approved.						
		12 - Nos		@	11000.00	Each	132000/-
4-	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C: i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge						
	Steel Body 18 "	3 - Nos		@	4453.00	Each	13359/-
	Plastic Body 12 "	4 - Nos		@	3133.00	Each	12532/-
5-	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge						
	Large 4 gang	14 - Nos		@	802.50	Each	11235/-
	Large 5 gang	12 - Nos		@	946.50	Each	11358/-
	Large 6 gang	25 - Nos		@	1162.50	Each	29063/-
6-	Three Pin Power Plug 15-32 Amp						
		22 - Nos		@	754.50	Each	16599/-
7-	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge						
	Small	4 - Nos		@	134.10	Each	469/-
	Large	29 - Nos		@	158.10	Each	4542/-
8-	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-						
	3/0.74 mm (3/0.029")	= 2000	Rft	@	25.70	Rft	51400/-
	7/0.74 mm (7/0.029")	= 650	Rft	@	40.75	Rft	26488/-
	7/1.12 mm (7/0.044")	= 1200	Rft	@	75.10	Rft	90120/-
	~~7/1.63 mm (7/0.064")~~	= 100	Rft	@	175.50	Rft	~~17550/-~~
9-	Supply and erection of PVC pipe for wiring recessed in walls including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.						
	20 mm i/d 3/4" dia	= 120	Rft	@	81.70	Rft	9804/-

	40 mm i/d 2" dia.	=	75	Rft	@	145.60	Rft	10920/-
10-	S/E of SMD lights 12 watts							
		=	~~110~~ 30	No	@	1650.00	Each.	~~181500/-~~ 49500
11-	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-							
	70 mm sq (19/0.083") 4-core	=	~~190~~ 80	Rft	@	2655.80	Rft	~~504602/-~~ 212464
12-	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. 14 SWG		~~110~~	Rft	@	1090.65	Each	~~119972/-~~
	12" X 4"							
	16" X4"		75	Rft	@	1276.85	Each	95764/-
	6" X4" 16 SWG		25	Rft	@	402.65	Each	10066/-
14-	Making holes in brick masonary wall 4" to 6" size for AC vent pipe							
			1 x 10	No	@	1350	Each	13500/-

D/d Total: ~~1404617/-~~ (-) 20,000/-

Say Rs. ~~1404600/-~~ ~~1384600~~ 822940

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab A.D.P # 660
For The Year 2022-23, One At D.H.Q Hospital Jhang.

EMERGENCY BLOCK **TOTAL PLINTH AREA.** **10086 Sft**

(Based on MRS 2nd Bi-Annual from 1st july 2022 to 31st Dec 2022.).

1- Dismentling P.C.C. 1:2:4 (1.5" thick).

ward	6	x 18	x	25	=	2700	Sft
passage	2	x 8	x	25	=	400	Sft
	2	x 8	x	11-1/2	=	184	Sft
waiting	1	x 20-1/2	x	17-3/4	=	364	Sft
	3	x 12	x	14	=	504	Sft
	1	x 25	x	25	=	625	Sft
	2	x 7-1/4	x	15	=	218	Sft
surgery	2	x 20	x	18	=	720	Sft
passage	1	x 105	x	9	=	945	Sft
front waiting area	1	x 30	x	60	=	1800	Sft
door cills	5	x 5	x	3/4	=	19	Sft
door cills	6	x 4	x	3/4	=	18	Sft
LAVATORY							
	6	x 4	x	6-1/2	=	156	Sft
	3	x 6	x	6-1/2	=	117	Sft
	1	x 5	x	6	=	30	Sft
				Total	=	8800	Sft (A)

8800 x 0.125 = 1100 Cft @ 10666.65 % Cft 117333/-

2- Dismentling mud concrete.

Qty. as per item No. 1(A) = 8800 x 0.333 = 2930 Cft @ 2131.75 % Cft ~~62460~~/-

3- Dry rammed brick or stone ballast 1-1/2" to 2" gauge.

Qty: as per item No. 2 = 2930 Cft @ 8891.50 % Cft 260521/-

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

Qty: as per item No. 1(A) = 8800 x ~~0.166~~ 0.125 = ~~1461~~ 1100 Cft @ 38178.90 % Cft ~~557941~~ 419967/

5- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1.3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.
Full body glazed tile 600mm x 600 mm / 24" x 24"

ward	6	x 18	x	25	=	2700	Sft
passage	2	x 8	x	25	=	400	Sft
	2	x 8	x	11-1/2	=	184	Sft
waiting	1	x 20-1/2	x	17-3/4	=	364	Sft
	3	x 12	x	14	=	504	Sft
	1	x 25	x	25	=	625	Sft
	2	x 7-1/4	x	15	=	218	Sft
surgery	2	x 20	x	18	=	720	Sft
passage	1	x 105	x	9	=	945	Sft
front waiting area	1	x 30	x	60	=	1800	Sft
door cills	5	x 5	x	3/4	=	19	Sft
door cills	6	x 4	x	3/4	=	18	Sft
					=	8497	Sft

@ 340.55 P.Sft 2893653/-

6- Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Non-Skid Chequred Tiles 300mmx300mm / 12" x 12".

RAMP MAIN BLDG	1	x	20	x	6			=	120	
							Total.	=	120	Sft
								@	211.6 P.Sft	25392

7- Dismantling glazed or encaustic tiles, etc

ward	6	x	2	(	18	+	25	) 4	=	2064	Sft
passage	2	x	2	(	8	+	25	) 4	=	528	Sft
	2	x	2	(	8	+	11-1/2	) 4	=	312	Sft
waiting	1	x	2	(	20-1/2	+	17-3/4	) 4	=	306	Sft
	3	x	2	(	12	+	14	) 4	=	624	Sft
	1	x	2	(	25	+	25	) 4	=	400	Sft
	2	x	2	(	7-1/4	+	15	) 4	=	356	Sft
surgery	2	x	2	(	20	+	18	) 4	=	608	Sft
passage	1	x	2	(	105	+	9	) 4	=	912	Sft
front waiting area	1	x	2	(	30	+	60	) 4	=	720	Sft
door cills	5	x	2	(	5	+	3/4	) 4	=	230	Sft
door cills	6	x	2	(	4	+	3/4	) 4	=	228	Sft
D/L doors	2x32x3.5x4.00	=						TOTAL.	=	~~896~~ ~~7288~~ 6392	Sft
Bath Areas											
	6	x	2	(	4	+	6-1/2	) 7	=	882	Sft
	3	x	2	(	6	+	6-1/2	) 7	=	525	Sft
	1	x	2	(	5	+	6	) 7	=	154	Sft
	2x10x2.5x7.00	=						Total:	=	1561	Sft
G.TOTAL										~~8849~~ 7603	
									@	2335.85	%.Sft

-350 = 1211 Sft

~~7288~~ 6392 ~~1561~~ 1211 =

177595

~~364634~~

8- Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. 600mm x600 mm 24" x 24" size.

As Item No 7							Total:	=	~~7288~~ 6392	Sft
								@	340.55 P.Sft	2176796/-

~~2481928/-~~

9- 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.

corners	1	x	35	x	4		Total.	=	140	Rft
							140	@	~~455~~ 350/ P.Rft	~~63700~~ 49000/

10- Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	2	x	9-3/4	x	10-7/8				212	
	6	x	3-1/2	x	5				105	
Bath	10	x	4	x	6			=	240	Sft
cills	16	x	2-1/2	x	3/8			=	15	Sft
							Total.	=	572	Sft
								@	240 P.Sft	137280

11- Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.
12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

Bath	6	x	2	(4	+ 6-1/2	)	7	=	882	Sft
	3	x	2	(6	+ 6-1/2	)	7	=	525	Sft
Bath	1	x	2	(5	+ 6	)	7	=	154	Sft

2x10 x 2.5x7.00 = 350 −350

Total. = ~~1561~~ 1211 Sft

@ 292.75 P.Sft 354520 ~~456983~~

12- Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge China Verona.

Entrance	1 x	4 x	4 x	1 1/8	=	18 Sft
				TOTAL =		18 Sft
				@	412 35 P Rft	7422

13- Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortor complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona

Entrance	1 x	3 x	4 x	1/2	=	6 Sft
				TOTAL =		6 Sft
				@	204.6 P.Rft	1228

14- Dismantling 1st class tile roofing.

MAIN BUILDING TRUMA	1 x	105 x	61-1/2		=	6458 Sft
				Total. =		6458 Sft
				@	1523.80 % Sft	98407/-

15- Single layer of tile on roof size 9"x4-1/2"x1-1/2" laid over 4" earth 1" mud plaster without bhoosa grouted with cement sand plaster (1:3) on top of RCC roof slab i/c polythene sheet. 500 gauge. without bitumen coating.

As item No 1				Total: =		6458 Sft
Deduct Khuras	26 x	2 x	2		=	103 Sft
				Net =		6355 Sft 11697.85
				@	~~7475.00~~ % Sft	743360 475012/-

16- Providing and applying torch-on plain waterproofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge 4 mm thick.

As item No 22				Total: =		6355 Sft
				@	96.75 Sft	~~614845/-~~

17- Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect. 2" thick

As item No 22				Total: =		6355 Sft 9459.55
				@	~~11979.55~~ % Sft	601123/ ~~761281/-~~

18- Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with ~~B Class working pressure~~ Nikasi pipe, in trenches, complete in all respects:-

26 x 34	=	878	Rft				
Total	=	878	Rft				
				@	440.65	P.Rft	386891/-

19- Providing and installing P.V.C. bends, of B.S.S. Class D working pressure.

52 - Nos				@	1586.00	Each	81939/-

20- Providing and installing P.V.C. Sockets, of B S.S. Class D working pressure.

25.832 - Nos				@	499.15	Each	12894/-

21- Making top khuras on roof size 2 ' x 2' 4 " thick.

26 - Nos				@	570.00	Each	14724/-

22- Removing old plaster

1 x 70 x 8	=	560	Sft				
2 x 6 x 5	=	60	Sft				
Total:	=	620	Sft				
				@	423.30	% Sft	2624/-

23- 3/4" thick cement sand plaster ratio 1:4
As item no 30.

