PC-1

Balance Work of THQ Hospital Shujabad

ORIGINAL APPROVED COST	**PKR Million. 177.138/-**
ORIGINAL APPROVED GESTATION	**43 Months** **Till June 2025**
APPROVAL FORUM	**DDSC (DDSC)**

1. NAME OF THE PROJECT

Balance Work of THQ Hospital Shujabad

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. MULTAN

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

4. PLAN PROVISION

Sr #	Description
1	**Source of Funding:**Scheme Listed in ADP CFY
2	**Proposed Allocation:**0.000
3	**GS No:**5376
4	**Total Allocation:**0.000
5	**Funds Diverted:**0.000
6	**Balance Funds:**0.000
7	**Comments:** Provision of Rs.1300 reflected at G.S. No.660 of ADP 2020-21 titled “Balance Work of Revamping of All DHQ & 15 THQ Hospitals in Punjab.

5. PROJECT OBJECTIVES

attached

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 THQ Hospital Shujabad:	34,274 SFT
Area completed:	16,770 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.

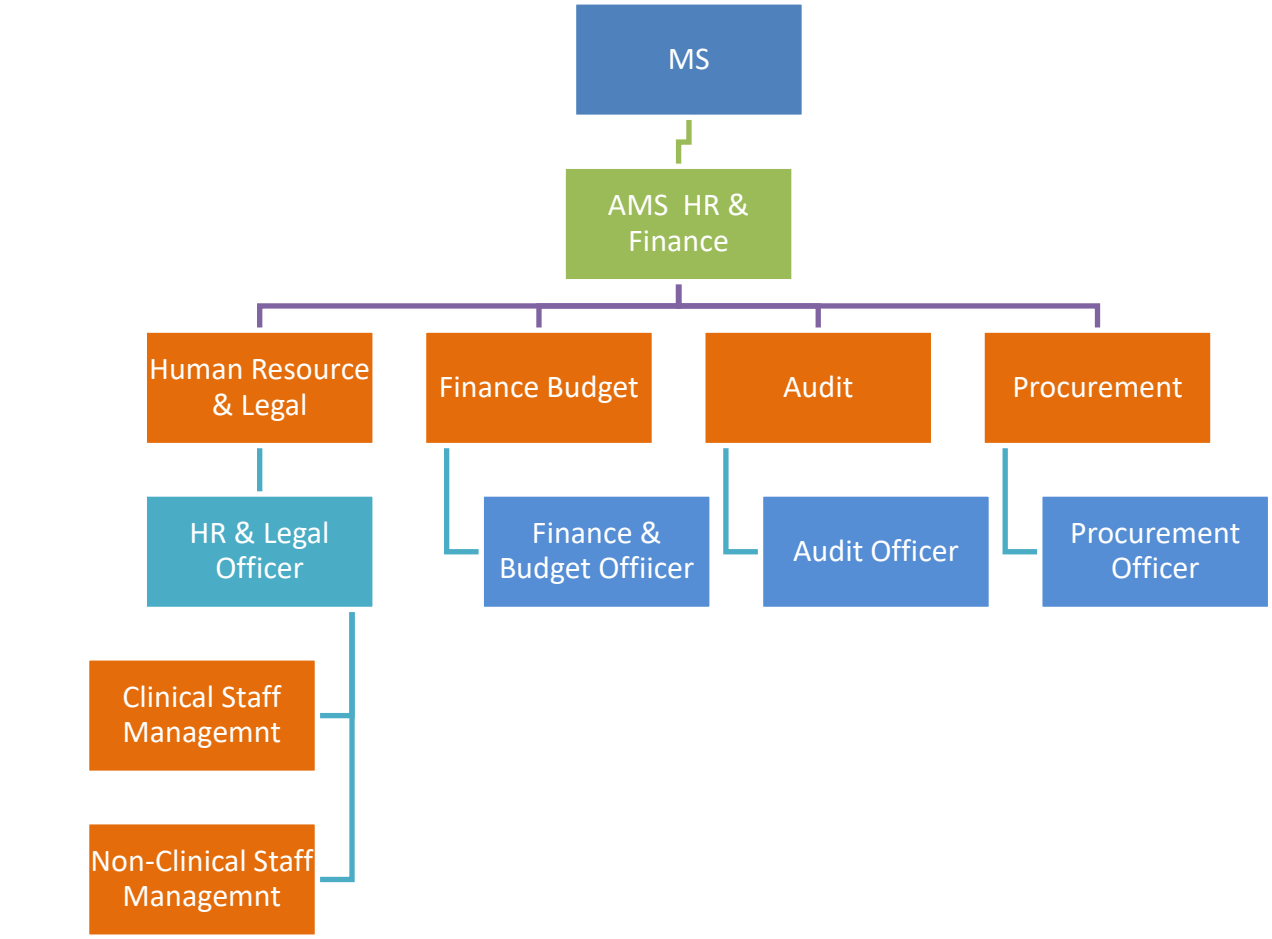
5.7.4 EMR and Networking

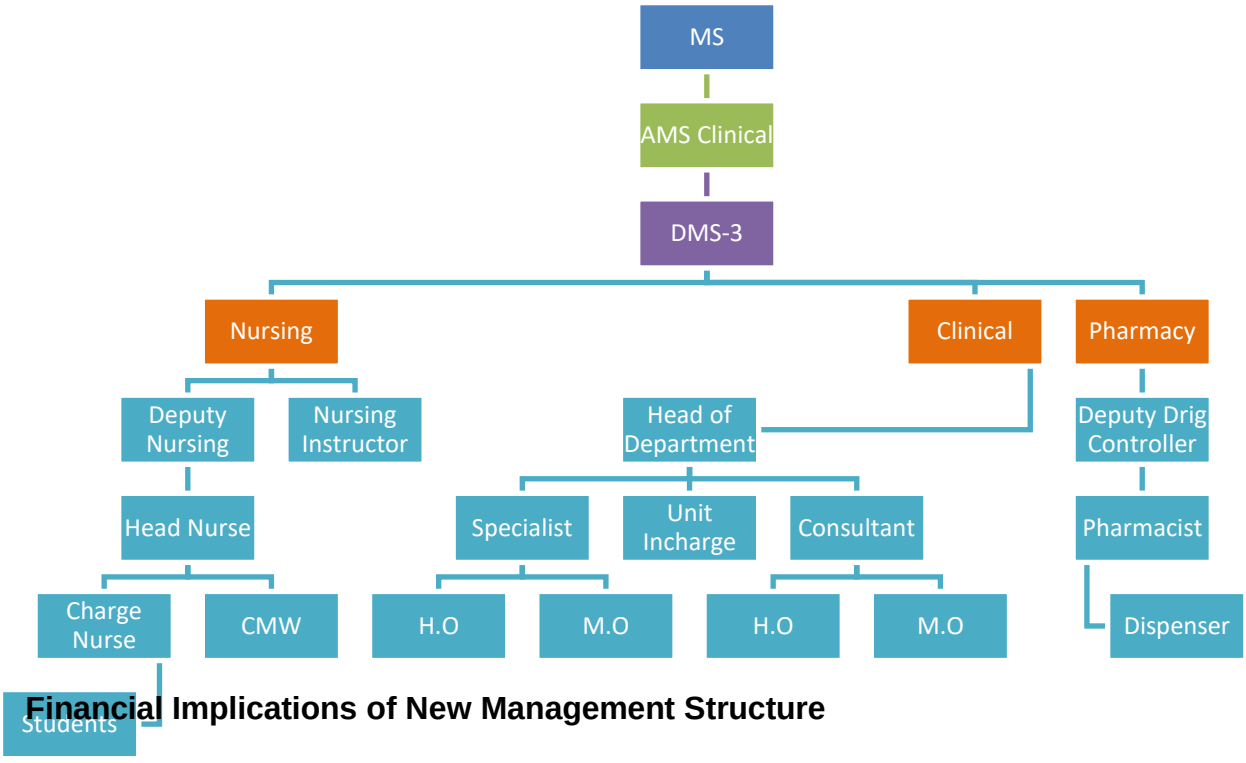
Establishment of network infrastructure, establishing a central data center, connectivity of different building through fiber, are also the major components of the revamping project in terms of ICT. This will including provision of networking point at all nursing stations and important areas where entries 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
Procurement Officer	1	80,000	960,000	105,000	1,260,000
Quality Assurance Officer	1	80,000	960,000	105,000	1,260,000
Logistics Officer	1	80,000	960,000	105,000	1,260,000
Data Entry Operator (DEO)	2	35,000	840,000	44,000	1,056,000
Assistant admin Officer	2	50,000	1,200,000	70,000	1,680,000

Total	**11**	**645,000**	**8,760,000**	**849,000**	**11,556,000**

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 HR/ 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.

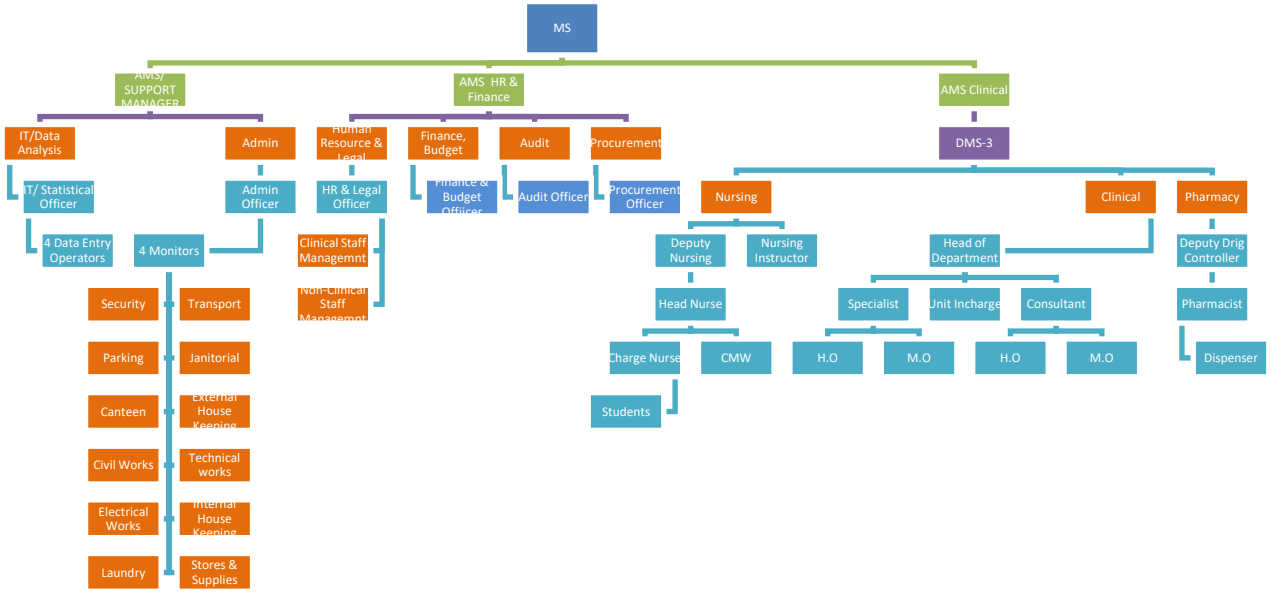
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

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
Procurement Officer	1	105,000	1,260,000
Quality Assurance Officer	1	105,000	1,260,000
Logistics Officer	1	105,000	1,260,000
Data Entry Operator (DEO)	2	44,000	1,056,000
Assistant admin Officer	2	70,000	1,680,000
Total	**11**	**849,000**	**11,556,000**

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 Tehsil Shujabad District Multan is more than 0.600 million. The area of the THQ Hospital Shujabad District Multan is 412410 SFT land.

6.1 DESCRIPTION AND JUSTIFICATION

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

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

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

JUSTIFICATION FOR REVISION OF PC-I

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

PDWP in its meeting held on 36-03-2021 and DDSC meeting held on 29-04-2021. Sub-schemes of all DHQ & 15 THQ Hospitals were concluded.

Thereafter it was decided to complete the balance civil work of revamping through C&W Department and a block scheme titled “Balance Work of Revamping of all DHQ/15 THQ Hospitals in Punjab” was included in ADP 2021-22. Accordingly, the Rough Cost estimates of balance civil work has been got prepared from the Punjab Buildings Department for preparation of PC-Is and were approved from the DDSC. Infrastructure team has conducted the Joint visits with the team of C&W Department. During the field visits, few alterations were recommended by the technical teams which have been incorporated in the Revised Rough Cost Estimates of the subject scheme and have been attached with the PC-I along with comparative statement. Therefore, Civil works component cost has been increased from Rs. 136.550 million to Rs. 138.624 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:LO21010560
A/C To be Credited: Assan Assignment

PKR Million

Sr #	Object Code	2021-2022		2022-2023		2023-2024		2024-2025	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A05270**-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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

Grant Number: Government Buildings - (PC12042)
LO NO:LO22010099
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2021-2022		2022-2023		2023-2024		2024-2025	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	**A05270**-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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 THQ Hospital	Shujabad					
Scope of work	Orignal			1st Revised		
	Capital	Revenue	Total	Capital	Revenue	Total
Capital component						
Internal Development	97.413	0.000	97.413	84.508	0.000	84.508
External Development	35.852	0.000	35.852	49.352	0.000	49.352
Water filtration plant	3.285	0.000	3.285	4.764	0.000	4.764
Total Capital Component	**136.550**	**0.000**	**136.550**	**138.624**	**0.000**	**138.624**
Revenue component						
Human resource (HR) plan	0.000	17.520	17.520	0.000	38.514	38.514
Total Revenue component	**0.000**	**17.520**	**17.520**	**0.000**	**38.514**	**38.514**
Total	**136.550**	**17.520**	**154.070**	**138.624**	**38.514**	**177.138**
Grand Total	**136.550**	**17.520**	**154.070**	**138.624**	**38.514**	**177.138**

Human Resource Model of THQ 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**	**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
PROCUREMENT OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
DATA ENTRY OPERAOTOR (DEO)	2	35,000	70,000	1,680,000	2	3	44,000	88,000	2,728,000
QUALITY ASSURANCE OFFICER	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	2	50,000	100,000	2,400,000	2	5	70,000	140,000	4,340,000
Sub Total of HR Model	**11**		**730,000**	**17,520,000**	**11**	**50**	**849,000**	**963,000**	**29,853,000**
				17.520					**29.853**
Utilization of HR Component				**8.661**					
									38.514

12

GOVERNMENT OF THE PUNJAB

BUILDINGS DIVISION NO.2 MULTAN

Revised

~~AMENDED~~ ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ AND 15 THQ HOSPITALS OF PUNJAB, REVAMPING OF TEHSIL HEAD QUARTER HOSPITAL SHUJABAD" (GS NO. 1013, ADP-2021-22, GS NO. 658 ADP-2022-23)

1138-624

Rs. ~~147.551~~ (M)

(2

OFFICE OF THE EXECUTIVE ENGINEER, BUILDINGS DIVISION NO.2, MULTAN

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ AND 15 THQ HOSPITALS OF PUNJAB, REVAMPING OF TEHSIL HEAD QUARTER HOSPITAL SHUJABAD" (GS NO. 1013, ADP-2021-22, GS NO. 658 ADP-2022-23)

Reference: Joint Visit of PMU Team & C&W Department dated 28.06.2022, Project Management Unit Letter No. PMU/(P&SHD)/2021/ Dated 06.08.2021, No. 285/ADM/THQ/SJB Dated 08.09.2021, SOB-I(C&W)2-11/2021/19986 Dated 15.06.2021, PMU/(P&SHD)/2021/1257 Dated 14.06.2021, PMU/(P&SHD)/2021/1256 Dated 14.06.2021

History:

Primary & Secondary Health Department is making extensive efforts for a state-of-the-art effective healthcare system. Improvement and rehabilitation of secondary healthcare facilities (District & Tehsil Headquarter (THQ/DHQ) Hospitals) is an important step in this regard. P&SHD for the sake of renovation/revamping, has bifurcated all secondary healthcare facilities in two phases i.e Phase-1 (25 DHQs and 15 THQs) and Phase-II (Remaining THQ Hospitals) Project Management Unit under P&SHD was established for smooth execution and seamless coordination of the said project.

After the detailed working and preparation of drawings and estimates etc. The physical work on Phase-I Hospitals was started in Mid-2017 through Infrastructure Development Authority Punjab (IDAP) after seeking approval from competent forums. Unfortunately, due to financial crunch and lack of fundings in Annual Development Programs, the physical work was slowed down and, in some cases, halted on site. Finally, IDAP formally refused to take up the next revamping works.

Now, the PMU P&SHD intends to revamp its secondary healthcare facilities and a block named "Balance Works of DHQ & THQ Hospitals Phase-I" has been allocated in ADP FY 2021-22. As per the directions of PMU, detailed survey was conducted and a Rough Cost Estimate amounting to **Rs. 136.550 (M)** was submitted, keeping in view the re-construction of the dilapidated clinical building.

Later on, Building Research Station Lahore team visited the site and proposed the replacement of the roof slab of the dilapidated building instead of re-construction of the building vide report ref No. BADV/3686 dated 09.12.2021. PMU P&SHD again visited the site and revised scope was identified and requested to submit Revised Rough Cost Estimate. Keeping in view above, Amended Rough Cost Estimate amounting to **Rs. 147.551 (M)** has been prepared on the basis of MRS / Plinth Area Rates of (2nd Bi-Annual 2022) for arrangement of the Administrative Approval & funds from the competent authority.

SCOPE OF WORK.

Detailed scope attached.

RATES: Rates provided in the estimate as per fixed by the Finance Govt. of the Punjab MRS 2nd Bi Annual 2022 (1st Jul 2022 to 30 Dec 2022).

SPECIFICATIONS:

Standard specifications of the Punjab Building department will be followed during the execution of works to the entire satisfaction of Engineer Incharge.

LAND: No provision of cost of land has been made in the estimate as the same is already available with the department concerned.

COST: The total cost comes to **Rs. ~~147.551~~ 1138-624 (Million)**

TIME: It will take 18 Months to complete the work from the actual date of commencement if full funds are made available well in time.

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.2
Multan

SCOPE OF WORK FOR REVAMPING OF HEALTH FACILITY THQ HOSPITAL SHUJABAD MULTAN

Sr No	Item	Admin Block	Linking Corridor, Outer Corridor, and Inner Corridor Between Admin Block and Diagnostic Block	Diagnostic Block (OT & X-Ray)	Linking Corridor, Outer Corridor and Inner Corridor Between Diagnostic Block and Indoor Block	Indoor Block (Male, Female and Dialysis Ward)	Trauma Center	Remarks
1	Porcelain Floor Tile replacement	**Note: No work needs to be done in already Revamped area by IDAP.** All floor tiles full body porcelain needs to be fixed in Admin block Portion not revamped by IDAP	In outer corridor of Diagnostic Block all floor tiles full body porcelain needs to be fixed. In linking corridor between Admin block and Diagnostic block all floor tiles full body porcelain need to be fixed. All floor tiles full body porcelain needs to be fixed in inner corridor between X-Ray and OT Block.	All floor tiles full body porcelain needs to be fixed on entire floor in Diagnostic (OT & X-Ray) Block. All floor tiles full body porcelain needs to be fixed in entire OT block except inside OT.	All floor tiles full body porcelain needs to be fixed in Main corridor and inner corridor of Indoor Block. In Outer corridor of Indoor Block all floor tiles full body porcelain needs to be fixed.	All floor tiles full body porcelain need to be fixed in entire male, female and dialysis wards. **Note: No floor tiles need to be fixed in Medicine Store.**	All floor tiles need to be retained.	Tiles specifications, brand, size and Installation will be as per specified C&W standards.
2	Porcelain Wall Tile replacement	All wall/dado tiles full body porcelain in non revamped portion needs to be fixed up to height as per existing wall/dado fixed by IDAP in revamped area **Note Wall/dado must be upto 5 ft. or as per existing corridor dado level and 6" inside rooms/offices.**	In outer corridor of Diagnostic Block all wall/dado tiles full body porcelain needs to be fixed up to height of 6ft. In linking corridor between Admin block and Diagnostic block all wall/dado tiles full body porcelain needs to be fixed All wall/dado tiles full body porcelain up to height of 6 ft.needs to be fixed in inner corridor between X-Ray Block and OT Block. **Note Wall/dado must be upto 5 ft. or as per existing corridor dado level and 6" inside rooms/offices.**	All wall/dado tiles full body porcelain need to be fixed in Diagnostic Block (OT & X-Ray) **Note Wall/dado must be upto 5 ft. or as per existing corridor dado level and 6" inside rooms/offices.**	All wall/dado tiles full body porcelain up to height of 6 ft. needs to be fixed in main corridor and inner corridor of Indoor Block. In outer corridor of Indoor Block all wall/dado tiles need to be fixed.	All wall/dado tiles full body porcelain needs to be fixed inside Male, Female and Dialysis Wards with 6ft.height in corridor and wards and 6" skirting inside Rooms/Offices. **Note: No wall/dado tiles need to be fixed in Medicine Store.**	All wall/dado tiles need to be retained.	Tiles specifications, brand, size and Installation will be as per specified C&W standards.
3	Wooden Doors flush or Solid/ Main Doors and Aluminum Doors	All doors in non revamped portion needs to be fixed matching with the doors fixed in revamped portion.	Only damaged doors (which are few) will be replaced by Solid flush doors. Remaining doors will only be repainted properly after scrapping the old paint.	Only damaged doors will be replaced by new wooden doors. Remaining doors in good condition will only be repainted properly after scrapping the old paint. All Entrance and Exit doors of wards need to be replaced with Aluminum doors half solid and half glazed glass fixed on it.	Only damaged doors need to be replaced with new wooden doors. Most of the Doors are in good condition needs to be retained and only needs to be repainted/ repolished. All wards entrance and exit doors need to be replaced with Aluminum doors half solid and half glazed glass.	Only damaged doors need to be replaced with new wooden doors. Most of the Doors are in good condition needs to be retained and only needs to be repainted/ repolished. All wards entrance and exit doors need to be replaced with Aluminum doors half solid and half glazed glass.	All Existing doors need to be retained.	Specifications, wood/type of door, polish, door locks and handles will be as per specified C&W standards.

4	Verandah opening (opening to open area)/ MS Windows on Façade	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali.	Not Required.	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali.	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali	Not Required.	Specifications will be as per C&W standards.
5	Existing Internal Windows	All Existing MS internal windows need to be replaced with Aluminium Windows MS Windows at façade and inside rooms/offices not revamped by IDAP Aluminum windows need to be fixed matching with existing windows fixed by IDAP.	All Existing MS internal windows of outer corridor, inner corridor and linking corridor between Admin Block and OT Block needs to be replaced with Aluminium Windows.	All Existing MS internal windows in Diagnostic Block (OT & X-Ray) needs to be replaced with Aluminum Windows. All windows other than Aluminum inside Diagnostic Block (OT & X-Ray) needs to be replaced with Aluminum.	All Existing MS internal windows of outer corridor and inner corridor needs to be replaced with Aluminium Windows.	All Existing MS internal windows inside male, female and Dialysis wards need to be replaced with Aluminium Windows.	All windows need to be retained.	Specifications, Aluminum and glass color will be as per specified C&W Standards
6	Internal Electric fittings	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical. All old switch fittings & DBs if requires need to be changed.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical. All old switch fittings & DBs if requires need to be changed.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical All old switch fittings & DBs if requires need to be changed.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical. All old switch fittings & DBs if requires need to be changed.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical. All old switch fittings & DBs if requires need to be changed.	Not Required.	Model Specifications/ Brands, should be as per specified C&W Standards.
7	Internal Lighting Fixtures	All corridors and rooms should lit with SMD's with concealed wiring.	All corridors and rooms should lit with SMD's with concealed wiring.	All corridors and rooms should lit with SMD's with concealed wiring at 8 ft distance. All old switch fittings & DBs if requires need to be changed.	All corridors and rooms should lit with SMD's with concealed wiring.	All corridors and rooms should lit with SMD's with concealed wiring.	Not Required.	Model Specifications/ Brands and distance should be as per specified C&W Standards.
8	Revamping of Public Toilets	All washrooms in Non Revamped area only needs to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply (where damaged) and sewerage connections (where damaged) Entrance doors of all washrooms need to be replaced with UPVC doors. Common vanities to be made.	Not Required	All washrooms in Diagnostic Block (OT & X-Ray) needs to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply (where damaged) and sewerage connections (where damaged). Entrance doors of all washrooms need to be replaced with UPVC doors. Common vanities to be made.	Not Required	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply (where damaged) and sewerage connections (where damaged). Entrance doors of all washrooms need to be replaced with UPVC doors.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply (where damaged) and sewerage connections (where damaged). Entrance doors of all washrooms need to be replaced with UPVC doors.	Vanity, wash basin, water closets, bath room accessories, tile size and color will be as per specified C&W standards. All Washroom doors should be replaced with UPVC doors having specified C&W Standards.

18	External Weather Shield	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation missing portion only matching as per IDAP revamped area.	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.	Not Required.	
19	Edge Protection	SS Edge Protection needs to be fixed on all corners up to height of Wall/Dado tiles.	SS Edge Protection needs to be fixed on all corners up to height of Wall/Dado tiles.	SS Edge Protection needs to be fixed on all corners up to height of 5 ft till the height of Wall/Dado tiles	SS Edge Protection needs to be fixed on all corners up to height of Wall/Dado tiles.	SS Edge Protection needs to be fixed on all corners up to height of Wall/Dado tiles.	Not Required.	
20	Columns SS Cladding	SS Cladding required to be done on Columns at entrance.	Not Required	SS Cladding required to be done on Columns at entrance.	Not Required	SS Cladding required to be done on Columns at entrance.	Not Required.	
21	Plumbing Works	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Not Required.	
22	Fire Alarm System	Required.	Required.	Required.	Required	Required.	Required	
23	Expansion joint of Building	Treat expansion joint of building properly & cover it with SS plate and water bearer inside as per C&W standards. Expansion joints on roof top to have double wall covered with pre cast slabs and sealing gaps between slabs properly.	Treat expansion joint of building properly & cover it with SS plate and water bearer inside as per C&W standards. Expansion joints on roof top to have double wall covered with pre cast slabs and sealing gaps between slabs properly.	Treat expansion joint of building properly & cover it with SS plate and water bearer inside as per C&W standards. Expansion joints on roof top to have double wall covered with pre cast slabs and sealing gaps between slabs properly.	Treat expansion joint of building properly & cover it with SS plate and water bearer inside as per C&W standards. Expansion joints on roof top to have double wall covered with pre cast slabs and sealing gaps between slabs properly.	Treat expansion joint of building properly & cover it with SS plate and water bearer inside as per C&W standards. Expansion joints on roof top to have double wall covered with pre cast slabs and sealing gaps between slabs properly.	Not Required.	
24	Specific Points	**1) False ceiling needs to be done in Admin Block in half of the inner corridor mtching as per ceiling done by IDAP. 2) All cemented benches in Indoor block needs to be demolished. 3) Roof slab of RCC needs to be casted of entire Indoor Block where steel is exposed. 4) A new Room to be made for washing dirty linen in OT Block as discussed during field visit.**						
25	Electrification	**All external main cables of hospital which are hanging in Air should be concealed in all respects. Similarly, few existing DB's need to replace as per site condition along with proper earthing of complete hospital.**						

SCOPE FOR REVAMPING OF HEALTH FACILITY THQ HOSPITALSHUJABAD MULTAN

Sr No	Description	Condition	Additional Information	
	Water Supply System		New OHR of 10,000 gallons capacity is required. New Water supply lines HDP from OHR to Clinical blocks of Hospital needs to be laid and their connections with Clinical Blocks need to be done.	
	Sewerage System		Sewerage line of Hospital needs to be disilted and cleaned .Only blocked lines to be replaced with new lines of appropriate size. New detention tank to be made with sludge pump fixed inside it.	
	External Pathways		No work Required only patch work needs to be done on Roads.	
	Boundary Wall		Not Required	
	Main Gate		Not Required	
	Sources of Electircal Supply		Demand Notice to be paid for Dual Supply or Express Line.	
	Transformer		Requirement of transformer will be assessed after visit of Wapda & DN to be paid accordingly as per site requirement.	
	ATS Panel for Generators		As per site requirement.	
	Electrical Panel Room		Electrical Room needs to be made.	
	External Wires		All external wires/cables should be replaced after detail electrical analysis & design. Moreover these main wires should be concealed in all respects.	
	Water Filtration Plant		Filtration plant with room is required to be made in Hospital.	

Primary & Secondary
Healthcare Department

GOVERNMENT OF THE PUNJAB
Dated Lahore the 27-11-2021

ORDER

No.PO(D-II)Revamping/P-I/21: Consequent upon the decision of Departmental Development Sub Committee (DDSC), in its meeting held on 17.08.2021, the Governor of the Punjab is pleased to accord Administrative Approval of 07 sub-schemes under block scheme titled **"Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab"** at cost mentioned against each scheme, with gestation period from 01.07.2021 to 30.06.2023:

Rs. in Millions

Sr. No.	Sub Scheme Title	Approved Cost		
		Capital Component	Revenue Component	Total
1	Balance work of Revamping of DHQ Hospital Bhakkar	115.450	25.440	140.890
2	Balance work of Revamping of DHQ Hospital Jhang	130.628	25.440	156.068
3	Balance work of Revamping of DHQ Hospital Okara South City	43.818	25.440	69.258
4	Balance work of Revamping of THQ Hospital Ahmedpur East	45.971	22.520	68.491
5	Balance work of Revamping of THQ Hospital Cheechawatni	78.885	17.520	96.405
6	Balance work of Revamping of THQ Hospital Taunsa	81.501	17.520	99.021
7	Balance work of Revamping of THQ Hospital Kot Addu	101.630	17.520	119.150

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

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

Revenue Component — *Grant No. PC-22036 (036) Development -07Health -073 – Hospital Seravices-0731-General Hospital Services - 073101 General Hospital Services.*

(IMRAN SIKANDAR BALOCH)
SECRETARY P&SH DEPARTMENT

NO. & DATE EVEN:

A copy is forwarded for information and necessary action to the.-

1. Accountant General, Punjab, Lahore.
2. Chief (Health-II), Planning & Development Department, Lahore.
3. Director General Health Services, Punjab, 24-Cooper Road, Lahore.
4. Chief Engineer (North, Central & South Zones), Buildings Department.
5. Project Director, Project Management Unit, P&SH Department.
6. Section Officer (Health-I), Finance Department.
7. Budget Officer-I & III, Finance Department.
8. All Planning Officer, P&SHC Department.
9. PS to Secretary, P&SH Department.
10. PA to Special Secretary, P&SH Department.
11. PA to Additional Secretary (Dev & Fin), P&SH Department.
12. PA to Additional Secretary (Admin), P&SH Department.
13. PA to Deputy Secretary (D), P&SH Department.

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

Revenue Component *Grant No. PC-22036 (036) Development -07Health -073 – Hospital Seravices-0731-General Hospital Services -073101 General Hospital Services.*

(IMRAN SIKANDAR BALOCH)
SECRETARY P&SH DEPARTMENT

NO. & DATE EVEN:

A copy is forwarded for information and necessary action to the.-

1. Accountant General, Punjab, Lahore.
2. Chief (Health-II), Planning & Development Department, Lahore.
3. Director General Health Services, Punjab, 24-Cooper Road, Lahore.
4. Chief Engineer (North, Central, South Zones), Buildings Department.
5. Project Director, Project Management Unit, P&SH Department.
6. Section Officer (Health-I), Finance Department.
7. Budget Officer-I & III, Finance Department.
8. All Planning Officer, P&SHC Department.
9. PSO to Secretary, P&SH Department.
10. PA to Additional Secretary (Dev & Fin), P&SH Department.
11. PA to Additional Secretary (Admin), P&SH Department.

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

BALANCE WORK OF DHQ/THQ HOSPITALS
REVAMPING OF TEHSIL HEAD QUARTER HOSPITAL SHUJABAD
ROUGH COST ESTIMATE

Sr. No.	Description	Total Area		Rates							Unit	Amount	Remarks
				B.P	Add for each 1' deeper foundation	Add for foundation for 1st and Subsequent Floor	E.I	P.H.P	S.G	Total			
1-	Cost of Dismantling of Existing Dangerous Building	Detail Attached										4,527,600	MRS 2nd Bi-Annual 2021 P-25
2-	Re-Construction of Surgical/Male/Female Wards, OT Block, Verandahs, Isolation Unit, Dialysis Unit (Dangerous Buildings/Not in Use of Hospital) (A)	23095	Sft	2154	2x49 =98	100	110	78	—		2540	P.Sft	58,661,300	Plinth area rates 2nd-Bi annual 2021. Add 01 Floor Foundation for Future Extention
3-	Establishment of Machine Room/Electrical Room (L)	570	Sft	2142	2x49 =98		110	78	—		2428	P.Sft	1,383,960	Plinth area rates 2nd-Bi annual 2021
4-	Establishment of Medicine Store (M)	692	Sft	2142	2x49 =98		110	78			2428	P.Sft	1,680,176	Plinth area rates 2nd-Bi annual 2021
5-	Establishment of QMS Counters & Waiting Hall (N)	1097	Sft	2142	2x49 =98		110	78			2428	P.Sft	2,663,516	Plinth area rates 2nd-Bi annual 2021
6-	Construction of external platforms/pathways (P)	1	Job								1077927	P.Job	1,077,927	Detail Attached P-38
7-	Construction of Car Parking Shed (O)	1	Job								4986473	P.Job	4,986,473	Analysis Attached P-51
8-	Provision of water filteration plant with supply system (WFP)	1	Job								3285000	P.Job	3,285,000	Detail Attached P-40
9-	Reconstruction of boundary wall 8' height above plinth level 715 - 613 - 712 - 546 = 2586 Rft	2586	Rft	5111							5111	P.Rft	13,217,046	Plinth area rates 2nd-Bi annual 2021
10-	Construction of Dumping Area For Hospital Waste (Boundary Wall 9" Thick & 6' Height above Plinth Level) (Cordemed Area 70ftx 85ft)	310	Rft	2349							2349	P.Rft	728,190	Plinth area rates 2nd-Bi annual 2021
11-	Improvement of sewerage, sanitation and drainage system	1	Job								955200 928100	P.Job	955200 928100	Detail Attached P-39
12-	Rehablitation of external electrification system	1	Job								4071600	P.Job	4,071,600	Detail Attached P-52
13-	Improvement of Internal Electrification	1	Job								1303564	P.Job	1,303,564	Detail Attached P-54
14-	Improvement of façade	1	Job								553400	P.Job	553,400	Detail Attached P-55