	=	620	Sft				
				@	4379.60	Each	27154/-

24- Preparing surface and painting with Matt/Glossy high chemical resistant/hard wearing Polyurethane paint (Epoxy Paint) by sprayer/Brush i/c the cost of Primer coat , all material and labour complete in all respects as approved and directed by the Engineer Incharge. two coats.

Asd Item no 30	TOTAL. =	620	Sft				
				@	44.45	Sft	27559/-

25- Distempering one coat old surface.

ward	6	x	18	x	25	=	2700	Sft
passage	2	x	8	x	25	=	400	Sft
	2	x	8	x	11-1/2	=	184	Sft
waiting	1	x	20-1/2	x	17-3/4	=	364	Sft
	3	x	12	x	14	=	504	Sft
	1	x	25	x	25	=	625	Sft
	2	x	7-1/4	x	15	=	218	Sft
surgery	2	x	20	x	18	=	720	Sft
passage	1	x	105	x	9	=	945	Sft
front waiting area	1	x	30	x	60	=	1800	Sft
door cills	5	x	5	x	3/4	=	19	Sft
door cills	6	x	4	x	3/4	=	18	Sft
	6	x	4	x	6-1/2	=	156	Sft
	3	x	6	x	6-1/2	=	117	Sft
	1	x	5	x	6			
Total:						=	8770	Sft
Total:						=	8770	Sft
					@	561.30	% Sft	49226/-

26- Scraping of old distempering.

ward	6	x	2	(	18	+	25	)	8	=	4128	Sft
passage	2	x	2	(	8	+	25	)	8	=	1056	Sft
	2	x	2	(	8	+	11-1/2	)	8	=	624	Sft
waiting	1	x	2	(	20-1/2	+	17-3/4	)	8	=	612	Sft
	3	x	2	(	12	+	14	)	8	=	1248	Sft
	1	x	2	(	25	+	25	)	8	=	800	Sft
	2	x	2	(	7-1/4	+	15	)	8	=	712	Sft
surgery	2	x	2	(	20	+	18	)	8	=	1216	Sft
passage	1	x	2	(	105	+	9	)	8	=	1824	Sft
front waiting area	1	x	2	(	30	+	60	)	8	=	1440	Sft
door cills	5	x	2	(	5	+	3/4	)	8	=	460	Sft

	door cills	6	x	2	(	4	+	3/4	)	8	=	456	Sft		
		6	x	2	(	4	+	6-1/2	)	7	=	882	Sft		
		3	x	2	(	6	+	6-1/2	)	7	=	525	Sft		
		1	x	3	(	5	+	6	)	7	=	231	Sft		
										Total:	=	16214	Sft		
										Total:	=	16214	Sft		
	Take 50% scraping.		=	16214	x	50%					=	**8107**	**Sft**		
											@	761.90	% Sft		61767/-

27- Providing and applying wall putty of 2mm thicknessover plastered surface (new surface) to prepare the surface even and smooth complete in all respect.

TOTAL	=	16214	Sft		
	@	233.60	% Sft		37876/-

28- Preparing surface and painting with emulsion paint 2-coats

TOTAL	=	16214	Sft	1169.20	113744/
	@	~~2034.65~~	% Sft	~~329698/-~~	+39 133970/

9728 6486 @ 2060/1.8

29- Painting sashes fan light 2 coats old surface

		42	x	3	x	4	x	5			=	2520	Sft		
		6	x	2	x	5	x	5			=	300	Sft		
		36	x	2	x	7	x	8			=	4032	Sft		
										Total:	=	6852	Sft		
											@	1014.00	% Sft		69479/-

30- P/Applying weather shield paint of approved quality on external surface of building old surface

		2	x	110	x	2-1/2					=	550	Sft		
		2	x	60	x	2-1/2					=	300	Sft		
										Total:	=	850	Sft		
											@	1925.45	% Sft		16366/-

31- Removing doors i/c chowkat

	wards	6	x	1	x	4	x	7			=	168	Sft		
		4	x	1	x	3 1/2	x	7			=	98	Sft		
	Total.	10	Nos									266			
	Lavatory Doors														
		11	x	1	x	2 1/2	x	7			=	192 1/2	Sft		
										TOTAL	=	724.5	Sft		
	G.Total.	21	Nos												
											@	331.65	P.Sft		6965/-

32- Removing windows

		30	Nos								@	258 70	P.Sft		7761/-

33- 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)

		2	x	8	x	8 1/2					=	136	Sft		
										Total:	=	136	Sft		
											@	1242.45	P.Sft		168973/-

34- Providing and fixing 2 mm thick Double glazed aluminium windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.

	W.	30	x	4	x	5					=	600	Sft		
		6	x	4	x	2					=	48	Sft		
										Total:	=	**648**	**Sft**		
											@	2577.85	P.Sft		1670447/-

35- Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer / powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.

Qty: as per item No.43 = 648 X 1/2 (-) = 324 Sft
Net: = 324 Sft
@ 493.05 P.Sft 159748/-

35- Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc (chowkat only) of 16 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects:
a) single rebate 15" wide

From Item 41-A = 266 Sft
Total. = 266 Sft
@ 727.25 P.Sft 193449/-

36- P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.

From Item - 41 = 266 Sft
= 0 Sft
Total. = 266 Sft
@ 678.55 P.Sft 180494/-

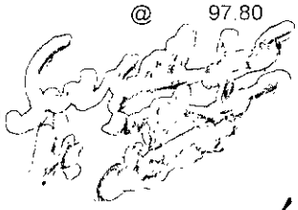
37- French polishing complete on new surfsce.

1 x 2 x 266 = 532 Sft
Total: = 532 Sft
@ 5109.95 P. Sft 27185/-

38- Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave.

1 x 2 x 266 = 532 Sft
Total: = 532 Sft
@ 97.80 P. Sft 52030/-

39- 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/c the cost of hardwares, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge



11 x 2-1/2 x 7 = 193 Sft
Total: = 193 Sft
@ ~~1878/75~~ 1200/- P. Sft ~~362715~~ ~~218090/-~~ 231600/-

40- Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

= 3 No
Total: = 3 No
@ 2932.00 Each 8796/-

41- Providing and fixing heavy duty 3 mm thick SS Plate, die-cast metal auotomatic hydraulic operated door stopper (Concealed floor hinge) embeded in floor i/c the cost of Top pivot hinge,hardware, cutting of floor and making it good complete in all respect as approved and directed by the Engineer Incharg

= 3 No
Total: = 3 No
@ 5572.00 Each 16716/-

42- P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge.12" (300 mm) long

= 6 No
Total: = 6 No @ 926.00 Each 5556/-

43- Providing and fixing 22-SWG /12X12 G.I wire mesh and expanded metal (diamond hole shape) 5mm thick duly fixed with M S patti 1"x1/8" on M.S angle iron frame 1½"X1½"X3/16" and braces @ 2 ft C/c horizontally & vertically i/c the cost of matt paint as approved & directed by the Engineer Incharge

Qty: as per item No.34 = 648 Sft @ 493.05 P.Sft 319496/-

44- 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.
(ii) 1/2" Squar Bars

648 Sft @ 987 75 P.Sft 640062/-

TOTAL. ~~13845815/-~~ 13526052 / 12019284 /-

(CREDIT OF OLD MATERIAL).

1- Single layer of tiles. = 6458 Sft

Take 70 % tile re-useable = 6458 x 70% = 4520.6 Sft
= 4521 x 350% = 15822 Nos.

@ Rs. 6500/- 0% Nos Rs. 102844/-

Take 30 % batts = 6458 x 30% = 1937.4 Sft
= 1937.4 x 0.125 = 242.18 Cft

@ Rs. 6000/- %- Cft Rs. 14531/-

2- Old Doors broken and un serviceable
21 Nos @ ~~3500.00~~ 5000 / P.Sft ~~73500/-~~ 79800 / 120000 /-

3- Old windows un servicable
30 Nos @ ~~3000.00~~ 4000 / P.Sft ~~90000/-~~ 150000 / 120000 /-

Total. ~~280874/-~~ 347374 / 317135

Net = ~~13845815/-~~ - ~~280874/-~~ = 13564941/-

Say Rs = 13564900/- ~~13564900/-~~ 13178700 / 11702109 /-

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang.

MAIN EMERGENCY BLOCK - INTERNAL SANITARY WORK

Based on MRS 2nd Bi-Annual from1st July 2022 to 31st Dec 2022

1	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.					
		4 - No.	@	19987.90	Each	79952/-
2	Providing and fitting white glazed earthen ware water closet, squartter type, with separate foot rest					
		6 - No.	@	4723.25	Each	28340/-
3	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set; waste pipe and waste coupling, etc, coloured, with pedestal					
		6 - No.	@	4329.95	Each	25980/-
ii-	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc, Under Counter Vanity Basin coloured,					
		0 - No.	@	7329.95	Each	0/-
3	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, rubber connection, etc. complete. Porta turk plast					
		6 - No.	@	9600.00	Each	57600/-
4	Providing and fixing looking glass 55x40 cm 3 ft to 8 ft length and 2 ft height. size, and 5 mm thick, first quality.imported fixed on vanity counter.					
		0 - No.	@	2600.00	Each	0/-
5	P/F C.P bib cock 3/4" dia					
		18 - No.	@	1015.00	Each	18270/-
6	P/F C.P tee stop cock 1/2" dia					
		28 - No.	@	955.00	Each	26740/-
7	Providing and fixing chromium plated shower rose:-					
	3/4" x6"	4 - No.	@	1195.00	Each	4780/-
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.					
		6 - No.	@	2228.75	Each	13373/-
9	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").					
		8 - No.	@	1096.85	Each	8775/-

10 P/F "P" trap 4" dia glazed

18 - No. @ 283.15 Each 5097/-

11 Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.
Type (SDR 41/SN-4)

6" dia 160 mm	5 x 30 (12+15)	= 150	Rft	@	420.65	Rft	63098/-
4" dia 110 mm	10 x 18	= 180	Rft	@	217.25	Rft	39105/-
2" dia 60 mm	10 x 12	= 120	Rft	@	88.45	Rft	10614/-

12 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular/Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned).
PN-16 pipe

(3/4") 25 mm	10 x 30	= 300	Rft	@	57.95	Rft	17385/-
(1") 32 mm	5 x 20	= 100	Rft	@	93.65	Rft	9365/-
(2") 63 mm	main connections	= 300	Rft	@	327.45		98235/-

13 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. complete i to vii items

3 - No. @ 7600 00 Each 22800/-

14 Providing/fixing Gas water heater (Geyser) of specified capacity,comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/Ambassador / Super Asia/Canon i/c the cost of non return valve,imported thermostate,G.I. accessories, safety valve and making connection with existing water supply pipe line complete in all respects as approved and directed by the Engineer Incharge. 55gallons capacity

1 - No. @ 51546.35 Each 51546/-

Total: ~~581055/-~~ 566055

Say Rs. ~~581100/-~~ 566000

Old L.S 15000

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

ROUGH COST ESTIMATE FOR REVAMPING OF D.H.Q HOSPITAL JHANG.