Sr. No.	Description	Total Area		Rates							Unit	Amount	Remarks
				B.P	Add for each 1' deeper foundation	Add for foundation for 1st and Subsequent Floor	E.I	P.H.P	S.G	Total			
15-	Improvement of internal external wall surfaces	1	Job							829171	P.Sft	829,171	Detail Attached P-62
16-	**Additional Items/Non-Schedule Items/Improved Generic Specifications**												
1	P /L Porcelain Tile Flooring 24"X24" Granite Master Tile with Dry / Wet Application DWV Series Polished (Light Colour) Class SB Laid Over Cement Sand Mortar (1:2) 3/4" Thick And Jointed With White Cement And Matching Pigment Etc Complete As Approved By The Engineeer Incharge	18080	Sft							288 - 139.60 + 36.50 = 184.90	P.Sft	3,342,992	P-29 Analysis Attached
2	P /L Porcelain Tile Dado / Skirting 24"X24" Granite Master Tile with Dry / Wet Application DWV Series Polished (Light Colour) Class SB Laid Over Cement Sand Mortar (1:2) 3/4" Thick And Jointed With White Cement And Matching Pigment Etc Complete As Approved By The Engineeer Incharge	21298	Sft							305 - 143.10 + 0.00 = 161.90	P.Sft	3,448,146	P-31 Analysis Attached
3	P/L CERAMIC WALL TILES (PREMIUM) (Matt /Glazed) light color Tiles Floor 12"x24" Tiles laid over cement sand mortar (1:2) 3/4" thick jointed with white cement and matching pigment complete in all respects and as approved by the Engineer Incharge	1283	Sft							193 - 139.60 + 36.50 = 89.90	P.Sft	115,342	P-31 Analysis Attached
4	P/L CERAMIC WALL TILES (PREMIUM) (Matt /Glazed) light color Tiles Dado/Skirting 12"x24" Tiles laid over cement sand mortar (1:2) 3/4" thick jointed with white cement and matching pigment complete in all respects and as approved by the Engineer Incharge	2683	Sft							213 - 143.10 + 0.00 = 69.90	P.Sft	187,542	P-32 Analysis Attached
5	Providing and Fixing 3/4" thick pre-polished marble slab Granite Black Best Quality full width area upto 3' wide, laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / Directed by the Engineer Incharge. **(for Kitchen counter/vanity)**	197	Sft							913 - 507.00 + 0.00 = 406	P.Sft	79,982	P-32 Analysis Attached
6	P/F Of Antistatic Antibacterial Vinyl Flooring With Fixation On floor I/C Carriage Of Material From Market To Site Of Work Complete In All Respect As Approved/ Directed By The Engineer Incharge	3764	Sft.							611 405 - 0.00 + 0.00 = 611 405	P.Sft	21,998 304,220	P-34 Analysis Attached

BUILDING RESEARCH STATION
LAHORE

INSPECTION REPORT

ON

BALANCE WORK OF REVAMPING OF TEHSIL HEAD QUARTER HOSPITAL (THQ), SHUJABAD, DISTRICT MULTAN

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INSPECTION REPORT ON BALANCE WORK OF REVAMPING OF TEHSIL HEAD QUARTER HOSPITAL (THQ), SHUJABAD, DISTRICT MULTAN

1. GENERAL

A reference from Executive Engineer, Buildings Division-II, Multan was received in this Directorate vide letter No. 872/DB, dated 27.10.2021 regarding the dangerous condition of abandoned building portion of THQ Hospital, Shujabad.

2. SITE VISIT

In pursuance of aforementioned reference, a team from Building Research Station, Lahore headed by Mr. Muhammad Haseeb Khan, Deputy Director-I proceeded to the site on 23.11.2021 along with Mr. Muneer Ahmed, Sub Divisional Officer, Buildings Sub Division, Shujabad. Moreover Mr. Shahid Babar, Supervisor, Mechanical, Electrical, Plumbing, Generator Operations and Maintenance (MEPG), THQ Hospital, Shujabad also accompanied team during inspection.

3. INSPECTION

The single storey masonry structure of THQ Hospital had been constructed more than 50 years ago. Some portion of front Block of Hospital was revamped in 2017-18 and it was functional since then. However, the roof treatment of this Revamped Block was not carried out. It is further added that the Admin Block and Clinical Block were not retrofitted. The Clinical Block (back side block) had been abandoned since long due to dangerous condition of the roof slabs. However, Dialysis Unit was functional at some portion of this Block. The RCC roof slabs of Clinical Block and Admin Block were found in dilapidated condition. The concrete cover spalled out at most of the places of

Wards, Corridors and Rooms at Admin Block. The Soffit plaster was loose and detached from roof. The condition of roof of this Dialysis ward was found dangerous where patients were being treated. The detached pieces of disrupted concrete might fall on the patient at any time. The steel bars were exposed and corroded heavily. Some of the bars were reduced in diameter owing to corrosion at Clinical Block.

The excessive dampness was observed in roof slab and walls due to improper drainage over the roof. The slope of roof was found uneven considerably. The cement:sand:grouting was damaged and cracks were developed between roof tiles. The spouts were choked. The plaster on parapet wall was deteriorated at many locations at Clinical Block.

Moreover, the waste building material was dumped over the roof of revamped portion which also caused dampness in structure. The wires and cables were scattered on roof of revamped portion. The roof treatment of revamped block was also found in worn out condition. In addition, the rain water down pipes were broken and missing at some places of Clinical Block. The bricks were deteriorated due to efflorescence at some lower portion of Clinical Block. The RCC shades on windows and entrance towards mosque were deteriorated and disintegrated. The floors and masonry walls were found intact as no settlement or structural crack was observed at any place of Hospital Building.

4. CONCLUSION

Keeping in view the existing condition of the main building of THQ Hospital, Shujabad, it is concluded that the revamped portion of Hospital is structurally stable and intact. However, the roof slabs of Clinical Block and

Admin Block are found in dilapidated condition which need immediate measures regarding replacement/repair for further safety and durability.

5. RECOMMENDATIONS

In view of foregoing, following recommendations are suggested:-

i. The roof slabs of Clinical Block should be replaced.

ii. The damaged concrete cover in Admin Block should be repaired by using Ferro cement. In this process, the loose and damaged concrete should be removed. The rust on steel bars should be scrapped off thoroughly by using a hard brush. Subsequently, epoxy resin like styrene butadiene needs to be applied on the substrate. Then, expanded metal (mesh) should be nailed at regular spacing before the provision of soffit plaster.

iii. The roof treatment of Revamped Block of Hospital should be re-provided.

iv. The parapet walls of entire Hospital Building need to be re-plastered appropriately.

v. The broken and missing rain water down pipes should be re-installed.

vi. The Dialysis centre should be shifted from the dangerous portion of Clinical Block to any other safe place so that an untoward situation may be avoided.

DIRECTOR
Building Research Station,
Lahore

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)									Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		R.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
A	*Revamping of Existing Clinical Building*																	
1-	Cost of Dismantling of Existing Dangerous Building	~~1 Job~~	~~P.Job.~~			4,527,600	~~1 Job~~	~~P.Job.~~					3055700		3055700	-	4,527,600	
2-	Dismantling of Existing Fixtures												~~3280900~~		~~3,280,900~~	3,280,900	-	Detail Attached
3-	Re-Construction of Surgical/Male/Female Wards, OT Block, Verandahs, Isolation Unit, Dialysis Unit (Dangerous Buildings/Not in Use of Hospital)	23095	Sft	2540	P.Sft	58,661,300							6308512		6308512	-	58,661,300	Deleted due to new scope provided by the Client
4-	Re-Construction/Rehablitation/Renovation Civil Works						~~27820~~	~~Sft~~					~~63130600~~		~~63,130,600~~	63,130,600	-	Detail Attached
							~~Job~~	~~Job.~~										
B	*New Establishments/Re-Constructions Other than Clinical Building*																	
5-	Establishment of Medicine Store	692	Sft	2428	P.Sft	1,680,176									-	-	1,680,176	Deleted due to new scope provided by the Client
6-	Establishment of QMS Counters & Waiting Hall	1097	Sft	2428	P.Sft	2,663,516									-	-	2,663,516	Deleted due to new scope provided by the Client
7-	Construction of external platforms/pathways	1	Job	1077927	P.Sft	1,077,927									-	-	1,077,927	Deleted due to new scope provided by the Client
8-	Construction of Car Parking Shed	1	Job	4986473	P.Sft	4,986,473									-	-	4,986,473	Deleted due to new scope provided by the Client
9-	Provision of water filteration plant with supply system	1	Job	3285000	P.Sft	3,285,000									-	-	3,285,000	Deleted due to new scope provided by the Client
10-	Reconstruction of boundary wall 8' height above plinth level 715 + 613 + 712 + 546 = 2586 Rft	2586	Rft	5111	P.Rft	13,217,046							-		-	-	13,217,046	Deleted due to new scope provided by the Client
C	*Rehablitation of Water Supply Network (Internal/External)*																	
1-	Improvement of sewerage, sanitation and drainage system	1	Job	955200	P.Job.	955,200										-	955,200	Deleted due to new scope provided by the Client
2-	Replacement of Existing Internal Plumbing System (O.T, Main Building Un Revamped area and Emergency Block) (13735+3300+10467 = 27502 Sft)						27502	Sft				120	120	P.Sft	3,300,240	3,300,240	-	Plinth Area Rates 2nd-bi Annual 2022
3-	Rehablitation/Replacement of Existing Water Supply Lines						1	Job					833,600	P.Job	833,600	833,600	-	Detail Attached
4-	Construction of Overhead Water Stoarge Tank (Capacity : 10000 Gln)						10,000	Gln					365	P.Gln	3,650,000	3,650,000	-	Detail & Rate Analysis Attached
5-	Installation Of 1/2-Cusec Vertical Turbine Pump I/C Boring, Pump Chamber And Power Wiring etc						1	Job					~~7232000~~ 7,232,000	P.Job	~~7232000~~ ~~7,232,000~~	~~7032000~~ 7,232,000	-	Detail & Rate Analysis Attached
D	*Rehablitation of Sewerage and Sanitation Network (Internal/External)*																	
1-	Installation of disposal system with centrifugal pump including G.I pipeline, power wiring, construction of pump chamber 12' X 12' and sump with force main etc.						1	Job					~~4517000~~ ~~4,614,000~~	P.Job	~~4517000~~ ~~4,614,000~~	~~4517000~~ ~~4614,000~~	-	Detail & Rate Analysis Attached
2-	Provision of Sewer line and Manhole cover, Desilting of Existing Lines						1	Job					2,920,200	P.Job	2,920,200	2,920,200	-	Detail & Rate Analysis Attached
3-	Construction of Dumping Area For Hospital Waste (Boundary Wall 9" Thick & 6' Height above Plinth Level) (Corderned Area 70ftx 85ft)	310	Sft	2349	P.Rft	728,190							-		-	-	728,190	As per new scope provided by the Client
D	*Rehablitation of Electrification Network (Internal/External)*																	
1-	Rehablitation of external electrification system	1	Job	4071600	P.Job.	4,071,600										-	4,071,600	As per new scope provided by the Client
2-	Improvement of Internal Electrification	1	Job	1303564	P.Job	1,303,564										-	1,303,564	As per new scope provided by the Client
3-	Replacement/Rehablitation of Internal/External Electrification Network						1	Job					20,797,626	P.Job	20,797,626	20,797,626	-	Detail Attached
4-	Establishment of Machine Room/Electrical Room	570	Sft	2428	P.Sft	1,383,960	570	Sft	3605	3x65 = 195	227		4,027	P.Sft	2,295,390	911,430	-	Plinth Area Rates 2nd-bi Annual 2022

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)								Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area	B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
E	*Provision of Pathway, Gate and Gate Pillar for Access Emergecy Block Only*																
1-	Construction of Gate and Gate Pillar and Provision of Steel Gate (16'x6') size with wicket gate						1	Job				740,300	P.Job	740,300	740,300	-	Detail Attached
2-	Provision of Pathway infront of Emergecy Block Only						1	Job				764,655	P.Job	764,655	764,655	-	Plinth Area Rates 2nd bi-Annual 2022
F	*Internal/External Building Surfaces Improvement*																
1-	Improvement of Façade	1	Job	553400	P.Job.	553,400								-	-	553,400	Deleted due to new scope provided by the Client
2-	Improvement of internal external wall surfaces	1	Job	829171	P.Job.	829,171								-	-	829,171	Deleted due to new scope provided by the Client
G	*Additional Items/Non-Schedule Items/Improved Generic Specifications*																
1-	P /L Porcelain Tile Flooring 24"X24" Granite Master Tile with Dry / Wet Application DWV Series Polished (Light Colour) Class SB Laid Over Cement Sand Mortar (1:2) 3/4" Thick And Jointed With White Cement And Matching Pigment Etc Complete As Approved By The Engineeer Incharge	18080	Sft	184.9	P.Sft	3,342,992								-	-	3,342,992	Included in Civil Work at Sr. No. A(3)
2-	P /L Porcelain Tile Dado / Skirting 24"X24" Granite Master Tile with Dry / Wet Application DWV Series Polished (Light Colour) Class SB Laid Over Cement Sand Mortar (1:2) 3/4" Thick And Jointed With White Cement And Matching Pigment Etc Complete As Approved By The Engineeer Incharge	21298	Sft	161.9	P.Sft	3,448,146								-	-	3,448,146	Included in Civil Work at Sr. No. A(3)
3-	P/L CERAMIC WALL TILES (PREMIUM) (Matt /Glazed) light color Tiles Floor 12"x24" Tiles laid over cement sand mortar (1:2) 3/4" thick jointed with white cement and matching pigment complete in all respects and as approved by the Engineer Incharge	1283	Sft	89.9	P.Sft	115,342								-	-	115,342	Included in Civil Work at Sr. No. A(3)
4-	P/L CERAMIC WALL TILES (PREMIUM) (Matt /Glazed) light color Tiles Dado/Skirting 12"x24" Tiles laid over cement sand mortar (1:2) 3/4" thick jointed with white cement and matching pigment complete in all respects and as approved by the Engineer Incharge	2683	Sft	69.9	P.Sft	187,542								-	-	187,542	Included in Civil Work at Sr. No. A(3)
5-	Providing and Fixing 3/4" thick pre-polished marble slab Granite Black Best Quality full width area upto 3' wide, laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / Directed by the Engineer Incharge. (for Kitchen counter/vanity)	197	Sft	406	P.Sft	79,982								-	-	79,982	Deleted due to new scope provided by the Client
6-	P/F Of Antistatic Antibacterial Vinyl Flooring With Fixation On floor I/C Carriage Of Material From Market To Site Of Work Complete In All Respect As Approved/ Directed By The Engineer Incharge	3764	Sft	611	P.Sft	2,299,804								-	-	2,299,804	Deleted due to new scope provided by the Client
7-	Supply and installation anti microbial Hygenic Epoxy 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.					-	5712	Sft	550.00	-	-	550.00	P.Sft	3,141,600	3,141,600	-	Detail & Rate Analysis Attached
8-	CONSTRUCTION OF RECEPTION COUNTER BRICK MASONRY STRUCTURE 3.5' HEIGHT FROM GROUND LEVEL CONSISTING OF MARBLE GRENITE AND KITCHEN CABNIT 22" DEEP WITH BACK COMPLETE IN ALL RESPECT.	270	Sft	4355	P.Sft	1,175,850								-	-	1,175,850	Included in Civil Work at Sr. No. A(3)
9-	Providing And Laying Natural Sand Stone Tile (Chakwal Stone) Of Approved Shape And Size 18"X6"X1/2" Laid Over (Ratio 1:3) Cement Sand Mortar I/C Finishing Scaffolding And Curing Etc Complete In All Respects As Shown On The Drawing And As Approved By The Engineer Incharge	6929	Sft	339	P.Sft	2,348,931								-	-	2,348,931	Deleted due to new scope provided by the Client