MAIN EMERGENCY BLOCK. - ELECTRICFICATION INTERNAL

1-	S/E of AC electric ceilling fans 56" sweep pak/ asia/royal or any other approved by the engineer incharge.						
		10 - Nos		@	6500.00	Each	65000/-
2-	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.						
		10 - Nos		@	462.50	Each	4625/-
3-	S/E of bracket fans 24 " size SK , Asia, Pak Fans or any other approved.						
		12 - Nos		@	11000.00	Each	132000/-
4-	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge Steel Body 18 "						
		2 - Nos		@	4453.00	Each	8906/-
	Plastic Body 12 "	6 - Nos		@	3133.00	Each	18798/-
5-	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge						
	Large 4 gang	18 - Nos		@	802.50	Each	14445/-
	Large 5 gang	8 - Nos		@	946.50	Each	7572/-
	Large 6 gang	32 - Nos		@	1162.50	Each	37200/-
6-	Three Pin Power Plug 15-32 Amp						
		26 - Nos		@	754.50	Each	19617/-
7-	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge						
	Small	5 - Nos		@	134.10	Each	603/-
	Large	33 - Nos		@	158.10	Each	5260/-
8-	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-						
	3/0.74 mm (3/0.029")	= 5200	Rft	@	25.70	Rft	133640/-
	7/0.74 mm (7/0.029")	= 3000	Rft	@	40.75	Rft	122250/-
	7/1.12 mm (7/0.044")	= 2000	Rft	@	75.10	Rft	150200/-
	~~7/1.63 mm (7/0.064")~~	~~= 3800~~	~~Rft~~	~~@~~	~~175.50~~	~~Rft~~	~~666900/-~~
9-	Supply and erection of PVC pipe for wiring recessed in walls including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.						
	20 mm i/d 3/4" dia	= 450	Rft	@	81.70	Rft	36765/-

	40 mm i/d 2" dia.	=	200	Rft	@	145.60	Rft	29120/-
10-	S/E of SMD lights 12 watts	=	~~110~~ 40	No	@	1650.00	Each.	~~181500/-~~ 66000
11-	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-							
	70 mm sq (19/0.083") 4-core	=	~~110~~ 55	Rft	@	2655.80	Rft	~~292138/-~~ 146069
12-	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. 14 SWG		~~145~~	~~Rft~~	~~@~~	~~1090.65~~	~~Each~~	~~158144/-~~
	12" X 4"							
	16" X4"		160	Rft	@	1276.85	Each	204296/-
	~~6" X4" 16 SWG~~		~~55~~	~~Rft~~	~~@~~	~~402.65~~	~~Each~~	~~22146/-~~
14-	Making holes in brick masonary wall 4" to 6" size for AC vent pipe							
			1 x 8	No	@	1350	Each	10800/-

D/d(2.5) ~~25~~ 20,000/

Total: 2321925/-

Say Rs. ~~2321900/-~~ 20,000/ ~~2301900~~ 1193141

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang

ABSTRACT OF COST NEW ROAD

Sr. No:	Description of items	Quantity	Rate	Unit	Amount
1	Dismentling of Road Eding or brick soling	1715 ~~923~~ Cft	863.50	P. %Cft	148164/ ~~7966~~ /-
2	Providing & Laying Sub Base Course of crushed stone aggregate from Chiniot quarry 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, c	6471 ~~10237~~ Cft	19025.40	P.% Cft	12311336 ~~1947554~~ /-
3	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects..	10340 Rft	52.80	P. Rft	545952 /-
4	Providing & Laying Base Course of crushed stone aggregate from Kirana quarry 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	2460 ~~17061~~ Cft	24089.29	P.% Cft	5925565/ ~~4109874~~ /-
5	Providing and laying bitumenious priming coat, using 10 Lbs carosin oil and 10 lbs binder per 100 Sft per 100 sft area	~~49700~~ Sft 49200	2293.45	P.% Sft	~~1139845~~ / 1128277/
6	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. 4.5% Bitumen (2" Thick)	~~49700~~ Sft 49200	~~16355.40~~ 15379.30	P.% Sft	~~8128634~~ /- 7566046/
7	Providing and laying Tuff pavers,having 7000 PSI,crushing strength of approved manufacturer,over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.	~~31020~~ Sft 10340/	141.90	P. Sft	~~4401738~~ /- 1467246/
8	Painting Traffic Lanes 5" wide (125mm), (1.5 mm thick), with thermoplastic (TP) Paint including Glass Beads, complete in al respect.	~~12925~~ Rft 12300	48.20	P. Rft	~~622985~~ /- 592860/
9	providing and fixing cat eyes double side, complete in al respect.	350 Nos	453.80	P. Nos	158830 /-
10	Prividing and fixing road stud	100 Nos	927.80	P. Nos	92780 /-
				Total:-	~~24156158~~ /- 43193360/

Sub Divisional Officer,

Executive Engineer,
~~Highway~~ Division,
JHANG

DETAIL OF QUANTITY

1 Dismentling of Road Eding or brick soling

	1x1.5x3280x0.25x0.75	=	923 Cft
		Total:- =	~~923~~ Cft

~~923~~ Cft

2 Providing & Laying Sub Base Course of crushed stone aggregate from Chiniot quarry 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, complete in all respect.

For tuff paver	2x1.5x3280x3x0.33	=	~~9742~~ Cft
Ramps	2x5x50x3x0.33	=	~~750~~ ~~495~~ Cft
		Total: - =	***~~10237~~ Cft***

~~10237~~ Cft

3 Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects..

	2x1.5x3280	=	9840 Rft
Ramps	2x5x50	=	500 Rft
		Total:- =	**10340 Rft**

10340 Rft

4 Providing & Laying Base Course of crushed stone aggregate from Kirana quarry 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, complete in all respect.

	1x1.5x3280x10x~~0.33~~	=	~~16236~~ Cft
Ramps	~~5x50~~x10x0.33	=	~~825~~ Cft
		Total: - =	***~~17061~~ Cft***

~~17061~~ Cft

5 Providing and laying bitumenious priming coat, using 10 Lbs carosin oil and 10 lbs binder per 100 Sft per 100 sft area

	1x1.5x3280x10	=	49200 sft
	~~5x50x10~~	=	500 Sft
		Total: - =	***~~49700~~ Sft***

~~49700~~ Sft

6 Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. 4.5% Bitumen (2" Thick)

	As per item No. 7	=	49700 Sft
		Total: - =	***49700 Sft***

49700 Sft

7 Providing and laying Tuff pavers,having 7000 PSI,crushing strength of approved manufacturer,over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.

	2x1.5x3280x3	=	~~29520~~ sft
	2x5x50x~~8~~ 10	=	5000/ ~~1500~~ sft
		Total: - =	***~~31020~~ Sft***

~~31020~~ Sft

8 Painting Traffic Lanes 5" wide (125mm), (1.5 mm thick), with thermoplastic (TP) Paint including Glass Beads, complete in al respect.

	1x1.5x3280x2.5	=	12300 Rft
	1x5x50x2.5	=	625 Rft
		Total: - =	***12925 Rft***

9	providing and fixing cat eyes double side, complete in al respect.	12925 Rft
10	Prividing and fixing road stud	350 Nos
		100 Nos

Sub Engineer

Sub Divisional Officer,
Building Sub Division Jhang

ANALYSIS OF RATES

DESCRIPTION OF ITEM *2nd Bi-Annual 2022.*

Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. 4.5% Bitumen (AWC)

	2nd Bi-Annual 2022.	**P. %Sft**
1	**Carpet 4.5%**	~~4511.65~~ 6997.75
2	Subsequent carriage from Krana Quarry to Site of work	692.30
	Lead 135 Km	~~363.11~~
	135-10x29.35+745.95/100x8.225	
	G. Total: -	~~4874.76~~ 7689.05
	Rate for 2" Thick: -	~~9749.52~~ 15379/30

Rate As Per 4.3%		
Bitumen As 4.5% 2467 x 4.5 / 100 x 0.4536	50.36 Kg	
Bitumen As 4.3% 2467 x 4.3 / 100 x 0.4536	48.12 Kg	
Saving of Bitumen	2.24 Kg	
Rate of Bitumen	**77.421 P. Kg**	**173.42**
Add 20% Contractor Profit		34.68
Total:-		**208.1**
Composite Rate As Per 4.3%	**9749.52 - 208.1**	**9541.42**

Sub Engineer

Sub Divisional Officer
Highway Sub Division
Jhang

Executive Engineer
Buildings Division
JHANG

ANALYSIS OF RATES

ully 2022 to 31th December2022

OF ITEM

and laying ***Sub Base Course*** of Stone Product of approved quality and including , mixing, spreading and compaction of Sub Base material to required depth, grade to eve 100% maximum modified AASHO dry density, including carriage of all material to site of work, except gravel and aggregate, complete in all respect crushed Stone aggregate.

1	***MRS 1st Jully 2022 to 31th December2022***	**P. %Cft**	**4951.50**
2	Subsequent carriage from Kirana to Site of work **Lead 107 Km** **107-10x30.45+769.25x1.2**		4467.48
	G. Total: -		**9418.98**

DESCRIPTION OF ITEM

Providing and laying ***Base Course*** of crushed stone aggregate of approved quality and grade and supply spreading of stone screening including placing mixing spreading and compaction of Base Course material to required camber and grade to achieve 100% maximum modfied AASHO dry density, including carriage of all material to site of work, complete in all respect.

1	**MRS 1st Jully 2022 to 31th December2022**	**P. %Cft**	**7498.65**
2	Subsequent carriage from Kirana Quarry **Lead 107 Km** **107-10x30.45+769.25x1.22**		4541.94
	G. Total: -		**12040.59**

DESCRIPTION OF ITEM

Providing Surface Treatment to roads, including supply of bitumen and bajri/crushed stone aggregate of approved quality,including cleaning of road surface, heating and spraying bitumen, spreading bajri and rolling with road roller (Including its operation cost, fuel and hire charges, etc) etc. complete including carriage of all materials to site of work,

Using 67 Lbs of Bitumen, and 7.50 Cft Bajri of normal size Per 100 Sft

1	**MRS 1st Jully 2022 to 31th December2022**	**P. %Sft**	**3772.55**
2	Subsequent carriage from Kirana Quarry to Site of work **Lead 107 Km** **107-10x30.45+769.25/100x7.5**		279.22
	G. Total: -		**4051.77**

DESCRIPTION OF ITEM

Providing Tripple Surface Treatment to roads, including supply of bitumen and bajri/crushed stone aggregate of approved quality,including cleaning of road surface, heating and spraying bitumen, spreading bajri and rolling with road roller (Including its operation cost, fuel and hire charges, etc) etc. complete including carriage of all materials to site of work, **Using 79 Lbs of Bitumen, and 9.75 Cft Bajri of normal size Per 100 Sft**

1	**MRS 1st Jully 2022 to 31th December2022**	**P. %Sft**	**5423.10**
2	Subsequent carriage from Kirana Quarry to Site of work **Lead 107 Km** **107-10x30.45+769.25/100x9.75**		362.98
	G. Total: -		**5786.08**

Sub Engineer

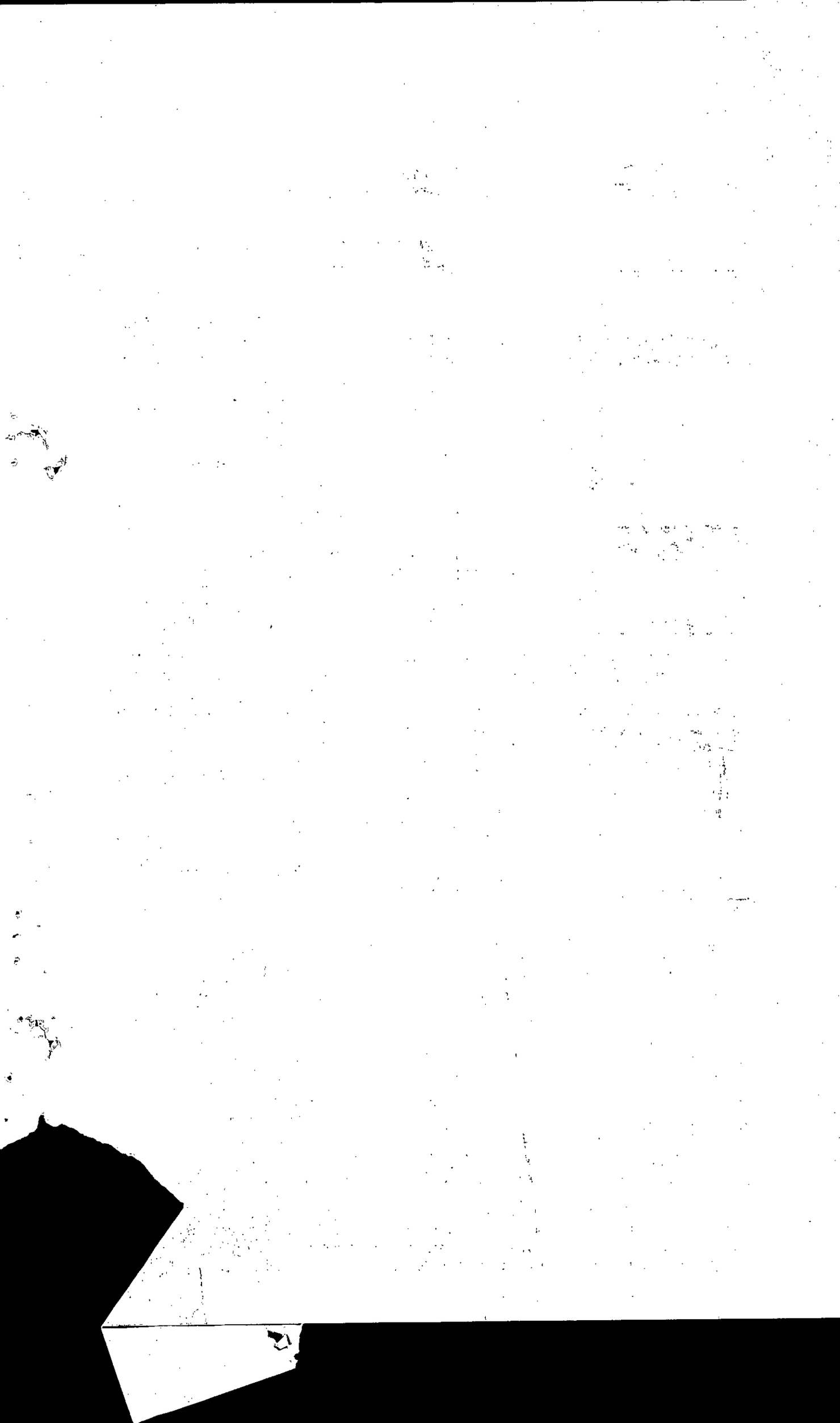
Sub Divisional Officer
Building Sub Division,
Jhang

DESCRIPTION OF ITEM

1st coat by using **4.00 Cft bajari** of Crushed Stone aggregate 1/2" nominal size (black colour) & **35 Lbs bitumen** after carrying out repairs to broken edges light surface patches & filling cavities including carriage of all material to site of work

		P. %Sft	
1	**MRS 1st Jully 2022 to 31th December2022**		**1943.80**
2	Subsequent carriage from Kirana Quarry to Site of work **MRS 1st Jully 2022 to 31th December2022** **107-10x30.45+769.25/100x4**		148.92
	G. Total: -		**2092.72**

DESCRIPTION OF ITEM



...atment to roads, including supply of bitumen and bajri/crushed ...d quality,including cleaning of road surface, heating and spraying ...and rolling with road roller (Including its operation cost, fuel and hire ... complete including carriage of all materials to site of work, **(32 Lbs Bitumen ... Cft Bajri).**

...oat by Using 18 Lbs of Bitumen, and 2.00 Cft Bajri of normal size 3/8" Per 100 Sft
...d Coat by Using 14 Lbs of Bitumen, and 1.50 Cft Bajri of normal size 1/4" Per 100 Sft

		P. %Sft
1	**MRS 1st Jully 2022 to 31th December2022**	**1828.75**
2	Subsequent carriage from Kirana Quarry to Site of work **Lead 107 Km** **107-10x30.45+769.25/100x3.5**	130.30
	G. Total: -	**1959.05**

DESCRIPTION OF ITEM

Providing Single Surface Treatment to roads, including supply of bitumen and bajri/crushed stone aggregate of approved quality,including cleaning of road surface, heating and spraying bitumen, spreading bajri and rolling with road roller (Including its operation cost, fuel and hire charges, etc) etc. complete including carriage of all materials to site of work, ***(40 Lbs Bitumen and 5.50 Cft Bajri).***

		P. %Sft
1	**MRS 1st Jully 2022 to 31th December2022**	**2232.95**
2	Subsequent carriage from Krana Quarry to Site of work **MRS 1st Jully 2022 to 31th December2022** **107-10x30.45+769.25/100x5.5**	204.76
	G. Total: -	**2437.71**

DESCRIPTION OF ITEM

Providing Double Surface Treatment to roads, including supply of bitumen and bajri/crushed stone aggregate of approved quality,including cleaning of road surface, heating and spraying bitumen, spreading bajri and rolling with road roller (Including its operation cost, fuel and hire charges, etc) etc. complete including carriage of all materials to site of work, **(39 Lbs Bitumen and 4.25 Cft Bajri).**

1st Coat by Using 25 Lbs of Bitumen, and 2.75 Cft Bajri of normal size 1/2" Per 100 Sft
2nd Coat by Using 14 Lbs of Bitumen, and 1.50 Cft Bajri of normal size 1/4" Per 100 Sft

		P. %Sft
1	**MRS 1st Jully 2022 to 31th December2022**	**2185.35**
2	Subsequent carriage from Kirana Quarry to Site of work **MRS 1st Jully 2022 to 31th December2022** **107-10x30.45+769.25/100x4.25**	158.22
	G. Total: -	**2343.57**