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)									Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
10-	Providing And Applying Architectural Wall Coating (Sandex) I/C Preparing Surface And Applying 2mm Thick Acraylic Chips Paste As Per Approved Texture And Colour By The Architect Or Engineer Incharge	6929	Sft	44	P.Sft	304,876									-	-	304,876	Deleted due to new scope provided by the Client
11-	P/F Glazed Commode coupled with Glazed Flushing Cistern 03-Gallons capacity (Master OP-1) Prime quality of approved color and design complete in all respect and as approved by the Engineer Incharge.	15	Nos.	16880	Each	253,200									-	-	253,200	Included in Civil Work at Sr. No. C(2)
12-	Providing And Fixing Vanity Basin underneath the vanity slab, Design And Size of (MAster) Approved Quality i/c cost of Bottle trap (037A) and Waste coupling(085A) Complete In All Respects And As approved by the Engineer Incharge.	15	Nos.	13000	Each	195,000									-	-	195,000	Included in Civil Work at Sr. No. C(2)
13-	Providing And Fixing C.P basin mixer (Master 191) Approved Quality Complete In All Respects And As Approved by the engineer Incharge	15	Nos.	9220	Each	138,300									-	-	138,300	Included in Civil Work at Sr. No. C(2)
14-	P /F Muslim Shower Master made i/c flexible rod with C.P. double bib cock (master) best quality complete in all respects and as approved by the Engineer Incharge	28	Nos.	6700	Each	187,600									-	-	187,600	Included in Civil Work at Sr. No. C(2)
15-	Providing and Fixing of Exhaust fan 18" sweep Steel body frame G.F.C / Pak / Royal complete with electric connection a approved by the Engineer Incharge.	6	Nos.	5700	Each	34,200									-	-	34,200	Included in Civil Work at Sr. No. A(3)
16-	Providing and Fixing of Bracket Fan 18" (As per approved manufacturers) complete with electric connection a approved by the Engineer Incharge.					-	111	Nos.	5,300.00	-	-	-	5,300.00	Each	588,300	588,300	-	Detail & Rate Analysis Attached
17-	Supply & Installation of Phillips or Equivalent, LED Light 24"x24" (RC 091v LED 38S / 865 W) in Fasle Ceilign of approved manufacturer i/c cost of all labour & material complete, as approved by the Engineer Incharge..	65	Nos.	10560	Each	686,400	222	Nos.	14,820.00	-	-	-	14,820.00	Each	3,290,040	2,603,640	-	Detail & Rate Analysis Attached
18-	Providing and Laying Insulation material of Extruded Polystyrene XP Sin Rigid Insulation / Foam Board on roof or walls, Density 32-38 Kg / M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1%byvolume, cell structure clored cell) i/c cutting and placing in position complete in all respect. 1-1/2" thick	20786	Sft	8466	%Sft	1,759,743									-	-	1,759,743	Included in Civil Work at Sr. No. A(3)
19-	Making and fixing PVC Doors 1-1/2" thick consisting of PVC Frame and PVC Leaves i/c hinges complete in all respects as approved design /color by the Engineer Incharge	490	Sft	700	P.Sft	343,000	389	Sft.	1,040.00	-	-	-	1,040.00	P.Sft	404,560	61,560	-	Detail & Rate Analysis Attached
20-	Providing and Fixing Stainless Steel Pipe 2" dia Hand Rail complete in all respects and as approved by the Engineer Incharge	1264	Rft	460	P.Sft	581,440									-	-	581,440	Included in Civil Work at Sr. No. A(3)
21-	P/F of LEAD Lining 2mm thick lead sheet with wall for radiation protection upto roof height as aper instruction & covering with MDF Board 3/4" thick panelling i/c frame of Kail Wood 1-1/2"x2" i/c termite proofing & fancy Deodar Wood Beading complete in all respect as approved and directed by the Engineer Incharge also approved the Radiation Protecting agency etc.	525	Sft	970	P.Sft	509,250									-	-	509,250	Deleted due to new scope provided by the Client
22-	P/F False ceilling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.	18377	Sft	360	P Sft	6,615,720	1530	Sft.	360.00	-	-	-	360.00	P.Sft	550,800	-	6,064,920	Detail & Rate Analysis Attached

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)								Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
23-	providing & fixing of razor cut wire fencing double sharp four pointed razors 1-1/2" c/c with u-shaped cladding over g.i wire approved design and approved manufacture making rings of 24 " dia 3-nos rings in 1-rft length fixed on wall with m.s angle iron post 1-1/2"x1-1/2"x3/16", 2'-0" clear height (paid separtely) embeded in base of pcc 1:2:4 size 9"x9"x3" i/c 02-nos m.s bars 1/2" dia welded horizontally with angle irons i/c binding wire i/c painting posts etc i/c cost of all material and labour complete in all respects and as approved by the engineer incharge	2586	Rft	380	P.Rft	1,005,983								-	-	1,005,983	As per new scope provided by the Client
24-	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					-	2780	Rft.	580.00	-	-	-	580.00	P.Rft	1,612,400	1,612,400	-	Detail & Rate Analysis Attached
25-	Making And Fixing Stainless Steel Cladding 20-SWG I/C Fixing With Screws On Columns Complete In All Respects And As Approved By The Engineer Incharge					-	576	Sft	1,060.00	-	-	-	1,060.00	P. Sft	610,560	610,560	-	Detail & Rate Analysis Attached
26-	Making And Fixing Stainless Steel Sheet 20-SWG upto height of strecher or half of door height I/C Fixing With Screws On Door Complete In All Respects And As Approved By The Engineer Incharge					-	1332	Sft.	1,075.00	-	-	-	1,075.00	P. Sft	1,431,900	1,431,900	-	Detail & Rate Analysis Attached
27-	P/F Of Lead Lining 1.5mm Thick Lead Sheet With Wall For Radiation Protection Upto Roof Height As Aper Instruction & Covering With Wall Panelling I/C Frame Complete In All Respect As Approved And Directed By The Engineer Incharge Also Approved The Radiation Protecting Agency Etc.					-	768	Sft	1,269.00	-	-	-	1,269.00	P.Sft	974,592	974,592	-	Detail & Rate Analysis Attached
28-	Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick 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					-	768	Sft	800.00	-	-	-	800.00	P.Sft	614,400	614,400	-	Detail & Rate Analysis Attached
29-	Supply and Installation of Philips LED Bulb 24W E27 3000K 230V A80 1CT/6 APR (Philips made) Complete in all respects as approved by the Engineer Incharge					-	764	Nos.	1,150.00	-	-	-	1,150.00	Each	878,600	878,600	-	Detail & Rate Analysis Attached
30-	Supply and installation of Phillips or Equilent, 12-Watt SMD light 3" dia of approved manufacturer i/c cost of all labour & material complete in all respect as approved by the Engineer Incharge.					-	444	Nos.	1,150.00	-	-	-	1,150.00	Each	510,600	510,600	-	Detail & Rate Analysis Attached
31-	S/E A.C ceiling fan 56" sweep i/c regulaor.					-	222	Nos.	6,500.00	-	-	-	6,500.00	Each	1,443,000	1,443,000	-	Detail & Rate Analysis Attached
H	*Additional Provisions*																	
1-	Provision of Fire Alarm System	1	Job	749720	P.Rft	749,720	27502	Sft	50				50	P. Job	1,375,100	625,380	-	Plinth Area Rates 2nd-bi Annual 2022
2-	Provision of Fully Automatic Reverse Osmosis system Water Filteration Plant						1	Set	2400000				2,400,000	P. Job	2,400,000	2,400,000	-	Detail & Rate Analysis Attached
3-	Establishment of Water Filteration Plant Room i/c Plumbing & Electrical Accessories						570	Sft	3605	3x65 = 195	227	120	4,147	P.Sft	2,363,790	2,363,790	-	Plinth Area Rates 2nd-bi Annual 2022
4-	Establishment of New Room Connected with OT Block for Autoclave & Washing Operations (10'x12')						120	Sft	3558	3x65 = 195	227	120	4,100	P.Sft	492,000	492,000	-	Plinth Area Rates 2nd-bi Annual 2022
5-	Provision of Fire Fighting System	1	Job	817040	P.Rft	817,040									-	-	817,040	Deleted due to new scope provided by the Client
6-	Provision of CCTV Surveliance System	1	Job	190000	P.Rft	190,000									135674065 ~~135944753~~ 8650869	~~8,947,569~~	190,000	Deleted due to new scope provided by the Client
					Total	127,294,184								Total	~~136,241,753~~	~~8,947,569~~	-	

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area MRS 2nd Bi-Annual 2022)								Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area	B.P	Add for each 1' deeper foundation	E.I	P.H.P	Total	Unit	Amount	Excess	Saving	
A	*Revamping of Existing Clinical Building*																
1-	Cost of Dismantling of Existing Dangerous Building					4,527,600								-	-	4,527,600	
2-	Dismantling of Existing Fixtures													3,280,900	3,280,900	-	Detail Attached
3-	Re-Construction of Surgical/Male/Female Wards, OT Block, Verandahs, Isolation Unit, Dialysis Unit (Dangerous Buildings/Not in Use of Hospital)	23095	Sft	2540	P.Sft	58,661,300								-	-	58,661,300	deleted due to new Scope Revised scope provided by the dist
4-	Re-Construction/Rehablitation/Renovation Civil Works						27820	Sft						~~63,138,600~~ 6313600	~~63,138,600~~ 6313600	-	Detail Attached
B	*New Establishments/Re-Constructions Other than Clinical Building*																
5-	Establishment of Medicine Store	692	Sft	2428	P Sft	1,680,176								-	-	1,680,176	~~Scope Revised~~
6-	Establishment of QMS Counters & Waiting Hall	1097	Sft	2428	P.Sft	2,663,516								-	-	2,663,516	~~Scope Revised~~
7-	Construction of external platforms/pathways	1	Job	1077927	P.Sft	1,077,927								-	-	1,077,927	~~Scope Revised~~
8-	Construction of Car Parking Shed	1	Job	4986473	P.Sft	4,986,473								-	-	4,986,473	~~Scope Revised~~
9-	Provision of water filteration plant with supply system	1	Job	3285000	P Sft	3,285,000								-	-	3,285,000	~~Scope Revised~~
10-	Reconstruction of boundary wall 8' height above plinth level 715 + 613 + 712 + 546 = 2586 Rft	2586	Rft	5111	P Rft	13,217,046						-		-	-	13,217,046	~~Scope Revised~~
C	*Rehablitation of Water Supply Network (Internal/External)*																
1-	Improvement of sewerage, sanitation and drainage system	1	Job	955200	P Job.	955,200									-	955,200	~~Scope Revised~~
2-	Replacement of Existing Internal Plumbing System (O.T, Main Building Un-Revamped area and Emergency Block) (13735+3300+10467 = 27502 Sft)						27502	Sft			120	120	P.Sft	3,300,240	3,300,240	-	Plinth Area Rates 2nd-bi Annual 2022
3-	Rehablitation/Replacement of Existing Water Supply Lines						1	Job				833,600	P Job	833,600	833,600	-	Detail Attached
4-	Construction of Overhead Water Stoarge Tank (Capacity 10000 Gln)						10,000	Gln				~~366~~ 365	P Gln	~~3,660,000~~ 3650,000	~~3,660,000~~ 3650,000	-	Detail & Rate Analysis Attached
5-	Installation Of 1/2-Cusec Vertical Turbine Pump I/C Boring, Pump Chamber And Power Wiring etc						1	Job				~~7,270,000~~ 7232000	P Job	~~7,270,000~~ 7232000	~~7,270,000~~ 7232000	-	Detail & Rate Analysis Attached
D	*Rehablitation of Sewerage and Sanitation Network (Internal/External)*																
1-	Installation of disposal system with centrifugal pump including G.I pipeline, power wiring, construction of pump chamber 12' X 12' and sump with force main etc.						1	Job				~~4,652,000~~ 4614000	P.Job	~~4,652,000~~ 4614000	~~4,652,000~~ 4614000	-	Detail & Rate Analysis Attached
2-	Provision of Sewer line and Manhole cover, Desilting of Existing Lines						1	Job				2,920,200	P.Job	2,920,200	2,920,200	-	Detail & Rate Analysis Attached
3-	Construction of Dumping Area For Hospital Waste (Boundary Wall 9" Thick & 6' Height above Plinth Level) (Cordemed Area 70ftx 85ft)	310	Sft	2349	P.Rft	728,190						-		-	-	728,190	deleted due to new Scope Revised Scope provided
D	*Rehablitation of Electrification Network (Internal/External)*																
1-	Rehablitation of external electrification system	1	Job	4071600	P.Job.	4,071,600									-	4,071,600	~~Scope Revised~~
2-	Improvement of Internal Electrification	1	Job	1303564	P.Job.	1,303,564									-	1,303,564	~~Scope Revised~~

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)									Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
3-	Replacement/Rehablitation of Internal/External Electrification Network						1	Job					20,797,626	P.Job	20,797,626	20,797,626	-	Detail Attached
4-	Establishment of Machine Room/Electrical Room	570	Sft	2428	P.Sft	1,383,960	570	Sft	3605	3x65 = 195	227		4,027	P.Sft	2,295,390	911,430	-	Plinth Area Rates 2nd-bi Annual 2022
E	*Provision of Pathway, Gate and Gate Pillar for Access Emergecy Block Only*																	
1-	Construction of Gate and Gate Pillar and Provision of Steel Gate (16'x6') size with wicket gate						1	Job					740,300	P.Job	740,300	740,300	-	Detail Attached
2-	Provision of Pathway infront of Emergecy Block Only						1	Job					764,655	P.Job	764,655	764,655	-	Plinth Area Rates 2nd-bi Annual 2022
F	*Internal/External Building Surfaces Improvement*																	
1-	Improvement of Façade	1	Job	553400	P.Job	553,400									-	-	553,400	Scope Revised
2-	Improvement of internal external wall surfaces	1	Job	829171	P.Job.	829,171									-	-	829,171	Scope Revised
G	*Additional Items/Non-Schedule Items/Improved Generic Specifications*																	
1-	P /L Porcelain Tile Flooring 24"X24" Granite Master Tile with Dry / Wet Application DWV Series Polished (Light Colour) Class SB Laid Over Cement Sand Mortar (1 2) 3/4" Thick And Jointed With White Cement And Matching Pigment Etc Complete As Approved By The Engineeer Incharge	18080	Sft	184 9	P.Sft	3,342,992									-	-	3,342,992	Included in Civil Work at Sr. No. A(3)
2-	P /L Porcelain Tile Dado / Skirting 24"X24" Granite Master Tile with Dry / Wet Application DWV Series Polished (Light Colour) Class SB Laid Over Cement Sand Mortar (1:2) 3/4" Thick And Jointed With White Cement And Matching Pigment Etc Complete As Approved By The Engineeer Incharge	21298	Sft	161.9	P.Sft	3,448,146									-	-	3,448,146	Included in Civil Work at Sr. No. A(3)
3-	P/L CERAMIC WALL TILES (PREMIUM) (Matt /Glazed) light color Tiles Floor 12"x24" Tiles laid over cement sand mortar (1:2) 3/4" thick jointed with white cement and matching pigment complete in all respects and as approved by the Engineer Incharge	1283	Sft	89.9	P.Sft	115,342									-	-	115,342	Included in Civil Work at Sr No. A(3)
4-	P/L CERAMIC WALL TILES (PREMIUM) (Matt /Glazed) light color Tiles Dado/Skirting 12"x24" Tiles laid over cement sand mortar (1 2) 3/4" thick jointed with white cement and matching pigment complete in all respects and as approved by the Engineer Incharge	2683	Sft	69 9	P.Sft	187,542									-	-	187,542	Included in Civil Work at Sr. No A(3)
5-	Providing and Fixing 3/4" thick pre-polished marble slab Granite Black Best Quality full width area upto 3' wide, laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / Directed by the Engineer Incharge (for Kitchen counter/vanity)	197	Sft	406	P.Sft	79,982									-	-	79,982	Included in Civil Work at Sr. No. A(3)
6-	P/F Of Antistatic Antibacterial Vinyl Flooring With Fixation On floor I/C Carriage Of Material From Market To Site Of Work Complete In All Respect As Approved/ Directed By The Engineer Incharge	3764	Sft	611	P.Sft	2,299,804									-	-	2,299,804	Scope Revised
7-	Supply and installation anti microbial Hygenic Epoxy 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.	-	-	-	-	-	5712	Sft	550 00	-	-	-	550.00	P.Sft	3,141,600	3,141,600	-	Detail & Rate Analysis Attached
8-	CONSTRUCTION OF RECEPTION COUNTER BRICK MASONRY STRUCTURE 3 5' HEIGHT FROM GROUND LEVEL CONSISTING OF MARBLE GRENITE AND KITCHEN CABNIT 22" DEEP WITH BACK COMPLETE IN ALL RESPECT.	270	Sft	4355	P.Sft	1,175,850									-	-	1,175,850	Included in Civil Work at Sr No A(3)