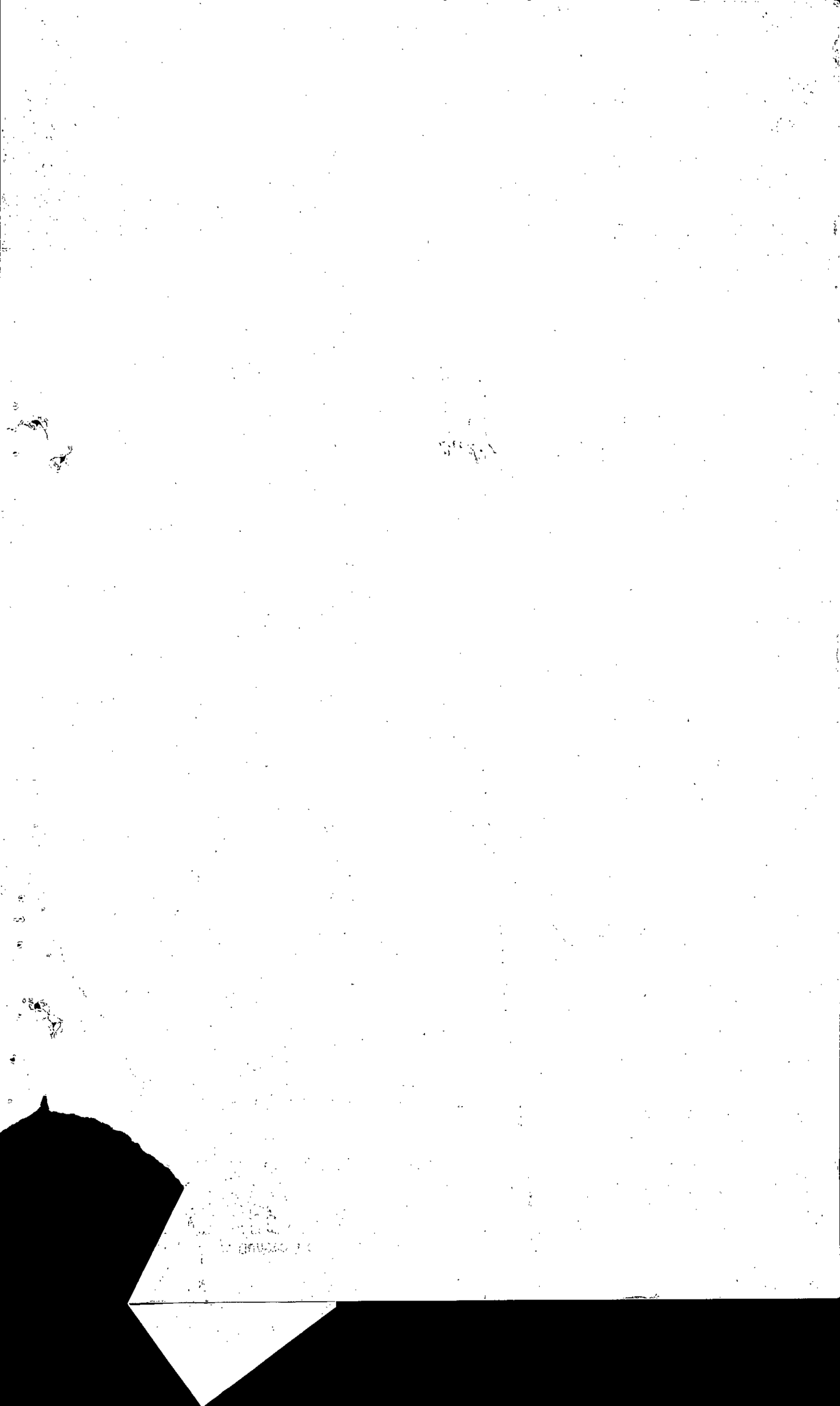
Sub Engineer

Sub Divisional Officer
Highway Sub Division,
Jhang.

DESCRIPTION OF ITEM

Resurfacing of road, using **2.50 Cft bajari** of Crushed Stone aggregate 1/2" nominal size (black colour) & **22 Lbs bitumen** after carrying out repairs to broken edges light surface patches & filling cavities including carriage of all material to site of work

		P. %Sft
1	**MRS 1st Jully 2022 to 31th December2022**	**1243.75**
2	Subsequent carriage from Krana Quarry to Site of work **Lead 107 Km** **107-10x30.45+769.25/100x2.5**	93.07
	G. Total: -	**1336.82**



DESCRIPTION OF ITEM

Resurfacing of road, using **2.00 Cft bajari** of Crushed Stone aggregate 3/8" nominal size (black colour) & **20 Lbs bitumen** after carrying out repairs to broken edges light surface patches & filling cavities including carriage of all material to site of work

		P. %Sft
1	**MRS 1st Jully 2022 to 31th December2022**	1128.75
2	Subsequent carriage from Krana Quarry to Site of work **Lead 107 Km** **107-10x30.45+769.25/100x2**	74.46
	G. Total: -	1203.21

Deputy District Officer (Roads),
Highway Sub Division, Jhang

Sub Divisional Officer,
Buildings Sub Division
JHANG

EXTERNAL SEWERAGE LINE / MANHOLE

1. Earth work excavation in open cutting for sewer and manhole as shown in drawings i/c 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 0' to 7' depth.

1 x 2175 x 3 x 4 1/2 = 29363 Cft
Total = 29363 Cft
@ 6683.30 %0 Cft 196242 /-

2. Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.
Type (SDR 34/SN-8)

10"dia 250 mm = 1350 Rft
@ 2667.10 P Rft 3600585 /-

12" dia 300 mm = 575 Rft
@ 4200.85 P Rft 2415489 /-

16" dia 400 mm = 250 Rft
@ 6870.15 P Rft 1717538 /-

3. Construction of circular manhole 3' dia

= 48 No.
@ 39300.00 Each 1899500 /-

4. Rehandling of earth with lead upto a single throw of Kassi, phoarah as shown lead upto 50ft.

Qty as item No.1 = 29363 Cft
@ 1914.00 %0 Cft 56201 /-

Total: - 9885554 /-

Say Rs: - 9886000 /-

Executive Engineer,
Buildings Division,
Jhang

Sub Divisional Officer
Buildings Sub Division,
Jhang

ROUGH COST ESTIMATE FOR REVAMPING OF D.H.Q HOSPITAL JHANG.

ELECTRICFICATION INTERNAL AND POWER WIRING

1-	S/E of AC electric ceilling fans 56" sweep pak/ asia/royal or any other approved by the engineer incharge.						
		100 - Nos			@	6500.00	Each	650000/-
2-	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.						
		100 - Nos			@	462.50	Each	46250/-
3-	S/E of bracket fans 24 " size SK , Asia, Pak Fans or any other approved.						
		70 - Nos			@	11000.00	Each	770000/-
4-	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge						
	Steel Body 18 "	20 - Nos			@	4453.00	Each	89060/-
	Plastic Body 12 "	32 - Nos			@	3133.00	Each	100256/-
5-	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge						
	Large 4 gang	625 - Nos			@	802.50	Each	501563/-
	Large 5 gang	610 - Nos			@	946.50	Each	577365/-
	Large 6 gang	535 - Nos			@	1162.50	Each	621938/-
6-	Three Pin Power Plug 15-32 Amp						
		350 - Nos			@	754.50	Each	264075/-
7-	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge						
	Small	156 - Nos			@	134.10	Each	20953/-
	Large	558 - Nos			@	158.10	Each	88249/-
8-	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-						
	3/0.74 mm (3/0.029")	= 26350	Rft		@	25.70	Rft	677195/-
	7/0.74 mm (7/0.029")	= 14500	Rft		@	40.75	Rft	590875/-
	7/1.12 mm (7/0.044")	= 7350	Rft		@	75.10	Rft	551985/-
	7/1.63 mm (7/0.064")	= 8500	Rft		@	175.50	Rft	1491750/-
9-	Supply and erection of PVC pipe for wiring recessed in walls including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.						
	20 mm i/d 3/4" dia	= 1150	Rft		@	81.70	Rft	93955/-
	40 mm i/d 2" dia.	= 850	Rft		@	145.60	Rft	123760/-

10-	S/E of SMD lights 12 watts						
		= 350	No	@	1650.00	Each.	5775000/-
11-	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-						
	70 mm sq (19/0.083") 4-core	= 1600	Rft	@	2655.80	Rft	4249280/-
	120 mm sq (37/0.083") 4- core	= 980	Rft	@	4633.45	Rft	4540781/-
	Single core 630 mm	= ~~1400~~	~~Rft~~	~~@~~	~~3500.00~~	~~Rft~~	~~4900000/-~~
12-	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. 14 SWG						
	12" X 4"	1800	Rft	@	1090.65	Each	1963170/-
	16" X4"	1450	Rft	@	1276.85	Each	1851433/-
	6" X4" 16 SWG	670	Rft	@	402.65	Each	269776/-
13-	Low voltage switch gear system complete in all respect.						
		1	Job	@	22397800	Each	22397800/-
14-	Making holes in brick masonary wall 4" to 6" size for AC vent pipe						
		1 x 28	No	@	300	Each	8400/-

Total:	~~48047368/-~~ 43117368
Say Rs.	~~48017400/-~~ 43170000/-

Sub Divisional Officer,
Buildings Sub Division
JHANG

ROUGH COST ESTIMATE FOR REVAMPING OF D.H.Q HOSPITAL JHANG.

ELECTRICFICATION INTERNAL AND POWER WIRING

1	Low voltage switch gear system complete in all respect.					
		I	Job	@	21745395 Each	21745395/-
					Total:	~~21745395/-~~
	Add 13% ~~Contractor & O.H Charges~~.					~~652362/-~~
					Total:	~~22397757/-~~
					Say Rs.	~~22397800/-~~ 21745395 9852000

Sub Divisional Officer,
Buildings Sub Division
JHANG

PEMPAK

PERFECT ELEKTRO MEK
PAKISTAN (PVT.) LIMITED

Plot No 4, Adj. ATS Lane, Kacha Industrial Estate,
4-Km Kahna Kacha Road, Lahore - Pakistan.
UAN: +92-42-111-736725 (111-PEMPAK)
Ph: +92-42-3597-8060-63
E-mail: info@pempak.com http://www.pempak.com

Ref.: D/FM/447523/14072
Muharram 6th, 1444AH.
August 05, 2022

Messer,
The Executive Engineer.
Building Division (PWD)
Jhang-Pakistan.

Subject: **QUOTATION FOR LOW VOLTAGE SWITCHGEAR.**
Project: Revamping of DHQ Hospital Jhang

Dear Sir,

Thank you very much for your subject inquiry. We have gone through your requirement & specification and are pleased to submit our most competitive and comprehensive revised offer accordingly as under.

The summary of offer is under.

Sr.	Description of Equipment's.		Amount
01	Low Voltage Switchgear: *Complete in all aspect as per your Requirements.*		~~18,628,500.00~~
	Total Amount of Offer (Excluding GST):	**Pak Rs.**	~~18,628,500.00~~ 18,852,000
	~~ADD GST 17%:~~	~~Pak Rs.~~	~~3,166,845.00~~
	~~**Net Amount of Offer (Including GST):**~~	~~**Pak Rs.**~~	~~21,795,345.00~~
Pak Rupees: *Twenty-One Million Seven Hundred Ninety-Five Thousand Three Hundred Forty-Five*			

This offer is based on the following **Terms and conditions:**

- The prices Ex-works duly Packed for inland transportation.
- Payment will be 50% advance, balance after final inspection to your entire satisfaction against delivery at floor.
- The completion period will be 5-7 weeks after the technically and financially confirmed order.
- The equipment will be under complete Guarantee/Warrantee for the period of one year.
- The prices are valid for 15 days afterwards subject to the reconfirmation.
- The components offered are subject to the availability otherwise approved equivalent.
- The standard and latest amended Force Majored clause will be fully applicable throughout the contract.
- The offer is based on the present duties/Taxes structure. Any change will be charged at actual.

Thanking you in Anticipation.

Perfectly yours,

Engr. Muhammad Arshad
Sr. Sales Engineer
0345-400-9982

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

***

PERFECTION WITH CONVENIENCE

PEMPAK

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Quotation for L.V Switchgear.
M/s. The Executive Engineer
Ref: D/FM/447523/14072 Dated 05-08-22

SCHEDULE OF PRICES FOR LV SWITCHGEAR.
Revamping of DHQ Hospital Jhang

PRICES:

Sr.#	Description of Equipment		Quantity	Rate	Amount
LV SWITCHGEAR.					
01	L.T. Main Panel Board (LTMPB)	(As Per Given SLD)	01 Set.	8,776,500.00	~~8,776,500.00~~
02	Main Distribution Board (MDB-1)	(As Per Given SLD)	01 Set.	858,500.00	858,500.00
03	Main Distribution Board (MDB-2)	(As Per Given SLD)	01 Set.	1,065,000.00	1,065,000.00
04	PSMDB-1	(As Per Given SLD)	01 Set.	606,000.00	606,000.00
05	PSMDB-2	(As Per Given SLD)	01 Set.	483,500.00	483,500.00
06	SMDB-EW	(As Per Given SLD)	01 Set.	394,500.00	394,500.00
07	SMDB-F-LP	(As Per Given SLD)	01 Set.	559,000.00	559,000.00
08	SMDB-MS	(As Per Given SLD)	01 Set.	416,000.00	416,000.00
09	LSMDB-1	(As Per Given SLD)	01 Set.	227,500.00	227,500.00
10	LSMDB-2	*(As Per Given SLD)*	01 Set.	227,500.00	227,500.00
11	FEEDER PILLER	(As Per Given SLD)	01 Set.	139,000.00	139,000.00
12	DB MASJID	(As Per Given SLD)	01 Set.	137,500.00	137,500.00
13	DB-WF	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
14	DBLP-ER	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
15	DB-M	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
16	LDB-MS1	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
17	LDB-MS2	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
18	PDB-MS1	(As Per Given SLD)	01 Set.	137,500.00	137,500.00
19	PDB-MS2	(As Per Given SLD)	01 Set.	137,500.00	137,500.00
20	LDB-EW1	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
21	LDB-EW2	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
22	PDB-EW1	(As Per Given SLD)	01 Set.	137,500.00	137,500.00
23	PDB-EW2	(As Per Given SLD)	01 Set.	137,500.00	137,500.00
24	LDB-01 to LDB-14	(As Per Given SLD)	14 Sets.	103,000.00	1,442,000.00
25	PDB-01,02	(As Per Given SLD)	02 Sets.	159,500.00	319,000.00
26	PDB-03 to PDB-09,12,14	(As Per Given SLD)	09 Sets.	117,000.00	1,053,000.00
27	PDB-10,11,12	(As Per Given SLD)	03 Sets.	137,500.00	412,500.00
28	DB-XRAY	(As Per Given SLD)	01 Set.	137,500.00	137,500.00
29	Feeder Pillar	(As Per Given SLD)	01 Set.	103,000.00	103,000.00
		Total Amount of Offer (Excluding GST):		Pak Rs.	~~18,628,500.00~~

Total Amount of Offer All Items (Excluding GST):	Pak Rs.	~~18,628,500.00~~

9852000

M. Arshad

Engr. Muhammad Arshad
Sr. Sales Engineer
0345-400-9982

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

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Quotation for L.V Switchgear.
M/s. The Executive Engineer
Ref: D/FM/447523/14072 Dated 05-08-22

SCHEDULE OF SPECIFICATION FOR LOW VOLTAGE SWITCHGEAR

Revamping of DHQ Hospital Jhang

L.V SWITCHGEAR: PEMPAK make, 14/16SWG mild steel sheet fabricated, free standing Wall/Floor Mounting, indoor, Front access, insulation class 600Volts, Incoming and outgoing connections from Top or bottom as per site requirement, door to body earth with flexible copper cable suitable for 415VAC, 3 Phase 4 wire, 50Hz TPN&E system, having rated service short circuit breaking capacity Icu 36KA I/C at 415VAC confirming to IEC-947-2 to accommodate the given number of circuit components, instruments & Accessories, assembled and wired with Electrolytic Copper Bus bars at 50deg Centigrade and cables as per standard practices and relevant standards duly cleaned down to bare shining metal phosphate and 100 microns powder painted of color RAL 7032 baked at 225deg Cg complete in all respect as per given specifications and equipped as under.

01 L.T. Main Panel Board (LTMPB) 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING-01 (From 630KVA T/F-01)**			
01	1250A TP ACB 65KA	Terasaki/Schneider	AR212S	01 No.
02	Motor Mechanism for ACB	Terasaki/Schneider	MOM	01 No.
03	Under Voltage Trip for ACB	Terasaki/Schneider	UVT	01 No.
04	Shunt Trip for ACB	Terasaki/Schneider	ST	01 No.
05	Synch Module with Battery & Charger	DSE/Eqv.	8660	01 No.
06	Phase Failure Relay	Entes/Schneider	LTMR	01 No.
07	Surge Protective Device SPD	DEHN/Eqv.	4P 100KA	01 No.
08	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	03 Nos.
09	Digital Ampere Meter	Entes/ Schneider	96x96mm	03 Nos.
10	Current Transformer 1200/5A	Fico/Metelx	RLC	03 Nos.
11	Indication Lights (R+Y+B+ON+OFF)	Schneider/Himel	Led Type	05 Nos.
12	ON/OFF Push Button	Schneider/Himel	22mm	02 Nos.
13	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
14	2500A TP+N+E Cu Bus Bar			
B	**INCOMING-02 (From 630KVA T/F-02)**			
01	1250A TP ACB 65KA	Terasaki/Schneider	AR212S	01 No.
02	Motor Mechanism for ACB	Terasaki/Schneider	MOM	01 No.
03	Under Voltage Trip for ACB	Terasaki/Schneider	UVT	01 No.
04	Shunt Trip for ACB	Terasaki/Schneider	ST	01 No.
05	Synch Module with Battery & Charger	DSE/Eqv.	8660	01 No.
06	Phase Failure Relay	Entes/Schneider	LTMR	01 No.
07	Surge Protective Device SPD	DEHN/Eqv.	4P 100KA	01 No.
08	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	03 Nos.
09	Digital Ampere Meter	Entes/ Schneider	96x96mm	03 Nos.
10	Current Transformer 1200/5A	Fico/Metelx	RLC	03 Nos.
11	Indication Lights (R+Y+B+ON+OFF)	Schneider/Himel	Led Type	05 Nos.
12	ON/OFF Push Button	Schneider/Himel	22mm	02 Nos.
13	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
14	2500A TP+N+E Cu Bus Bar			
C	**DIESEL GENERATOR SET IN FUTURE**			
01	1250A FP ACB 65KA **(SPACE FOR FUTURE)**			
D	**350 KVAR PFI PLANT**	**02 SETs.**		
01	Power Factor Capacitor 50kVAR	Enerlux/Eqv.	PRT.4450	04 Nos.
02	Power Factor Capacitor 25KVAr.	Enerlux/Eqv.	PRT.4420	06 Nos.
03	Magnetic contactor 105A AC3 for 50KVAR	Terasaki/Schneider	TC-100a	04 Nos.
04	Magnetic contactor 50A AC3 for 25KVAR	Terasaki/Schneider	TC-50a	06 Nos.
05	HRC Fuses with bases 125A	DF Elec/eqv.	Double Zero	12 Nos.
06	HRC Fuses with bases 63A	DF Elec/eqv.	Double Zero	18 Nos.
07	Reactive Power Controller. 12-Steps.	Entes/Eqv.	RGP-12	01 No.
08	ON/OFF Push Button.	Terasaki/Schneider	22MM	20 Nos.
09	ON indication.	Terasaki/Schneider	22MM	10 Nos.
10	Auxiliary Contactor (4NO+4NC).	Togami/Eqv.	AK-8JS44	03 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
12	Current Transformer 1200/5A	Fico/Metelx	RLC	01 No.
13	Auto/Manual Switch.	GGT/Camsco	3 Position	01 No.
14	Surge Suppressors.	PEMPAK.		30 Nos.
15	Exhaust Fan with Dust Cassettes.	Imported.	220VAC	01 No.
16	Temperature Regulator 0~70c	Imported.	220VAC	01 No.

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Quotation for L.V Switchgear.
M/s. The Executive Engineer
Ref: D/FM/447523/14072 Dated 05-08-22

E	OUTGOING			
01	1000A TP MCCB 70KA	Terasaki/Schneider	S1000NE	01 No.
02	800A TP MCCB 70KA	Terasaki/Schneider	S800RJ	01 No.
03	400A TP MCCB 36KA	Terasaki/Schneider	S400CJ	02 Nos.
04	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
05	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
06	32A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
07	200A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	E250SF	01 No.
08	100A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
09	100A TP MCCB 25KA **(SPACE FOR FUTURE)**			01 No.
10	200A TP MCCB 25KA **(SPARE FOR FUTURE)**			01 No.

02 Main Distribution Board (MDB-1) **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	800A TP MCCB 70KA Adj.	Terasaki/Schneider	S800RJ	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	03 Nos.
03	Digital Ampere Meter	Entes/Camsco	96x96mm	03 Nos.
04	Current Transformer 800/5A	Fico/Metelx	RLC	03 Nos.
05	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
06	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
07	1000A TP+N+E Cu Bus Bar			
B	OUTGOING			
01	630A TP MCCB 70KA	Terasaki/Schneider	S630GE	01 No.
02	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
03	100A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
04	100A TP MCCB 25KA **(SPACE FOR FUTURE)**			01 No.