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)									Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
9-	Providing And Laying Natural Sand Stone Tile (Chakwal Stone) Of Approved Shape And Size 18"X6"X1/2" Laid Over (Ratio 1:3) Cement Sand Mortar I/C Finishing Scaffolding And Curing Etc Complete In All Respects As Shown On The Drawing And As Approved By The Engineer Incharge	6929	Sft	339	P.Sft	2,348,931									-	-	2,348,931	Scope Revised
10-	Providing And Applying Architectural Wall Coating (Sandex) I/C Preparing Surface And Applying 2mm Thick Acraylic Chips Paste As Per Approved Texture And Colour By The Architect Or Engineer Incharge	6929	Sft	44	P.Sft	304,876									-	-	304,876	Scope Revised
11-	P/F Glazed Commode coupled with Glazed Flushing Cistern 03-Gallons capacity (Master OP-1) Prime quality of approved color and design complete in all respect and as approved by the Engineer Incharge.	15	Nos.	16880	Each	253,200									-	-	253,200	Included in Civil Work at Sr No. C(2)
12-	Providing And Fixing Vanity Basin underneath the vanity slab, Design And Size of (MAster) Approved Quality i/c cost of Bottle trap (037A) and Waste coupling(085A) Complete In All Respects And As approved by the Engineer Incharge	15	Nos.	13000	Each	195,000									-	-	195,000	Included in Civil Work at Sr No. C(2)
13-	Providing And Fixing C.P basin mixer (Master 191) Approved Quality Complete In All Respects And As Approved by the engineer Incharge	15	Nos.	9220	Each	138,300									-	-	138,300	Included in Civil Work at Sr. No. C(2)
14-	P /F Muslim Shower Master made i/c flexible rod with C.P. double bib cock (master) best quality complete in all respects and as approved by the Engineer Incharge	28	Nos	6700	Each	187,600									-	-	187,600	Included in Civil Work at Sr. No C(2)
15-	Providing and Fixing of Exhaust fan 18" sweep Steel body frame G.F C / Pak / Royal complete with electric connection a approved by the Engineer Incharge.	6	Nos	5700	Each	34,200									-	-	34,200	Included in Civil Work at Sr. No. A(3)
16-	Providing and Fixing of Bracket Fan 18" (As per approved manufacturers) complete with electric connection a approved by the Engineer Incharge					-	111	Nos	5,300.00	-	-	-	5,300.00	Each	588,300	588,300	-	Detail & Rate Analysis Attached
17-	Supply & Installation of Phillips or Equivalent, LED Light 24"x24" (RC 091v LED 38S / 865 W) in Fasle Ceilign of approved manufacturer i/c cost of all labour & material complete, as approved by the Engineer Incharge	65	Nos	10560	Each	686,400	222	Nos.	14,820.00	-	-	-	14,820.00	Each	3,290,640	2,603,640	-	Detail & Rate Analysis Attached
18-	Providing and Laying Insulation material of Extruded Polystyrene XP Sm Rigid Insulation / Foam Board on roof or walls, Density 32-38 Kg / M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1%byvolume, cell structure clored cell) i/c cutting and placing in position complete in all respect 1-1/2" thick	20786	Sft	8466	%Sft	1,759,743									-	-	1,759,743	Included in Civil Work at Sr. No. A(3)
19-	Making and fixing PVC Doors 1-1/2" thick consisting of PVC Frame and PVC Leaves i/c hinges complete in all respects as approved design /color by the Engineer Incharge	490	Sft	700	P Sft	343,000	389	Sft	1,040.00	-	-	-	1,040.00	P.Sft	404,560	61,560	-	Detail & Rate Analysis Attached
20-	Providing and Fixing Stainless Steel Pipe 2" dia Hand Rail complete in all respects and as approved by the Engineer Incharge	1264	Rft	460	P Sft	581,440									-	-	581,440	Included in Civil Work at Sr. No A(3)
21-	P/F of LEAD Lining 2mm thick lead sheet with wall for radiation protection upto roof height as aper instruction & covering with MDF Board 3/4" thick panelling i/c frame of Kail Wood 1-1/2"x2" i/c termite proofing & fancy Deodar Wood Beading complete in all respect as approved and directed by the Engineer Incharge also approved the Radiation Protecting agency etc	525	Sft	970	P.Sft	509,250									-	-	509,250	Scope Revised
22-	P/F False ceilling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding,' carriage charges complete in all respect & as approved by the Engineer Incharge.	18377	Sft	360	P.Sft	6,615,720	1530	Sft.	360.00	-	-	-	360.00	P.Sft	550,800	-	6,064,920	Detail & Rate Analysis Attached

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)									Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	Excess	Saving	
23-	providing & fixing of razor cut wire fencing double sharp four pointed razors 1-1/2" c/c with u-shaped cladding over g.i wire approved design and approved manufacture making rings of 24 " dia 3-nos rings in 1-rft length fixed on wall with m.s angle iron post 1-1/2"x1-1/2"x3/16", 2'-0" clear height (paid separtely) embeded in base of pcc 1:2:4 size 9"x9"x3" i/c 02-nos m.s bars 1/2" dia welded horizontally with angle irons i/c binding wire i/c painting posts etc i/c cost of all material and labour complete in all respects and as approved by the engineer incharge	2586	Rft	380	P.Rft	1,005,983								-	-	1,005,983	Scope Revised
24-	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.					-	2780	Rft.	580.00	-	-	-	580.00	P.Rft	1,612,400	1,612,400	-	Detail & Rate Analysis Attached
25-	Making And Fixing Stainless Steel Clading 20-SWG I/C Fixing With Screws On Columns Complete In All Respects And As Approved By The Engineer Incharge					-	576	Sft	1,060.00	-	-	-	1,060.00	P. Sft	610,560	610,560	-	Detail & Rate Analysis Attached
26-	Making And Fixing Stainless Steel Sheet 20-SWG upto height of strecher or half of door height I/C Fixing With Screws On Door Complete In All Respects And As Approved By The Engineer Incharge					-	1332	Sft	1,075.00	-	-	-	1,075.00	P. Sft	1,431,900	1,431,900	-	Detail & Rate Analysis Attached
27-	P/F Of Lead Lining 1.5mm Thick Lead Sheet With Wall For Radiation Protection Upto Roof Height As Aper Instruction & Covering With Wall Panelling I/C Frame Complete In All Respect As Approved And Directed By The Engineer Incharge Also Approved The Radiation Protecting Agency Etc.					-	768	Sft	1,269.00	-	-	-	1,269.00	P.Sft	974,592	974,592	-	Detail & Rate Analysis Attached
28-	Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick 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.					-	768	Sft	800.00	-	-	-	800.00	P.Sft	614,400	614,400	-	Detail & Rate Analysis Attached
29-	Supply and Installation of Philips LED Bulb 24W E27 3000K 230V A80 1CT/6 APR (Philips made) Complete in all respects as approved by the Engineer Incharge					-	764	Nos.	1,150.00	-	-	-	1,150.00	Each	878,600	878,600	-	Detail & Rate Analysis Attached
30-	Supply and installation of Phillips or Equilent, 12-Watt SMD light 3" dia of approved manufacturer i/c cost of all labour & material complete in all respect as approved by the Engineer Incharge.					-	444	Nos.	1,150.00	-	-	-	1,150.00	Each	510,600	510,600	-	Detail & Rate Analysis Attached
31-	S/E A.C ceiling fan 56" sweep i/c regulaor.					-	222	Nos	6,500.00	-	-	-	6,500.00	Each	1,443,000	1,443,000	-	Detail & Rate Analysis Attached
H	*Additional Provisions*																	
1-	Provision of Fire Alarm System	1	Job	749720	P Rft	749,720	27502	Sft	50				50	P. Job	1,375,100	625,380	-	Plinth Area Rates 2nd-bi Annual 2022
2-	Provision of Fully Automatic Reverse Osmosis system Water Filteration Plant						1	Set	2400000				2,400,000	P. Job	2,400,000	2,400,000	-	Detail & Rate Analysis Attached
3-	Establishment of Water Filteration Plant Room i/c Plumbing & Electrical Accessories						570	Sft	3605	3x65 = 195	227	120	4,147	P.Sft	2,363,790	2,363,790	-	Plinth Area Rates 2nd-bi Annual 2022
4-	Establishment of New Room Connected with OT Block for Autoclave & Washing Operations (10'x12')						120	Sft	3558	- 3x65 - 195	227	120	4,100	P Sft	492,000	492,000	-	Plinth Area Rates 2nd-bi Annual 2022
5-	Provision of Fire Fighting System	1	Job	817040	P.Rft	817,040									-	-	817,040	Deleted due to new Scope Revised
6-	Provision of CCTV Surveliance System	1	Job	190000	P Rft	190,000									-	-	190,000	Scope Revised provided by client
					Total	127,294,184								Total	~~136,335,753~~ 136241753	9,041,569 8947569	-	

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	As per R.C.E/A.A (As per Plinth Area/MRS 2nd Bi-Annual 2021)					As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)								Difference		Remarks
		Area	Unit	Rate	Unit	Amount	Total Area		B.P	Add for each 1' deeper foundation	E.I	P.H.P	Total	Unit	Amount	Excess	Saving	
	Deduction of Cost of Old Material				(-)	6,191,000								(-)	~~6,325,567~~ 6565427	~~134,567~~ 174427	-	
					Total	121,108,189							129308638	Total	~~130,010,346~~ 129308638	~~2,902,057~~ 8471137	-	
	Add External Development					6,438,895									~~6,478,966~~ 6478966	~~40,071~~ 40071	-	
					Total	127,547,084							129308638	Total:	~~130,489,312~~ ~~130,010,158~~	~~2,942,228~~ ~~2,463,074~~ 8511208	-	
	Add MEPCO Charges				(+)	1,000,000								(+)	2,500,000	1,500,000	-	
	Add External WASA Charges				(+)	350,000								(+)	350,000		-	
	Add 5% PRA				(+)	6,377,354							6465432	(+)	~~6,825,536~~ 6582975	~~448,184~~ 425566	-	
	~~Add 1% Horticulture Charges~~				(+)	1,275,471								(+)	~~1,369,108~~ 1360583	~~93,637~~ 85112	-	
					Grand Total:	136,549,909							138624078	Grand Total:	~~147,551,404~~ 147071790	~~11,001,495~~ 10521881	-	
					SAY:	136,550,000							138624000	SAY:	~~147,551,000~~ 147072000	~~11,001,000~~ 10522000	-	
					OR:	136.550 (M)								OR:	~~147.551 (M)~~	~~11.001~~	~~0.000 (M)~~	

138-624 ~~147.072 (M)~~ 10.522 (M)

As per Original R.C.E/A.A : 136.550 (M)

As per Rvised Rough Cost Estimate : ~~147.551 (M)~~ 147.402 (M)

Difference: ~~11.001 (M)~~ 10.852 (M)

%age : ~~8.06%~~ 7.95% Excess over Original A A

Sub Engineer

Sub-Divisional Officer
Buildings Sub-Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

Superintending Engineer
Building Circle Multan

TECHNICALLY VETTED 138-624

For Rs. ~~147.072~~ (Million)

Chief Engineer	Deputy Director	Chief Draftsman
Punjab Buildings Deptt; South Zone, Lahore.	Punjab Buildings Deptt; South Zone, Lahore.	Punjab Buildings Deptt; South Zone, Lahore.

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Sr. No.	Description	Total Area		As per Rvised Rough Cost Estimate (As per Plinth Area/MRS 2nd Bi-Annual 2022)							Remarks
				B.P	Add for each 1' deeper foundation	E.I	P,H,P	Total	Unit	Amount	
A	***Revamping of Existing Clinical Building***										
1-	Dismantling of Existing Fixtures									3,280,900	Detail Attached
2-	Re-Construction/Rehablitation/Renovation Civil Works									~~63,138,600~~ 63130600	Detail Attached
B	***Rehablitation of Water Supply Network (Internal/External)***										
1-	Replacement of Existing Internal Plumbing System (O.T, Main Building Un-Revamped area and Emergency Block) (13735+3300+10467 = 27502 Sft)	27502	Sft				120	120	P.Sft	3,300,240	Plinth Area Rates 2nd-bi Annual 2022
2-	Rehablitation/Replacement of Existing Water Supply Lines	1	Job					833,600	P.Job	833,600	Plinth Area Rates 2nd-bi Annual 2022
3-	Construction of Overhead Water Tank (Capacity : 10000 Gln)	10000	Gln					365 ~~366~~	P.Gln	~~3,660,000~~ 3650000	Detail & Rate Analysis Attached
4-	Installation Of 1/2-Cusec Vertical Turbine Pump I/C Boring, Pump Chamber And Power Wiring etc	1	Job					7,270,000	P.Job	~~7,270,000~~ 7232000	Detail & Rate Analysis Attached
C	***Rehablitation of Sewerage and Sanitation Network (Internal/External)***										
1-	Installation of disposal system with centrifugal pump including G.I. pipeline, power wiring, construction of pump chamber 12' X 12' and sump with force main etc.	1	Job					4,652,000	P.Job	~~4,652,000~~ 4614000	Detail & Rate Analysis Attached
2-	Provision of Sewer line and Manhole cover, Desilting of Existing Lines	1	Job					2,920,200	P.Job	2,920,200	Detail Attached
D	***Rehablitation of Electrification Network (Internal/External)***										
1-	Replacement/Rehablitation of Internal/External Electrification Network	1	Job					20,797,626	P.Job	20,797,626	Detail Attached
2-	Establishment of Machine Room/Electrical Room	570	Sft	3605	3x65 = 195	227		4,027	P.Sft	2,295,390	Plinth Area Rates 2nd-bi Annual 2022
E	***Provision of Pathway, Gate and Gate Pillar for Access Emergecy Block Only***										
1-	Construction of Gate and Gate Pillar and Provision of Steel Gate (16'x6') size with wicket gate	1	Job					740,300	P.Job	740,300	Detail Attached
2-	Provision of Pathway infront of Emergecy Block Only	1	Job					764,655	P.Job	764,655	Detail Attached
F	***Additional Items/Non-Schedule Items/Improved Generic Specifications***										

1-	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.	2780	Rft.	580				580	P.Rft	1,612,400	Detail & Rate Analysis Attached
2-	Making And Fixing Stainless Steel Clading 20-SWG I/C Fixing With Screws On Columns Complete In All Respects And As Approved By The Engineer Incharge	576	Sft	1060				1060	P. Sft	610,560	Detail & Rate Analysis Attached
3-	Making And Fixing Stainless Steel Sheet 20-SWG upto height of strecher or half of door height I/C Fixing With Screws On Door Complete In All Respects And As Approved By The Engineer Incharge	1332	Sft.	1075				1075	P. Sft	1,431,900	Detail & Rate Analysis Attached
4-	P/F False ceilling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.	1530	Sft.	360				360	P.Sft	550,800	Detail & Rate Analysis Attached
5-	P/F Of Lead Lining 1.5mm Thick Lead Sheet With Wall For Radiation Protection Upto Roof Height As Aper Instruction & Covering With Wall Panelling I/C Frame Complete In All Respect As Approved And Directed By The Engineer Incharge Also Approved The Radiation Protecting Agency Etc.	768	Sft	1269				1269	P.Sft	974,592	Detail & Rate Analysis Attached
6-	Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick 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.	768	Sft	800				800	P.Sft	614,400	Detail & Rate Analysis Attached
7-	Supply and installation anti microbial Hygenic Epoxy 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.	5712	Sft	550				550	P.Sft	3,141,600	Detail & Rate Analysis Attached
8-	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	389	Sft.	1040				1040	P.Sft	404,560	Detail & Rate Analysis Attached
9-	Providing and fixing high quality LED SMD Panel Light 2 ft×2 ft of 48 watt/4000 k wattage anf Luminous flux with Polystyrene bowl/prismatic cover made of Philips as approved and direced by the Engineer Incharge.	222	Nos.	14820				14820	Each	3,290,040	Detail & Rate Analysis Attached
10-	Supply and Installation of Philips LED Bulb 24W E27 3000K 230V A80 1CT/6 APR (Philips made) Complete in all respects as approved by the Engineer Incharge	764	Nos.	1150				1150	Each	878,600	Detail & Rate Analysis Attached
11-	Providing and Fixing of Bracket Fan 18" (As per approved manufacturers) complete with electric connection a approved by the Engineer Incharge.	111	Nos.	5300				5300	Each	588,300	Detail & Rate Analysis Attached
12-	Supply and installation of Phillips or Equilent, 12-Watt SMD light 3" dia of approved manufacturer i/c cost of all labour & material complete in all respect as approved by the Engineer Incharge.	444	Nos.	1150				1150	Each	510,600	Detail & Rate Analysis Attached
13-	S/E A.C ceiling fan 56" sweep i/c regulaor.	222	Nos.	6500				6500	Each	1,443,000	Detail & Rate Analysis Attached

G	***Additional Provision***										
1-	Fire Alarm System	27502	Sft	50				50	P.Sft	1,375,100	
2-	Provision of Fully Automatic Reverse Osmosis system Water Filteration Plant	1	Set	2400000				2400000	P. Set	2,400,000	
3-	Establishment of Water Filteration Plant Room i/c Plumbing & Electrical Ascessories	570	Sft	3605	3x65 = 195	227	120	4,147	P.Sft	2,363,790	Plinth Area Rates 2nd-bi Annual 2022
4-	Establishment of New Room Connected with OT Block for Autoclave & Washing Operations (10'x12')	120	Sft	3558	3x65 = 195	227	120	4,100	P.Sft	492,000	Plinth Area Rates 2nd-bi Annual 2022
									Total	~~136,335,953~~ 136211753/	

Recovery of Old Material	(-)	~~6,325,507~~ 6365427/—
	Total:	~~130,010,246~~ 129876326
Add 5% External Development		~~6,500,512~~ 6493816/—
	Total:	~~136,510,758~~ 136370142
Add External WASA Charges		350,000
Add WAPDA Charges		2,500,000
Add 5% PRA		~~6,825,538~~ 6818507/—
Add 1% Horticulture Charges		~~1,365,108~~ 1363701/—
	Grand Total:	~~147,551,404~~ 147402350/—
	SAY:	~~147,551,000~~ 147402000
	OR:	~~147.551 (M)~~ 147.402 (M)

Sub Engineer

Sub-Divisional Officer
Buildings Sub-Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

DISMANTLING OF OLD CLINICAL BUILDING

1 Dismantling 2nd class tile roofing.

Operation Theater	1	x	86	x	34 1/4		=	2946 Sft
	2	x	8.5	x	3/4		=	13 Sft
	1	x	70.5	x	5		=	353 Sft
	1	x	17.5	x	4 1/2		=	79 Sft
Connecting Corridor	1	x	8	x	31 3/4		=	254 Sft
Main Building	1	x	161	x	58 5/8		=	9439 Sft
Staff Portion	1	x	85.875	x	25 1/8		=	2158 Sft
	1	x	56	x	17 1/8		=	959 Sft
Emergency	1	x	129.5	x	78 1/4		=	10133 Sft
Main Building	1	x	50.125	x	16 3/8		=	821 Sft
	1	x	33.125	x	60 1/8		=	1992 Sft
	1	x	100.25	x	25 1/8		=	2519 Sft
	1	x	78.75	x	17 1/8		=	1349 Sft
Wards (B)	1	x	130.125	x	50 1/4		=	6539 Sft
	1	x	112.5	x	9		=	1013 Sft
Labs	1	x	136.125	x	41 1/2		=	5649 Sft
Connecting corridor	1	x	13.5	x	7 1/2		=	101 Sft
D/d Khurra.	70	x	2	x	2		=	-280 Sft
						Total:		**46037 Sft.**
							@	1273.80 % Sft. Rs.586419/-