03 Main Distribution Board (MDB-2) **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	1000A TP MCCB 70KA Adj.	Terasaki/Schneider	S1000NE	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	03 Nos.
03	Digital Ampere Meter	Entes/Camsco	96x96mm	03 Nos.
04	Current Transformer 1000/5A	Fico/Metelx	RLC	03 Nos.
05	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
06	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
07	1500A TP+N+E Cu Bus Bar			
B	OUTGOING			
01	500A TP MCCB 36KA	Terasaki/Schneider	S630CF	02 Nos.
02	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
03	100A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
04	100A TP MCCB 25KA **(SPACE FOR FUTURE)**			02 Nos.

04 PSMDB-1 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	630A TP MCCB 70KA	Terasaki/Schneider	S630GE	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 600/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	800A TP+N+E Cu Bus Bar			
B	OUTGOING			
01	200A TP MCCB 25KA	Terasaki/Schneider	E250SF	02 Nos.
02	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
03	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	03 Nos.
04	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	63A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.

05 PSMDB-2 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	500A TP MCCB 36KA	Terasaki/Schneider	S630CF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 500/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	750A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	04 Nos.
03	63A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
04	63A TP MCCB 25KA **(SPACE FOR FUTURE)**			03 Nos.

06 SMDB-EW **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	400A TP MCCB 36KA	Terasaki/Schneider	S400CJ	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 400/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	600A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	02 Nos.
02	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	02 Nos.
02	40A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
03	40A TP MCCB 25KA **(SPACE FOR FUTURE)**			01 No.

07 SMDB-F-LP **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	500A TP MCCB 36KA	Terasaki/Schneider	S630CF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 500/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	750A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	02 Nos.
02	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	02 Nos.
02	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	04 Nos.
02	63A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
03	63A TP MCCB 25KA **(SPACE FOR FUTURE)**			03 Nos.

08 SMDB-MS **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	400A TP MCCB 36KA	Terasaki/Schneider	S400CJ	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.

05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 400/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	600A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	02 Nos.
02	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	03 Nos.
03	40A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
04	40A TP MCCB 25KA **(SPACE FOR FUTURE)**			01 No.

09 LSMDB-1 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 100/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	150A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	05 Nos.
02	40A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
03	40A TP MCCB 25KA **(SPACE FOR FUTURE)**			01 No.

10 LSMDB-2 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 100/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	150A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	05 Nos.
02	40A TP MCCB 25KA **(SPARE)**	Terasaki/Schneider	S160SCF	01 No.
03	40A TP MCCB 25KA **(SPACE FOR FUTURE)**			01 No.

11 FEEDER PILLER **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	50A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
06	Current Transformer 50/5A	Fico/Metelx	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
08	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
09	100A TP+N+E Cu Bus Bar			
B	**OUTGOING**			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.
03	20A TP MCB 6KA **(SPACE FOR FUTURE)**			03 Nos.

12 DB MASJID — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

13 DB-WF — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

14 DBLP-ER — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	32A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

15 DB-M — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

16 LDB-MS1 — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

17 LDB-MS2 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

18 PDB-MS1 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

19 PDB-MS2 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

20 LDB-EW1 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

21 LDB-EW2 **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

22 PDB-EW1 — 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

23 PDB-EW2 — 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

24 LDB-01 to LDB-14 — 14 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

25 PDB-01,02 — 02 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	200A TP MCCB 25KA	Terasaki/Schneider	E250SF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

26 PDB-03 to PDB-09,12,14 — 09 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10/20A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

27 PDB-10,11,12 — **03 SETs.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

28 DB-XRAY — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.

29 Feeder Piller — **01 SET.**

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	40A TP MCCB 25KA	Terasaki/Schneider	S160SCF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
04	Indication Lights (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
05	6A Control MCB for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	**OUTGOING**			
01	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
02	10A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

Notes:

- *The quoted prices are with given specifications of components. Any change in make, brand, specifications or origin will affect the prices.*
- *All components will be genuine and brand new purchased from the sole agent in Pakistan.*
- *The Scope of work is limited to Ex-works delivery only duly packed for inland Transportation.*

Engr. Muhammad Arshad
Sr. Sales Engineer
0345-400-9982

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

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EXTERNAL SEWERAGE LINE / MANHOLE

1. Earth work excavation in open cutting for sewer and manhole as shown in drawings i/c 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 0' to 7' depth.

1	x	2175	x	3	x	4 1/2	=	29363	Cft	
						Total =		29363	Cft	
							@	6683.30	%0 Cft	196242 /-

2. Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.
Type (SDR 34/SN-8)

10"dia 250 mm	= 1350	Rft @	2667.10	P Rft	3600585 /-
12" dia 300 mm	= 575	Rft @	4200.85	P Rft	2415489 /-
16" dia 400 mm	= 250	Rft @	6870.15	P Rft	1717538 /-

3. Construction of circular manhole 3' dia

	= 48	No. @	39300.00	Each	1899500 /-

4. Rehandling of earth with lead upto a single throw of Kassi, phoarah as shown lead upto 50ft.

Qty as item No.1	= 29363	Cft @	1914.00	%0 Cft	56201 /-

Total: - 9885554 /-

Say Rs: - 9886000 /-

Executive Engineer,
Buildings Division,
Jhang

Sub Divisional Officer
Buildings Sub Division,
Jhang

ANALYSIS OF RATE FOR CONSTRUCTION OF CIRCULAR MANHOLE UP TO 3'- 0" DIA

1. Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. 0 ft. to 7.0 ft. (0 to 2.10 m) depth

22/7x4-1/2x4-1/2x1/4x3 = 48 Cft @ 11740.4 %0Cft 564 /-

2. Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 20.1 -do- 50 mm) gauge, in foundation and plinth:-
Ratio 1:04:08

22/7x4-1/2x4-1/2x1/4x1/2 = 8 Cft @ 24796.45 % Cft 1984 /-

3. Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:3:6

22/7x4-1/2x4-1/2x1/4x1/4 = 4 Cft @ 32,848.50 % Cft 1314 /-

4. Pacca brick work in 1:4 other than building up to 10' height.

22/7x3-3/4x3/4x5-1/2 = 49 Cft @ 31,365.10 % Cft 15369 /-

5. Extra for pacca brick work steining of well circulor masonry

Qty as per item No.4 = 49 Cft @ 2,683.20 % Cft 1315 /-

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

22/7x3x3x1/4x1/4 = 2 Cft @ 38,178.90 % Cft 764 /-

7. 1/2"thick cement plaster 1:4

22/7x3x5-1/2 = 52 Sft @ 3,245.95 % Sft 1688 /-

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

22/7x3x3x1/4 = 7 Sft @ 2,934.10 % Sft 205 /-

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

= 1 No. @ 15106.65 Each 15107 /-

10. Applying floating coat of cement 1/32" (0.8 mm) thick.

22/7x3x5-1/2 = 52 Sft 1,835.90 % Sft 955 /-

Total:- 39263 /-

Say:- 39300 /-

Executive Engineer,
Buildings Division,
Jhang

Sub Divisional Officer
Buildings Sub Division,
Jhang.

RE-VAMPING OF D.H.Q RENOVATION AND IMPROVEMENT OF MEDICINE STORE OF D.H.Q HOSPITAL AT JHANG

(MRS 2ND BI-ANNUAL 2022)

ABSTRACT OF COST.

1	Repair Of Medical Store	Rs.	2272400/-
	Total	Rs.	2272400/-
	Say	**Rs.**	**2272000/-**
	Or	**Rs.**	**~~2.272~~ (M)**

22,20,000/

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang.

RE-VAMPING OF D.H.Q RENOVATION AND IMPROVEMENT OF MEDICINE STORE OF D.H.Q HOSPITAL AT JHANG

(MRS 2ND BI-ANNUAL 2022)

(MEDICAL STORE)

1 Dismentling cement concrete 1:2:4 plain.

2	x 23	x 22		=	1012 Sft			
3	x 21	x 12		=	756 Sft			
3	x 4	x 1-1/8		=	14 Sft			
4	x 3	x 1-1/8		=	14 Sft			
3	x 9	x 1-1/8		=	30 Sft			
			Total	=	1826 Sft	(A)		
	1826	x 1/8		=	228 Cft			
				@	11174.60	% Cft		25478/-

2 Dismentling cement concrete with brick aggregate.

Qty: as per item No.10(A) =	1826	x 1/3		=	608 Cft			
			Total	=	608 Cft			
				@	3047.60	% Cft		18529/-

3 Dry rammed brick or stone ballast 1-1/2" to 2" gauge.

Qty: as per item No.2				=	608 Cft			
			Total	=	608 Cft			
				@	8891.50	% Cft		54060/-

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

Qty: as per item No.1(B)				=	228 Cft			
			Total	=	228 Cft			
				@	38178.90	% Cft		87048/-

5 Removing cement sand plaster from walls.

2	x 2	(23 + 22) 7		=	1260 Sft			
3	x 2	(21 + 12) 7		=	1386 Sft			
			Total	=	2646 Sft			
				@	423.30	% Sft		11201/-

6 ½" thick cement plaster (1:4) upto 20' height.

1	x 2	(23 + 22) 2		=	180 Sft			
			Total	=	180 Sft			
				@	3245.95	% Sft		5843/-

7 Filling watering, ramming earth under floor with new earth excavated from out side lead upto 2-miles.

3	x 21	x 12 x 1-1/4		=	945 Cft			
			Total	=	945 Cft			
				@	12305.00	%0 Cft		11628/-

8 Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive /bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge a) Full body Glazed tiles (i) 600 mm x 600 mm

2	x	23	x	22	=	1012	Sft	
3	x	21	x	12	=	756	Sft	
3	x	4	x	1-1/8	=	14	Sft	
4	x	3	x	1-1/8	=	14	Sft	
3	x	9	x	1-1/8	=	30	Sft	
				Total	=	1826	Sft	
					@	340.55	P.Sft	621844/-

9 Providing and laying superb quality Porcelain glazed tiles of Master brand,skirting / dado of specified size, Color and Shade with adhesive / bond over 1/2" thick (1:2) cement plaster i/c 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 (i) 600 mm x 600 mm

2	x	2	(	23	+	22	)	7	=	1260	Sft		
3	x	2	(	21	+	12	)	7	=	1386	Sft		
2	x	3	x	22	x	2			=	264	Sft		
2	x	2	x	2	x	7			=	56	Sft		
4	x	3	x	7	x	2			=	168	Sft		
2	x	18	x	2					=	72	Sft		
2	x	2	x	3	x	7			=	84	Sft		
12	x	2	x	1-1/8	x	7			=	189	Sft		
						Total			=	3479	Sft		
Deduction													
3	x	4	x	7					=	84	Sft		
3	x	3	x	7					=	63	Sft		
3	x	9	x	7					=	189	Sft		
						Total			=	336	Sft		
Net:-			(	3479	-	336	)		=	3143	Sft		
									@	340.55	P.Sft	1070349/-	

10 P/F 1-1/2" thick deodar wood panelled or panelled and glazed door and windows with M.S. chowkat (frame) etc complete in all respect. (excluding sliding bolt or lock) with M.S. angle iron 1-1/2"x1-1/2"x1/4" welded with M.S. angle iron 1½"x1½"x¼", welded (40 mmx 40 mmx 6mm) with M.S. flat 2"x¼".