2 Dismantling Brick work in cement/Lime mortar.

Building Parapet									
O.T	2	x	27.25	x	3/4	x 1 1/2	=		61 Cft.
"	2	x	3.75	x	3/4	x 1 1/2	=		8 Cft.
"	1	x	19.125	x	3/4	x 1 1/2	=		22 Cft.
"	2	x	9.25	x	3/4	x 1 1/2	=		21 Cft.
"	2	x	4.25	x	3/4	x 1 1/2	=		10 Cft.
"	2	x	34.125	x	3/4	x 1 1/2	=		77 Cft.
"	2	x	11.5	x	3/4	x 1 1/2	=		26 Cft.
"	2	x	30.5	x	3/4	x 1 1/2	=		69 Cft.
Corridor	2	x	30.25	x	3/4	x 1 1/2	=		68 Cft.
Main Building	2	x	77.25	x	3/4	x 1 1/2	=		174 Cft.
"	1	x	54.625	x	3/4	x 1 1/2	=		61 Cft.
"	1	x	47.875	x	3/4	x 1 1/2	=		54 Cft.
"	2	x	14.25	x	3/4	x 1 1/2	=		32 Cft.
"	1	x	3.25	x	3/4	x 1 1/2	=		4 Cft.
"	1	x	10	x	3/4	x 1 1/2	=		11 Cft.
"	2	x	64.375	x	3/4	x 1 1/2	=		145 Cft.
Staff Portion	1	x	85.5	x	3/4	x 1 1/2	=		96 Cft.
"	1	x	25.125	x	3/4	x 1 1/2	=		28 Cft.
"	1	x	30.375	x	3/4	x 1 1/2	=		34 Cft.
"	1	x	16.375	x	3/4	x 1 1/2	=		18 Cft.
"	1	x	57.5	x	3/4	x 1 1/2	=		65 Cft.
Building Walls Sill level to roof level									
Dilapidated O.T building	2	x	16.83	x	1 1/8	x 8	=		303 Cft.
"	2	x	21.5	x	1 1/8	x 8	=		387 Cft.
"	2	x	24.5	x	1 1/8	x 8	=		441 Cft.
"	2	x	17	x	1 1/8	x 8	=		306 Cft.
"	2	x	7.375	x	1 1/8	x 8	=		133 Cft.
"	2	x	35.625	x	1 1/8	x 8	=		641 Cft.
"	2	x	7.75	x	1 1/8	x 8	=		140 Cft.
"	2	x	9.875	x	1 1/8	x 8	=		178 Cft.
"	2	x	30.33	x	1 1/8	x 8	=		546 Cft.
"	2	x	26	x	1 1/8	x 8	=		468 Cft.
"	4	x	11.667	x	1 1/8	x 8	=		420 Cft.
"	1	x	85.25	x	1 1/8	x 8	=		767 Cft.
Corridor	2	x	30.25	x	1 1/8	x 8	=		545 Cft.
Main Building	1	x	162.5	x	1 1/8	x 8	=		1463 Cft.
"	2	x	48.25	x	1 1/8	x 8	=		869 Cft.

"	2	x	12.375	x	1 1/8	x	8	= 223 Cft.
"	2	x	12.375	x	3/4	x	8	= 149 Cft.
"	2	x	5.25	x	3/8	x	7 1/2	= 30 Cft.
"	2	x	53.875	x	1 1/8	x	8	= 970 Cft.
"	2	x	12.375	x	1 1/8	x	8	= 223 Cft.
"	2	x	12.375	x	3/4	x	8	= 149 Cft.
"	2	x	5.25	x	3/8	x	7 1/2	= 30 Cft.
"	1	x	12.375	x	3/8	x	8	= 37 Cft.
"	1	x	55	x	1 1/8	x	8	= 495 Cft.
Main Building Corridor	4	x	56.5	x	1 1/8	x	8	= 2034 Cft.
Male/Dialisis room	2	x	20	x	1 1/8	x	8	= 360 Cft.
"	2	x	20	x	1 1/8	x	8	= 360 Cft.
"	2	x	20	x	1 1/8	x	8	= 360 Cft.
"	2	x	7.33	x	1 1/8	x	8	= 132 Cft.
Office	2	x	12.667	x	1 1/8	x	8	= 228 Cft.
"	2	x	11.5	x	3/4	x	8	= 138 Cft.
"	2	x	6	x	3/8	x	8	= 36 Cft.
Private Room	2	x	20	x	1 1/8	x	8	= 360 Cft.
"	1	x	20	x	3/4	x	8	= 120 Cft.
"	1	x	133.25	x	1 1/8	x	8	= 1199 Cft.
"	2	x	21.25	x	1 1/8	x	8	= 383 Cft.
"	2	x	11.5	x	1 1/8	x	8	= 207 Cft.
"	2	x	11.5	x	3/4	x	8	= 138 Cft.
"	2	x	7.33	x	1 1/8	x	8	= 132 Cft.
"	2	x	6	x	3/8	x	8	= 36 Cft.
"	1	x	4	x	1 1/8	x	8	= 36 Cft.
"	1	x	7.58	x	1 1/8	x	8	= 68 Cft.
"	1	x	135.5	x	1 1/8	x	8	= 1220 Cft.
							Total:	**18544 Cft.**

Deductions.

D-2	3	x	6.75	x	1 1/8	x	5 1/2	=	125 Cft.
D-3	15	x	3.5	x	1 1/8	x	5 1/2	=	325 Cft.
D-4	15	x	2.5	x	3/8	x	4	=	56 Cft.
W-1	8	x	3	x	1 1/8	x	5	=	135 Cft.
W-2	2	x	3.667	x	1 1/8	x	5	=	41 Cft.
W-3	44	x	4	x	1 1/8	x	5	=	990 Cft.
W-4	1	x	4	x	1 1/8	x	5	=	23 Cft.
W-5	14	x	6	x	1 1/8	x	4	=	378 Cft.
W-6	1	x	7.33	x	1 1/8	x	6	=	49 Cft.
W-7	2	x	7.33	x	1 1/8	x	6	=	99 Cft.
Lintels									
D-2	3	x	8.25	x	1 1/8	x	3/4	=	21 Cft.
D-3	15	x	4.5	x	1 1/8	x	1/2	=	38 Cft.
D-4	15	x	3.5	x	3/8	x	1/2	=	10 Cft.
W-1	8	x	4	x	1 1/8	x	1/2	=	18 Cft.
W-2	2	x	4.667	x	1 1/8	x	1/2	=	5 Cft.
W-3	44	x	5	x	1 1/8	x	1/2	=	124 Cft.
W-4	1	x	5	x	1 1/8	x	1/2	=	3 Cft.
W-5	14	x	7	x	1 1/8	x	1/2	=	55 Cft.
W-6	1	x	8.83	x	1 1/8	x	3/4	=	7 Cft.
W-7	2	x	8.83	x	1 1/8	x	3/4	=	15 Cft.
						Total:	=	**2517 Cft.**	-2517 Cft
							Net Total:		**16027 Cft.**
							@	3366.00 % Cft.	Rs.539469/-

3 Dismantling cement concrete reinforcement separating reinforcement from concrete, cleaning and straightening the same

Operation Theater	1	x	87.5	x	35 3/4	x	0.42	=	1314 Cft
	2	x	10	x	1 1/2	x	0.42	=	13 Cft
	1	x	70.5	x	5 3/4	x	0.42	=	170 Cft
	1	x	19	x	4 1/2	x	0.42	=	36 Cft
Connecting Corridor	1	x	9.5	x	30 1/4	x	0.42	=	121 Cft
Main Building	1	x	162.5	x	60 1/8	x	0.42	=	4104 Cft
Staff Portion	1	x	86.625	x	26 5/8	x	0.42	=	969 Cft
	1	x	57.5	x	17 7/8	x	0.42	=	432 Cft

Beam									
O.T	4	x	17.705	x	1	x	1.25	=	89 Cft
Receiption	3	x	21.875	x	1	x	1.25	=	82 Cft
Male Ward	4	x	21.875	x	1	x	1.25	=	109 Cft
Dialysis Room	2	x	21.875	x	1	x	1.25	=	55 Cft
Fe-male Ward	4	x	21.875	x	1	x	1.25	=	109 Cft
Male Ward	2	x	21.875	x	1	x	1.25	=	55 Cft
Corridor	4	x	8.75	x	1	x	0.75	=	26 Cft
Corridor	2	x	25.625	x	1	x	1	=	51 Cft
Lintels									
D-2	3	x	8.25	x	1 1/8	x	3/4	=	21 Cft.
D-3	15	x	4.5	x	1 1/8	x	1/2	=	38 Cft.
D-4	15	x	3.5	x	3/8	x	1/2	=	10 Cft.
W-1	8	x	4	x	1 1/8	x	1/2	=	18 Cft.
W-2	2	x	4.667	x	1 1/8	x	1/2	=	5 Cft.
W-3	44	x	5	x	1 1/8	x	1/2	=	124 Cft.
W-4	1	x	5	x	1 1/8	x	1/2	=	3 Cft.
W-5	14	x	7	x	1 1/8	x	1/2	=	55 Cft.
W-6	1	x	8.83	x	1 1/8	x	3/4	=	7 Cft.
W-7	2	x	8.83	x	1 1/8	x	3/4	=	15 Cft.

Total: **8031 Cft**

@ 18342.70 % Cft. Rs.1473102/-

4 Dismantling glazed or encaustic tiles, etc.

O.T								
Toilet	2	x	7.75	x	8 3/4	=	136 Sft.	
Main Building (A)								
Lav.01	2	x	12.75	x	7 3/8	=	188 Sft.	
Bath room	4	x	4	x	5 1/4	=	84 Sft.	
Bath room	2	x	3.75	x	5 1/4	=	39 Sft.	
Toilet	4	x	6	x	5 5/8	=	135 Sft.	
Lav.02	2	x	12.75	x	5	=	128 Sft.	
Bath room	4	x	4	x	5 1/4	=	84 Sft.	
Bath room	2	x	3.75	x	5 1/4	=	39 Sft.	
Toilet	4	x	6	x	5 5/8	=	135 Sft.	
Main BuildingStaff Portion								
Lav.	1	x	11.75	x	5 5/8	=	66 Sft.	
Bath room	1	x	5	x	5	=	25 Sft.	
Bath room	1	x	3.25	x	5	=	16 Sft.	
Bath room	1	x	4	x	5 3/4	=	23 Sft.	
Toilet	1	x	7.875	x	6 5/8	=	52 Sft.	
Openings								
D-0	2	x	2	x	3/4	=	3.00 Sft.	
D-2	5	x	3	x	3/4	=	11 Sft.	
Dado/Skirting								
O.T								
Toilet	2 x	2 x(	7.75	+	8 3/4	)x 4	=	264 Sft.
Main Building (A)								
Lav.01	2 x	2 x(	12.75	+	7 3/8	)x 4	=	322 Sft.
Bath room	4 x	2 x(	4	+	5 1/4	)x 4	=	296 Sft.
Bath room	2 x	2 x(	3.75	+	5 1/4	)x 4	=	144 Sft.
Toilet	4 x	2 x(	6	+	5 5/8	)x 4	=	372 Sft.
Lav.02	2 x	2 x(	12.75	+	5	)x 4	=	284 Sft.
Bath room	4 x	2 x(	4	+	5 1/4	)x 4	=	296 Sft.
Bath room	2 x	2 x(	3.75	+	5 1/4	)x 4	=	144 Sft.
Toilet	4 x	2 x(	6	+	5 5/8	)x 4	=	372 Sft.
Main BuildingStaff Portion								
Lav.	1 x	2 x(	11.75	+	5 5/8	)x 4	=	139 Sft.
Bath room	1 x	2 x(	5	+	5	)x 4	=	80 Sft.
Bath room	1 x	2 x(	3.25	+	5	)x 4	=	66 Sft.
Bath room	1 x	2 x(	4	+	5 3/4	)x 4	=	78 Sft.
Toilet	1 x	2 x(	7.875	+	6 5/8	)x 4	=	116 Sft.

Total: 2973 ~~4137 Sft.~~ 7110

@ 2391.85 % Sft. Rs.~~98951/-~~

5 Dismantling cement concrete 1:2:4 plain.

O.T								
Sterilizing room	1	x	16.875	x	9 3/8	x 1/8	=	20 Cft.
Office	1	x	16.875	x	9 7/8	x 1/8	=	21 Cft.
O.T	2	x	24.625	x	15 7/8	x 1/8	=	98 Cft.
Scrub Up	2	x	7.375	x	10 7/8	x 1/8	=	20 Cft.
Gyne O.T	1	x	15	x	11 5/8	x 1/8	=	22 Cft.
Eye O.T	1	x	15	x	11 5/8	x 1/8	=	22 Cft.
Store	2	x	8.875	x	11 5/8	x 1/8	=	26 Cft.
Reception.	1	x	33	x	12 3/4	x 1/8	=	53 Cft.
Toilet	2	x	7.75	x	8 3/4	x 1/8	=	17 Cft.
Corridor	1	x	67.5	x	7 1/4	x 1/8	=	61 Cft.
Connecting Corridor	1	x	7.25	x	30 1/4	x 1/8	=	27 Cft.
Openings								
O.T								
D-1	2	x	2.5	x	1 1/8	x 1/8	=	1 Cft.
D-2	8	x	3	x	1 1/8	x 1/8	=	3 Cft.
D-3	9	x	3.5	x	1 1/8	x 1/8	=	4 Cft.
D-4	2	x	4	x	1 1/8	x 1/8	=	1 Cft.
D-5	1	x	6.75	x	1 1/8	x 1/8	=	1 Cft.
Openings	1	x	33	x	1 1/8	x 1/8	=	5 Cft.
Main Building (A)								
Lav.01	2	x	12.75	x	7 3/8	x 1/8	=	24 Cft.
Bath room	4	x	4	x	5 1/4	x 1/8	=	11 Cft.
Bath room	2	x	3.75	x	5 1/4	x 1/8	=	5 Cft.
Male Ward	2	x	40.75	x	20	x 1/8	=	204 Cft.
Toilet	4	x	6	x	5 5/8	x 1/8	=	17 Cft.
Office	2	x	13.375	x	11 5/8	x 1/8	=	39 Cft.
Private/Isolation room	2	x	11.625	x	7 3/8	x 1/8	=	21 Cft.
Corridor	1	x	133.25	x	7 1/4	x 1/8	=	121 Cft.
Corridor	2	x	24.25	x	8 1/2	x 1/8	=	52 Cft.
Corridor	2	x	7.25	x	12 3/4	x 1/8	=	23 Cft.
O.T.S	2	x	12.75	x	20 1/2	x 1/8	=	65 Cft.
O.T.S	2	x	12.75	x	20 1/2	x 1/8	=	65 Cft.
Lav.02	2	x	12.75	x	5	x 1/8	=	16 Cft.
Bath room	4	x	4	x	5 1/4	x 1/8	=	11 Cft.
Bath room	2	x	3.75	x	5 1/4	x 1/8	=	5 Cft.
Male Ward	1	x	15.5	x	20	x 1/8	=	39 Cft.
Male Ward	1	x	24.5	x	20	x 1/8	=	61 Cft.
Female ward	1	x	40.75	x	20	x 1/8	=	102 Cft.
Private room	2	x	11.625	x	7 3/8	x 1/8	=	21 Cft.
Toilet	4	x	6	x	5 5/8	x 1/8	=	17 Cft.
Private room	2	x	13.375	x	11 5/8	x 1/8	=	39 Cft.
Store	1	x	12.75	x	6 3/8	x 1/8	=	10 Cft.
Front Corridor	1	x	134.375	x	7 1/4	x 1/8	=	122 Cft.
Openings								
D-0	12	x	2	x	3/4	x 1/8	=	2 Cft.
D-1	9	x	2.5	x	3/4	x 1/8	=	2 Cft.
D-2	6	x	3	x	1 1/8	x 1/8	=	3 Cft.
D-3	8	x	3.5	x	1 1/8	x 1/8	=	4 Cft.
D-4	13	x	4	x	1 1/8	x 1/8	=	7 Cft.
D-5	4	x	6.75	x	1 1/8	x 1/8	=	4 Cft.
Openings	2	x	7.25	x	1 1/8	x 1/8	=	2 Cft.
Openings	2	x	20.5	x	1 1/8	x 1/8	=	6 Cft.
Main BuildingStaff Portion								
surgen room	1	x	11.75	x	16	x 1/8	=	24 Cft.
Toilet	1	x	7.875	x	6 5/8	x 1/8	=	7 Cft.
Exam	1	x	7.875	x	9	x 1/8	=	9 Cft.
M.S Office	1	x	16	x	16	x 1/8	=	32 Cft.
Medicine store	1	x	19.625	x	16	x 1/8	=	39 Cft.
Clerk Room	1	x	12	x	16	x 1/8	=	24 Cft.
Store	1	x	11.75	x	12	x 1/8	=	18 Cft.
Lav.	1	x	11.75	x	5 5/8	x 1/8	=	8 Cft.
Bath room	1	x	5	x	5	x 1/8	=	3 Cft.
Bath room	1	x	3.25	x	5	x 1/8	=	2 Cft.
Bath room	1	x	4	x	5 3/4	x 1/8	=	3 Cft.
Corridor	1	x	72.75	x	7 1/4	x 1/8	=	66 Cft.