2	x	3	x	7	=	42	Sft	
				Total	=	42	Sft	
					@	1543.35	P.Sft	64821/-

11 Grouting 4-1/2" dry brick work with cement mortar 1:5

1	x	120	x	23-1/2	=	2820	Sft	
1	x	21-3/4	x	41	=	892	Sft	
				Total	=	3712	Sft	
					@	883.00	% Sft	32777/-

12 Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 complete in all respects as approved and directed by the Engineer Incharge. 9mm

2 x 23	x 22		=	1012 Sft			
3 x 21	x 12		=	756 Sft			
	Total	=	1768 Sft				
		@	95.25	P.Sft	168402/-		

13 Distempering 2-coats old surface.

2 x 2	(23 + 22) 5	=	900 Sft				
3 x 2	(21 + 12) 5	=	990 Sft				
	Total	=	1890 Sft				
		@	705.15	% Sft	13327/-		

14 Preparing surface and painting to door and windows any type on old surface 2-coats.

2 x 2	x 4 x 8-1/2	=	136 Sft				
1 x 2	x 4 x 7	=	56 Sft				
1 x 2	x 3 x 7	=	42 Sft				
2 x 2	x 2-1/2 x 7	=	70 Sft				
	Total	=	304 Sft				
		@	1667.55	% Sft	5069/-		

15 Preparing surface and painting sashes fan light glazed or gauzed doors and windows etc any type 2-coats old surface.

2 x 2	x 6 x 6	=	144 Sft				
2 x 2	x 4 x 6	=	96 Sft				
2 x 2	x 5 x 2	=	40 Sft				
	Total	=	280 Sft				
		@	1014.00	% Sft	2839/-		

16 P/Applying weather shield paint of approved quality on external surface of building i/c preparation of surface application of primer complete in all respect.

1 (100 + 10 + 15 + 24							
+ 42 + 100 + 10) 15	=	4515 Sft					
Total	=	4515 Sft					

Deduction

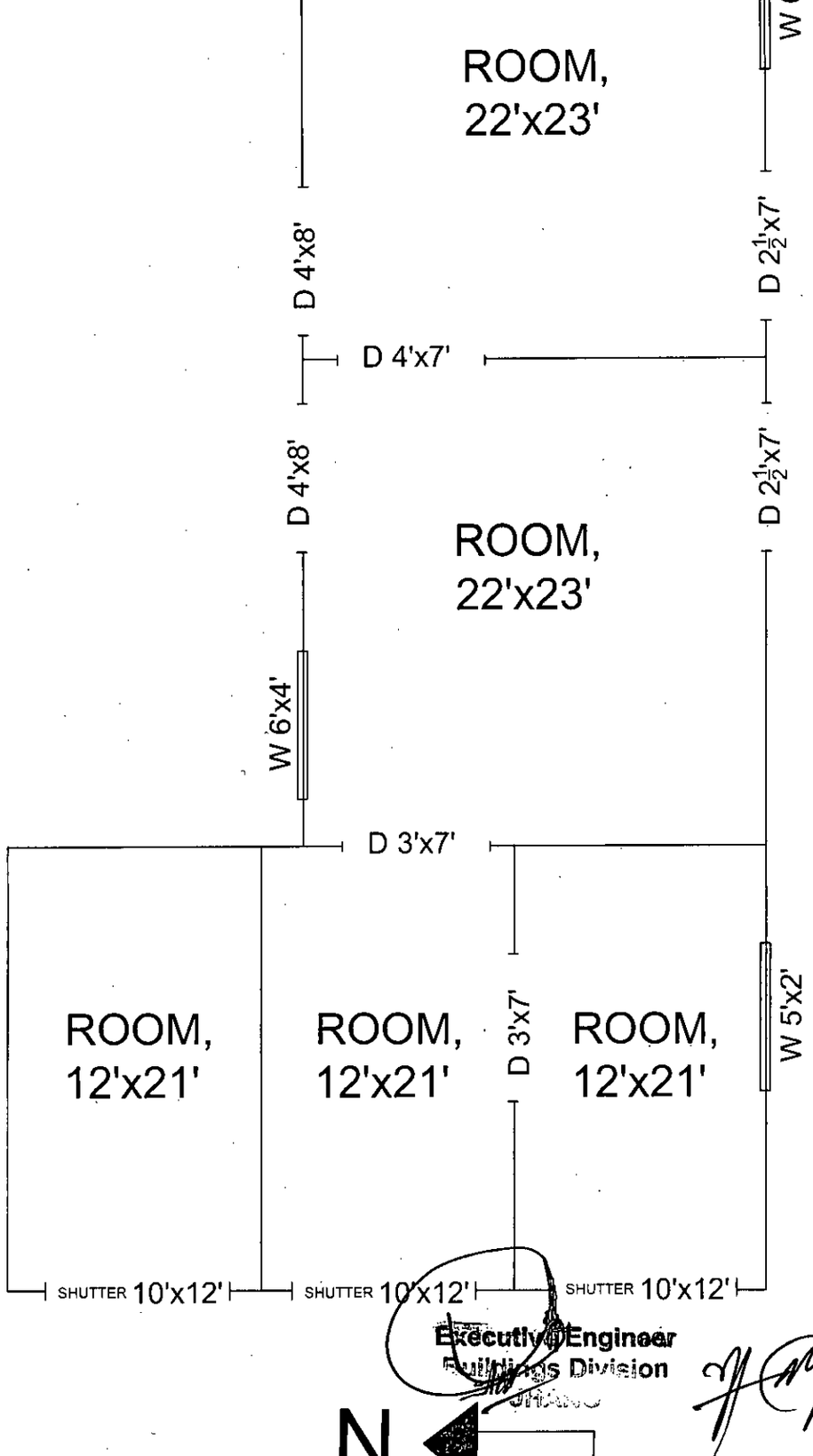
6 x 6	x 6	=	216 Sft				
2 x 6	x 4	=	48 Sft				
4 x 4	x 8-1/2	=	136 Sft				
	Total	=	400 Sft				
Net:-	(4515 - 400)	=	4115 Sft				
		@	1925.45	% Sft	79232/-		

Total: = ~~2272447/-~~ 22,20,000/

Say Rs. ~~2272400/-~~

SUB DIVISIONAL OFFICER,
Buildings Sub Division, Jhang.

PLAN OF MEDICINE STOREL IN D.H.Q AT JHANG



Executive Engineer
Buildings Division

Sub Divisional Officer,
Buildings Sub Division
JHANG

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:LO22010087
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2026-2027		2027-2028		2028-2029		2029-2030		2030-2031	
		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:LO22010087
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2026-2027		2027-2028		2028-2029		2029-2030		2030-2031	
		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**

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

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

9. DEMAND AND SUPPLY ANALYSIS

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

10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION

10.2 FINANCIAL PLAN DEBT INFORMATION

undefined

10.3 FINANCIAL PLAN GRANT INFORMATION

attached

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	**6.780**	**12.233**
Utilization	**5.826**	**2.293**

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

10.4 WEIGHT COST OF CAPITAL INFORMATION

undefined

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

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.

11.2 ENVIRONMENTAL IMPACT ANALYSIS

11.5 ENVIRONMENTAL IMPACT

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

11.3 PACT ANALYSIS

undefined

11.4 ECONOMIC ANALYSIS

IMPACT OF DELAYS ON PROJECT COST AND VIABILITY

Delay in the implementation of the project will lead to increase in cost and increase financial burden on the Government and general population of Punjab. Since the project is one of the major

needs and a long awaited desire of the community, therefore, Government of the Punjab contemplated plan for early execution of Revamping of Emergency Units. The delay will not only deprive the patients of the state of the art facility but also distort the public image of the Government

11.5 FINANCIAL ANALYSIS

FINANCIAL BENEFITS & ANALYSIS

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

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

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

11.1.1 FINANCIAL IMPACT:

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

11.2 REVENUE GENERATION

Revenue will be generated from:

Laboratory fees
Diagnostic facility fees
X-Ray fee
Dental fee
ECG fee

Private room charges
Parking fee
Medico Legal Fee
Medical Certificate of New Government Employees

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

Starting date: 01-07-2021
Expected Completion date: 30-06-2025

12.2 RESULT BASED MONITORING (RBM) INDICATORS

undefined

12.3 IMPLEMENTATION PLAN

undefined

12.4 M&E PLAN

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

12.5 RISK MITIGATION PLAN

attached

RISK REGISTER

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

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

12.6 PROCUREMENT PLAN

undefined

13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

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

14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

NA

15. CERTIFICATE

Focal Person Name: Mr. KHIZAR HAYAT **Designation:**Project Director, PMU P&SHD
Email: **Tel. No.:**
Fax No:
Address:31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

15. It is certified that the project titled "**Balance work of Revamping of DHQ Hospital Jhang (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:

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(Oct-2022)

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Checked By:

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(Oct-2022)

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Approved By:

(DR. IRSHAD AHMAD)
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PRIMARY & SECONDARY HEALTHCARE DEPARTMENT, LAHORE
(042-99204567)
(Oct-2022)

17. RELATION WITH OTHER PROJECTS