Gastro Counter	1 x	11.75	x	16	x	1/8	=	24 Cft.
Dental surgen	1 x	16.375	x	16	x	1/8	=	33 Cft.
Exam	1 x	7.875	x	9	x	1/8	=	9 Cft.
Toilet	1 x	7.875	x	6 5/8	x	1/8	=	7 Cft.
Store	1 x	16	x	16	x	1/8	=	32 Cft.
Openings								
D-0	2 x	2	x	3/4	x	1/8	=	0.38 Cft.
D-2	5 x	3	x	3/4	x	1/8	=	1 Cft.
D-3	4 x	3.5	x	1 1/8	x	1/8	=	2 Cft.
D-4	4 x	4	x	1 1/8	x	1/8	=	2 Cft.
D-5	1 x	6.75	x	1 1/8	x	1/8	=	1 Cft.
Openings	1 x	7.25	x	1 1/8	x	1/8	=	1 Cft.
Plinth Protection								
O.T	2 x	27.25	x	4	x	1/8	=	27 Cft.
"	2 x	4.5	x	4	x	1/8	=	5 Cft.
"	1 x	19.125	x	4	x	1/8	=	10 Cft.
"	2 x	9.25	x	4	x	1/8	=	9 Cft.
"	2 x	5	x	4	x	1/8	=	5 Cft.
"	2 x	35.625	x	4	x	1/8	=	36 Cft.
"	2 x	11.5	x	4	x	1/8	=	12 Cft.
"	2 x	30.5	x	4	x	1/8	=	31 Cft.
Corridor	2 x	30.25	x	4	x	1/8	=	30 Cft.
Main Building	2 x	77.25	x	4	x	1/8	=	77 Cft.
"	1 x	56.125	x	4	x	1/8	=	28 Cft.
"	1 x	49.375	x	4	x	1/8	=	25 Cft.
"	2 x	14.25	x	4	x	1/8	=	14 Cft.
"	1 x	4	x	4	x	1/8	=	2 Cft.
"	1 x	10.75	x	4	x	1/8	=	5 Cft.
"	2 x	64.375	x	4	x	1/8	=	64 Cft.
Staff Portion	1 x	85.5	x	4	x	1/8	=	43 Cft.
"	1 x	26.625	x	4	x	1/8	=	13 Cft.
"	1 x	30.375	x	4	x	1/8	=	15 Cft.
"	1 x	17.125	x	4	x	1/8	=	9 Cft.
"	1 x	57.5	x	4	x	1/8	=	29 Cft.
Emergency	2 x	139.25	x	4	x	1/8	=	139 Cft.
"	2 x	79.75	x	4	x	1/8	=	80 Cft.

Total: **2577 Cft.**

@ 11209.45 % Cft. Rs.238868/-

6 Removing cement or lime plaster.

O.T								
Sterilizing room	1 x	2 x(	16.875	+	9 3/8	)x	12	= 630 Sft.
Office	1 x	2 x(	16.875	+	9 7/8	)x	12	= 642 Sft.
O.T	2 x	2 x(	24.625	+	15 7/8	)x	12	= 1944 Sft.
Scrub Up	2 x	2 x(	7.375	+	10 7/8	)x	12	= 876 Sft.
Gyne O.T	1 x	2 x(	15	+	11 5/8	)x	12	= 639 Sft.
Eye O.T	1 x	2 x(	15	+	11 5/8	)x	12	= 639 Sft.
Store	2 x	2 x(	8.875	+	11 5/8	)x	12	= 984 Sft.
Reception.	1 x	2 x(	33	+	12 3/4	)x	12	= 1098 Sft.
Toilet	2 x	2 x(	7.75	+	8 3/4	)x	12	= 792 Sft.
Corridor	1 x	2 x(	67.5	+	7 1/4	)x	12	= 1794 Sft.
Connecting Corridor	1 x	2 x(	7.25	+	30 1/4	)x	12	= 900 Sft.
Main Building (A)								
Lav.01	2 x	2 x(	12.75	+	7 3/8	)x	12	= 966 Sft.
Bath room	4 x	2 x(	4	+	5 1/4	)x	12	= 888 Sft.
Bath room	2 x	2 x(	3.75	+	5 1/4	)x	12	= 432 Sft.
Male Ward	2 x	2 x(	40.75	+	20	)x	12	= 2916 Sft.
Toilet	4 x	2 x(	6	+	5 5/8	)x	12	= 1116 Sft.
Office	2 x	2 x(	13.375	+	11 5/8	)x	12	= 1200 Sft.
Private/Isolation room	2 x	2 x(	11.625	+	7 3/8	)x	12	= 912 Sft.
Corridor	1 x	2 x(	133.25	+	7 1/4	)x	12	= 3372 Sft.
Corridor	2 x	2 x(	24.25	+	8 1/2	)x	12	= 1572 Sft.
Corridor	2 x	2 x(	7.25	+	12 3/4	)x	12	= 960 Sft.
O.T.S	2 x	2 x(	12.75	+	20 1/2	)x	12	= 1596 Sft.
O.T.S	2 x	2 x(	12.75	+	20 1/2	)x	12	= 1596 Sft.
Lav.02	2 x	2 x(	12.75	+	5	)x	12	= 852 Sft.
Bath room	4 x	2 x(	4	+	5 1/4	)x	12	= 888 Sft.
Bath room	2 x	2 x(	3.75	+	5 1/4	)x	12	= 432 Sft.

Male Ward	1 x	2 x(	15.5	+	20	)x	12	=	852 Sft.
Male Ward	1 x	2 x(	24.5	+	20	)x	12	=	1068 Sft.
Female ward	1 x	2 x(	40.75	+	20	)x	12	=	1458 Sft.
Private room	2 x	2 x(	11.625	+	7 3/8	)x	12	=	912 Sft.
Toilet	4 x	2 x(	6	+	5 5/8	)x	12	=	1116 Sft.
Private room	2 x	2 x(	13.375	+	11 5/8	)x	12	=	1200 Sft.
Store	1 x	2 x(	12.75	+	6 3/8	)x	12	=	459 Sft.
Front Corridor	1 x	2 x(	134.375	+	7 1/4	)x	12	=	3399 Sft.
Main BuildingStaff Portion									
surgen room	1 x	2 x(	11.75	+	16	)x	12	=	666 Sft.
Toilet	1 x	2 x(	7.875	+	6 5/8	)x	12	=	348 Sft.
Exam	1 x	2 x(	7.875	+	9	)x	12	=	405 Sft.
M.S Office	1 x	2 x(	16	+	16	)x	12	=	768 Sft.
Medicine store	1 x	2 x(	19.625	+	16	)x	12	=	855 Sft.
Clerk Room	1 x	2 x(	12	+	16	)x	12	=	672 Sft.
Store	1 x	2 x(	11.75	+	12	)x	12	=	570 Sft.
Lav.	1 x	2 x(	11.75	+	5 5/8	)x	12	=	417 Sft.
Bath room	1 x	2 x(	5	+	5	)x	12	=	240 Sft.
Bath room	1 x	2 x(	3.25	+	5	)x	12	=	198 Sft.
Bath room	1 x	2 x(	4	+	5 3/4	)x	12	=	234 Sft.
Corridor	1 x	2 x(	72.75	+	7 1/4	)x	12	=	1920 Sft.
Gastro Counter	1 x	2 x(	11.75	+	16	)x	12	=	666 Sft.
Dental surgen	1 x	2 x(	16.375	+	16	)x	12	=	777 Sft.
Exam	1 x	2 x(	7.875	+	9	)x	12	=	405 Sft.
Toilet	1 x	2 x(	7.875	+	6 5/8	)x	12	=	348 Sft.
Store	1 x	2 x(	16	+	16	)x	12	=	768 Sft.
							Total:		**51357 Sft.**

Deductions

O.T

Openings

O.T						
D-1	2 x	2.5	x	7	=	35 Sft.
D-2	8 x	3	x	7	=	168 Sft.
D-3	9 x	3.5	x	7	=	221 Sft.
D-4	2 x	4	x	8 1/2	=	68 Sft.
D-5	1 x	6.75	x	8 1/2	=	57 Sft.
Openings	1 x	33	x	8 1/2	=	281 Sft.
Main Building (A)						
O.T.S	2 x	20.5	x	12	=	492 Sft.
O.T.S	2 x	20.5	x	12	=	492 Sft.
Openings						
D-0	12 x	2	x	7	=	168 Sft.
D-1	9 x	2.5	x	7	=	158 Sft.
D-2	6 x	3	x	7	=	126 Sft.
D-3	8 x	3.5	x	7	=	196 Sft.
D-4	13 x	4	x	8 1/2	=	442 Sft.
D-5	4 x	6.75	x	8 1/2	=	230 Sft.
Openings	2 x	7.25	x	8 1/2	=	123 Sft.
Openings	2 x	20.5	x	8 1/2	=	349 Sft.
W-3	39 x	4	x	5	=	780 Sft.
Main BuildingStaff Portion						
Openings						
D-0	2 x	2	x	7	=	28.00 Sft.
D-2	5 x	3	x	7	=	105 Sft.
D-3	4 x	3.5	x	7	=	98 Sft.
D-4	4 x	4	x	8 1/2	=	136 Sft.
D-5	1 x	6.75	x	8 1/2	=	57 Sft.
Openings	1 x	7.25	x	8 1/2	=	62 Sft.
				Total:	=	**4872 Sft.**

-4872 Sft.

Total: 46485 Sft.

@ 424.60 % Sft. Rs.197375/-

7 Removing Door with Chowkat.

O.T			
D-1	2	=	2 Nos.
D-2	8	=	8 Nos.
D-3	9	=	9 Nos.

Male Ward	1	x	(	15.5	+	20	)	= 36 Rft.
Male Ward	1	x	(	24.5	+	20	)	= 45 Rft.
Female ward	1	x	(	40.75	+	20	)	= 61 Rft.
Private room	2	x	(	11.625	+	7 3/8	)	= 38 Rft.
Toilet	4	x	(	6	+	5 5/8	)	= 47 Rft.
Private room	2	x	(	13.375	+	11 5/8	)	= 50 Rft.
Store	1	x	(	12.75	+	6 3/8	)	= 19 Rft.
Front Corridor	1	x	(	134.375	+	7 1/4	)	= 142 Rft.
Main BuildingStaff Portion								
surgen room	1	x	(	11.75	+	16	)	= 28 Rft.
Toilet	1	x	(	7.875	+	6 5/8	)	= 15 Rft.
Exam	1	x	(	7.875	+	9	)	= 17 Rft.
M.S Office	1	x	(	16	+	16	)	= 32 Rft.
Medicine store	1	x	(	19.625	+	16	)	= 36 Rft.
Clerk Room	1	x	(	12	+	16	)	= 28 Rft.
Store	1	x	(	11.75	+	12	)	= 24 Rft.
Lav.	1	x	(	11.75	+	5 5/8	)	= 17 Rft.
Bath room	1	x	(	5	+	5	)	= 10 Rft.
Bath room	1	x	(	3.25	+	5	)	= 8 Rft.
Bath room	1	x	(	4	+	5 3/4	)	= 10 Rft.
Corridor	1	x	(	72.75	+	7 1/4	)	= 80 Rft.
Gastro Counter	1	x	(	11.75	+	16	)	= 28 Rft.
Dental surgen	1	x	(	16.375	+	16	)	= 32 Rft.
Exam	1	x	(	7.875	+	9	)	= 17 Rft.
Toilet	1	x	(	7.875	+	6 5/8	)	= 15 Rft.
Store	1	x	(	16	+	16	)	= 32 Rft.

Total: **2149 Rft.**

@ 14.50 P.Rft Rs.31161/-

Total. 3055722 ~~3,280,938~~

Say. 3055700 ~~3,280,900~~

SUB ENGINEER

SUB DIVISIONAL OFFICER
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

COST OF OLD MATERIAL

1 Tasso	~~60~~ 70%		of item No.	1 =	46037 Sft		=	~~98059 Nos~~ 114022 Nos		
0.7 ~~0.6~~ x		46037 x	3.55				@	3500.00 %oNos	=	~~343,207~~ 400407/-
2 Bricks batts	~~40~~ 30%		of item No.	1 =	46037 Sft		=	~~2302 Cft~~ 1726 Cft		
0.3 ~~0.4~~ x		46037 x	0.125				@	3000.00 %Cft	=	~~69,060~~ 51780/-
3 Bricks	60 %		of item No.	2 =	18544 Cft		=	150206 Nos		
0.6 x		18544 x	13.50				@	5000.00 %oNos	=	751,030
4 Bricks batts	40 %		of item No.	2 =	18544 Cft		=	7418 Cft		
0.4 x		18544					@	4000.00 %Cft	=	296,720
5 **Steel**			of item No.	3 =	8031 Cft		=	6381 Kg		
		8031 x	1.75 x	0.454			@	150 P.Kg		957,150

4 Recovery of Wooden doors

O.T							
D-1	2	x	2.5	x 7	=	35 Sft.	
D-2	8	x	3	x 7	=	168 Sft.	
D-3	9	x	3.5	x 7	=	221 Sft.	
D-4	2	x	4	x 8 1/2	=	68 Sft.	
D-5	1	x	6.75	x 8 1/2	=	57 Sft.	
Main Building (A)							
D-0	12	x	2	x 7	=	168 Sft.	
D-1	9	x	2.5	x 7	=	158 Sft.	
D-2	6	x	3	x 7	=	126 Sft.	
D-3	8	x	3.5	x 7	=	196 Sft.	
D-4	13	x	4	x 8 1/2	=	442 Sft.	
D-5	4	x	6.75	x 8 1/2	=	230 Sft.	
Main BuildingStaff Portion							
D-0	2	x	2	x 7	=	28 Sft.	
D-2	5	x	3	x 7	=	105 Sft.	
D-3	4	x	3.5	x 7	=	98 Sft.	
D-4	4	x	4	x 8 1/2	=	136 Sft.	
D-5	1	x	6.75	x 8 1/2	=	57 Sft.	
				Total:-	=	**2293 Sft.**	
					@	700 P.Sft	1,605,100

4 Recovery of Windows

O.T									
W-1	8	x	3	x	1	x 5	=	120 Sft.	
W-5	12	x	6	x	1	x 4	=	288 Sft.	
W-6	1	x	7.375	x	1	x 6	=	44 Sft.	
W-7	2	x	16	x	1	x 6	=	192 Sft.	
Main Building (A)									
W-3	39	x	4	x	1	x 5	=	780 Sft.	
Main BuildingStaff Portion									
W-2	10	x	3.667	x	1	x 5	=	183 Sft.	
						Total:-	=	**1607 Sft.**	
							@	550 P.Sft	883,850

6 Recovery of C.I Pipe 4" dia with specials and hooks

70	x	16		=	1120 Rft	
			Total:		**1120 Rft**	
				@	350 P.Rft	392,000

7 Recovery of existing main Board i/c Main panel, DBS and Breakers

4	=	4 Nos.		
Total:		**4 Nos.**		
	@	50000 Each		200,000

8 Recovery of PVC pipes or conduit wiring, etc. of all sizes including making good damaged surface (building portion) on surface

Item No. 9	2149	=	2149 Rft		
Total:		**2149 Rft**			
	@	15 P.Rft			32,235

9 Recovery of copper conductor cables single core all sizes

i	**3/0.029"**						
	Item No.	9	2149 x	3	=	6447 Rft	
				Total:		**6447 Rft**	
					@	15 P.Rft	96,705
ii	**7/0.029"**						
	Item No.	9	2149 x	2	=	4298 Rft	
				Total:		**4298 Rft**	
					@	25 P.Rft	107,450
iii	**7/0.036"**						
			2700		=	2700 Rft	
				Total:		**2700 Rft**	
					@	30 P.Rft	81,000
iv	**7/0.044"**						
			8000		=	8000 Rft	
				Total:		**8000 Rft**	
					@	45 P.Rft	360,000
V	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable						
	25 mm (19/0.052")		150		=	150 Rft	
				Total:		**150 Rft**	
					@	1000 P.Rft	150,000

Total Rs. ~~6,325,807~~ 6365427/—

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

1 Rehandling of earthwork Upto a lead of 50 ft. (15 m)

Operation Theater	1	x	86	x	34 1/4	x	1/3	=	972	Cft
	2	x	8.5	x	3/4	x	1/3	=	4	Cft
	1	x	70.5	x	5	x	1/3	=	116	Cft
	1	x	17.5	x	4 1/2	x	1/3	=	26	Cft
Connecting Corridor	1	x	8	x	31 3/4	x	1/3	=	84	Cft
Main Building	1	x	161	x	58 5/8	x	1/3	=	3115	Cft
Staff Portion	1	x	85.875	x	25 1/8	x	1/3	=	712	Cft
	1	x	56	x	17 1/8	x	1/3	=	316	Cft
Emergency	1	x	129.5	x	78 1/4	x	1/3	=	3344	Cft
Main Building	1	x	50.125	x	16 3/8	x	1/3	=	271	Cft
	1	x	33.125	x	60 1/8	x	1/3	=	657	Cft
	1	x	100.25	x	25 1/8	x	1/3	=	831	Cft
	1	x	78.75	x	17 1/8	x	1/3	=	445	Cft
Wards (B)	1	x	130.125	x	50 1/4	x	1/3	=	2158	Cft
	1	x	112.5	x	9	x	1/3	=	334	Cft
Labs	1	x	136.125	x	41 1/2	x	1/3	=	1864	Cft
Connecting corridor	1	x	13.5	x	7 1/2	x	1/3	=	33	Cft
					Total:				**15282**	**Cft.**
								@	3566.65 %0Cft.	54,506

2 Providing and laying 1½" thick (40 mm) damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :-
(a) with one coat bitumen and one coat polythene sheet 500gauge

Up raising of Existing building

Dilapidated O.T building	2	x	16.83	x	1 1/8	=	38	Sft.
"	2	x	21.5	x	1 1/8	=	48	Sft.
"	2	x	24.5	x	1 1/8	=	55	Sft.
"	2	x	17	x	1 1/8	=	38	Sft.
"	2	x	7.375	x	1 1/8	=	17	Sft.
"	2	x	35.625	x	1 1/8	=	80	Sft.
"	2	x	7.75	x	1 1/8	=	17	Sft.
"	2	x	9.875	x	1 1/8	=	22	Sft.
"	2	x	30.33	x	1 1/8	=	68	Sft.
"	2	x	26	x	1 1/8	=	59	Sft.
"	4	x	11.667	x	1 1/8	=	53	Sft.
"	1	x	85.25	x	1 1/8	=	96	Sft.
Corridor	2	x	30.25	x	1 1/8	=	68	Sft.
Main Building	1	x	162.5	x	1 1/8	=	183	Sft.
"	2	x	48.25	x	1 1/8	=	109	Sft.
"	2	x	12.375	x	1 1/8	=	28	Sft.
"	2	x	12.375	x	3/4	=	19	Sft.
"	2	x	53.875	x	1 1/8	=	121	Sft.
"	2	x	12.375	x	1 1/8	=	28	Sft.
"	2	x	12.375	x	3/4	=	19	Sft.
"	1	x	12.375	x	3/8	=	5	Sft.
"	1	x	55	x	1 1/8	=	62	Sft.
Main Building Corridor	4	x	56.5	x	1 1/8	=	254	Sft.
Male/Dialisis room	2	x	20	x	1 1/8	=	45	Sft.
"	2	x	20	x	1 1/8	=	45	Sft.
"	2	x	20	x	1 1/8	=	45	Sft.
"	2	x	7.33	x	1 1/8	=	16	Sft.
Office	2	x	12.667	x	1 1/8	=	29	Sft.
"	2	x	11.5	x	3/4	=	17	Sft.
"	2	x	6	x	3/8	=	5	Sft.
Private Room	2	x	20	x	1 1/8	=	45	Sft.
"	1	x	20	x	3/4	=	15	Sft.
"	1	x	133.25	x	1 1/8	=	150	Sft.
"	2	x	21.25	x	1 1/8	=	48	Sft.
"	2	x	11.5	x	1 1/8	=	26	Sft.

"			2	x	11.5	x	3/4	=	17 Sft.
"			2	x	7.33	x	1 1/8	=	16 Sft.
"			2	x	6	x	3/8	=	5 Sft.
"			1	x	4	x	1 1/8	=	5 Sft.
"			1	x	7.58	x	1 1/8	=	9 Sft.
"			1	x	135.5	x	1 1/8	=	152 Sft.
"			2	x	9.25	x	3/4	=	14 Sft.
"			2	x	4.25	x	3/4	=	6 Sft.
"			2	x	34.125	x	3/4	=	51 Sft.
							Total:		**2248 Sft.**

Deductions.

D-2	3	x	6.75	x	1 1/8	=	23 Sft.	
D-3	15	x	3.5	x	1 1/8	=	59 Sft.	
D-4	15	x	2.5	x	3/8	=	14 Sft.	
					Total:	=	**96 Sft.**	-96 Sft
					Total:			**2152 Sft.**
						@	8660.55 % Sft.	Rs.186375/-

3 Providing and laying ½ " thick (13 mm) vertical damp proof course with cement sand plaster Ratio 1:3 and bitumen coating:-

(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:

Dilapidated O.T building

O.T											
Sterilizing room	1	x	2	x(	16.875	+	9 3/8	)x	3	=	158 Sft.
Office	1	x	2	x(	16.875	+	9 7/8	)x	3	=	161 Sft.
O.T	2	x	2	x(	24.625	+	15 7/8	)x	3	=	486 Sft.
Gyne O.T	1	x	2	x(	15	+	11 5/8	)x	3	=	160 Sft.
Eye O.T	1	x	2	x(	15	+	11 5/8	)x	3	=	160 Sft.
Store	2	x	2	x(	8.875	+	11 5/8	)x	3	=	246 Sft.
Reception.	1	x	2	x(	33	+	12 3/4	)x	3	=	275 Sft.
Toilet	2	x	2	x(	7.75	+	8 3/4	)x	3	=	198 Sft.
Corridor	1	x	2	x(	67.5	+	7 1/4	)x	3	=	449 Sft.
Connecting Corridor	1	x	2	x(	7.25	+	30 1/4	)x	3	=	225 Sft.
Main Building (A)											
Male Ward	2	x	2	x(	40.75	+	20	)x	3	=	729 Sft.
Office	2	x	2	x(	13.375	+	11 5/8	)x	3	=	300 Sft.
Private/Isolation room	2	x	2	x(	11.625	+	7 3/8	)x	3	=	228 Sft.
Corridor	1	x	2	x(	133.25	+	7 1/4	)x	3	=	843 Sft.
Corridor	2	x	2	x(	24.25	+	8 1/2	)x	3	=	393 Sft.
Corridor	2	x	2	x(	7.25	+	12 3/4	)x	3	=	240 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	3	=	399 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	3	=	399 Sft.
Male Ward	1	x	2	x(	15.5	+	20	)x	3	=	213 Sft.
Male Ward	1	x	2	x(	24.5	+	20	)x	3	=	267 Sft.
Female ward	1	x	2	x(	40.75	+	20	)x	3	=	365 Sft.
Private room	2	x	2	x(	11.625	+	7 3/8	)x	3	=	228 Sft.
Private room	2	x	2	x(	13.375	+	11 5/8	)x	3	=	300 Sft.
Store	1	x	2	x(	12.75	+	6 3/8	)x	3	=	115 Sft.
Front Corridor	1	x	2	x(	134.375	+	7 1/4	)x	3	=	850 Sft.
Main BuildingStaff Portion											
surgen room	1	x	2	x(	11.75	+	16	)x	3	=	167 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	3	=	101 Sft.
M.S Office	1	x	2	x(	16	+	16	)x	3	=	192 Sft.
Medicine store	1	x	2	x(	19.625	+	16	)x	3	=	214 Sft.
Clerk Room	1	x	2	x(	12	+	16	)x	3	=	168 Sft.
Store	1	x	2	x(	11.75	+	12	)x	3	=	143 Sft.
Corridor	1	x	2	x(	72.75	+	7 1/4	)x	3	=	480 Sft.
Gastro Counter	1	x	2	x(	11.75	+	16	)x	3	=	167 Sft.
Dental surgen	1	x	2	x(	16.375	+	16	)x	3	=	194 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	3	=	101 Sft.
Store	1	x	2	x(	16	+	16	)x	3	=	192 Sft.
									Total:		**10506 Sft.**
										@	5681.05 % Sft. Rs.596851/-

4 Pacca brick work in ground floor cement, sand mortar Ratio 1:6

Building Walls Sill level to roof level								
Dilapidated O.T building	2	x	16.83	x	1 1/8	x 12	=	454 Cft.
"	2	x	21.5	x	1 1/8	x 12	=	581 Cft.
"	2	x	24.5	x	1 1/8	x 12	=	662 Cft.
"	2	x	17	x	1 1/8	x 12	=	459 Cft.
"	2	x	7.375	x	1 1/8	x 12	=	199 Cft.
"	2	x	35.625	x	1 1/8	x 12	=	962 Cft.
"	2	x	7.75	x	1 1/8	x 12	=	209 Cft.
"	2	x	9.875	x	1 1/8	x 12	=	267 Cft.
"	2	x	30.33	x	1 1/8	x 12	=	819 Cft.
"	2	x	26	x	1 1/8	x 12	=	702 Cft.
"	4	x	11.667	x	1 1/8	x 12	=	630 Cft.
"	1	x	85.25	x	1 1/8	x 12	=	1151 Cft.
Corridor	2	x	30.25	x	1 1/8	x 12	=	817 Cft.
Main Building	1	x	162.5	x	1 1/8	x 12	=	2194 Cft.
"	2	x	48.25	x	1 1/8	x 12	=	1303 Cft.
"	2	x	12.375	x	1 1/8	x 12	=	334 Cft.
"	2	x	12.375	x	3/4	x 12	=	223 Cft.
"	2	x	53.875	x	1 1/8	x 12	=	1455 Cft.
"	2	x	12.375	x	1 1/8	x 12	=	334 Cft.
"	2	x	12.375	x	3/4	x 12	=	223 Cft.
"	1	x	12.375	x	3/8	x 12	=	56 Cft.
"	1	x	55	x	1 1/8	x 12	=	743 Cft.
Main Building Corridor	4	x	56.5	x	1 1/8	x 12	=	3051 Cft.
Male/Dialisis room	2	x	20	x	1 1/8	x 12	=	540 Cft.
"	2	x	20	x	1 1/8	x 12	=	540 Cft.
"	2	x	20	x	1 1/8	x 12	=	540 Cft.
"	2	x	7.33	x	1 1/8	x 12	=	198 Cft.
Office	2	x	12.667	x	1 1/8	x 12	=	342 Cft.
"	2	x	11.5	x	3/4	x 12	=	207 Cft.
"	2	x	6	x	3/8	x 12	=	54 Cft.
Private Room	2	x	20	x	1 1/8	x 12	=	540 Cft.
"	1	x	20	x	3/4	x 12	=	180 Cft.
"	1	x	133.25	x	1 1/8	x 12	=	1799 Cft.
"	2	x	21.25	x	1 1/8	x 12	=	574 Cft.
"	2	x	11.5	x	1 1/8	x 12	=	311 Cft.
"	2	x	11.5	x	3/4	x 12	=	207 Cft.
"	2	x	7.33	x	1 1/8	x 12	=	198 Cft.
"	2	x	6	x	3/8	x 12	=	54 Cft.
"	1	x	4	x	1 1/8	x 12	=	54 Cft.
"	1	x	7.58	x	1 1/8	x 12	=	102 Cft.
"	1	x	135.5	x	1 1/8	x 12	=	1829 Cft.
"	2	x	9.25	x	3/4	x 12	=	167 Cft.
"	2	x	4.25	x	3/4	x 12	=	77 Cft.
"	2	x	34.125	x	3/4	x 12	=	614 Cft.
Building Parapet								
O.T	2	x	27.25	x	3/4	x 1 1/2	=	61 Cft.
"	2	x	3.75	x	3/4	x 1 1/2	=	8 Cft.
"	1	x	19.125	x	3/4	x 1 1/2	=	22 Cft.
"	2	x	9.25	x	3/4	x 1 1/2	=	21 Cft.
"	2	x	4.25	x	3/4	x 1 1/2	=	10 Cft.
"	2	x	34.125	x	3/4	x 1 1/2	=	77 Cft.
"	2	x	11.5	x	3/4	x 1 1/2	=	26 Cft.
"	2	x	30.5	x	3/4	x 1 1/2	=	69 Cft.
Corridor	2	x	30.25	x	3/4	x 1 1/2	=	68 Cft.
Main Building	2	x	77.25	x	3/4	x 1 1/2	=	174 Cft.
"	1	x	54.625	x	3/4	x 1 1/2	=	61 Cft.
"	1	x	47.875	x	3/4	x 1 1/2	=	54 Cft.
"	2	x	14.25	x	3/4	x 1 1/2	=	32 Cft.
"	1	x	3.25	x	3/4	x 1 1/2	=	4 Cft.
"	1	x	10	x	3/4	x 1 1/2	=	11 Cft.
"	2	x	64.375	x	3/4	x 1 1/2	=	145 Cft.
Staff Portion	1	x	85.5	x	3/4	x 1 1/2	=	96 Cft.
"	1	x	25.125	x	3/4	x 1 1/2	=	28 Cft.
"	1	x	30.375	x	3/4	x 1 1/2	=	34 Cft.
"	1	x	16.375	x	3/4	x 1 1/2	=	18 Cft.

"				1	x	57.5	x	3/4	x	1 1/2	=	65 Cft.
								Total:				**28039 Cft.**
Deductions.												
D-2	3	x	6.75	x	1 1/8	x	8 1/2	=	194 Cft.			
D-3	15	x	3.5	x	1 1/8	x	8 1/2	=	502 Cft.			
D-4	15	x	2.5	x	3/8	x	7	=	98 Cft.			
W-1	8	x	3	x	1 1/8	x	5	=	135 Cft.			
W-2	2	x	3.667	x	1 1/8	x	5	=	41 Cft.			
W-3	44	x	4	x	1 1/8	x	5	=	990 Cft.			
W-4	1	x	4	x	1 1/8	x	5	=	23 Cft.			
W-5	14	x	6	x	1 1/8	x	4	=	378 Cft.			
W-6	1	x	7.33	x	1 1/8	x	6	=	49 Cft.			
W-7	2	x	7.33	x	1 1/8	x	6	=	99 Cft.			
Lintels												
D-2	3	x	8.25	x	1 1/8	x	3/4	=	21 Cft.			
D-3	15	x	4.5	x	1 1/8	x	1/2	=	38 Cft.			
D-4	15	x	3.5	x	3/8	x	1/2	=	10 Cft.			
W-1	8	x	4	x	1 1/8	x	1/2	=	18 Cft.			
W-2	2	x	4.667	x	1 1/8	x	1/2	=	5 Cft.			
W-3	44	x	5	x	1 1/8	x	1/2	=	124 Cft.			
W-4	1	x	5	x	1 1/8	x	1/2	=	3 Cft.			
W-5	14	x	7	x	1 1/8	x	1/2	=	55 Cft.			
W-6	1	x	8.83	x	1 1/8	x	3/4	=	7 Cft.			
W-7	2	x	8.83	x	1 1/8	x	3/4	=	15 Cft.			
								Total:	=	**2805 Cft.**	-2805 Cft	
								Total:			**25234 Cft.**	
										@	30913.00 % Cft.	Rs.7800586/-

ii Pacca brick work in ground floor cement, sand mortar Ratio 1:4

Main Building											
"				2	x	5.25	x	3/8	x	7 1/2	=	30 Cft.
"				2	x	5.25	x	3/8	x	7 1/2	=	30 Cft.
								Total:				**60 Cft.**
Deductions.												
D-4	4	x	2.5	x	3/8	x	7	=	26 Cft.			
								Total:	=	**26 Cft.**	-26 Cft	
								Total:			**34 Cft.**	
										@	32585.80 % Cft.	Rs.11079/-

5 Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects Type C (nominal mix 1: 2: 4)

Lintels										
D-2	3	x	8.25	x	1 1/8	x	3/4	=	21 Cft.	
D-3	15	x	4.5	x	1 1/8	x	1/2	=	38 Cft.	
D-4	15	x	3.5	x	3/8	x	1/2	=	10 Cft.	
W-1	8	x	4	x	1 1/8	x	1/2	=	18 Cft.	
W-2	2	x	4.667	x	1 1/8	x	1/2	=	5 Cft.	
W-3	44	x	5	x	1 1/8	x	1/2	=	124 Cft.	
W-4	1	x	5	x	1 1/8	x	1/2	=	3 Cft.	
W-5	14	x	7	x	1 1/8	x	1/2	=	55 Cft.	
W-6	1	x	8.83	x	1 1/8	x	3/4	=	7 Cft.	
W-7	2	x	8.83	x	1 1/8	x	3/4	=	15 Cft.	
Slab										
Operation Theater	1	x	87.5	x	35 3/4	x	0.417	=	1304 Cft	
	2	x	10	x	1 1/2	x	0.417	=	13 Cft	
	1	x	70.5	x	5 3/4	x	0.417	=	169 Cft	
	1	x	19	x	4 1/2	x	0.417	=	36 Cft	
Connecting Corridor	1	x	9.5	x	30 1/4	x	0.417	=	120 Cft	
Main Building	1	x	162.5	x	60 1/8	x	0.417	=	4074 Cft	
Staff Portion	1	x	86.625	x	26 5/8	x	0.417	=	962 Cft	
	1	x	57.5	x	17 7/8	x	0.417	=	429 Cft	
Shelves	1	x	60	x	2	x	0.250	=	30 Cft	
Beam										
O.T	4	x	17.705	x	1	x	1.25	=	89 Cft	
Receiption	3	x	21.875	x	1	x	1.25	=	82 Cft	

Male Ward	4	x	21.875	x	1	x	1.25	=	109 Cft	
Dialysis Room	2	x	21.875	x	1	x	1.25	=	55 Cft	
Fe-male Ward	4	x	21.875	x	1	x	1.25	=	109 Cft	
Male Ward	2	x	21.875	x	1	x	1.25	=	55 Cft	
Corridor	4	x	8.75	x	1	x	0.75	=	26 Cft	
Corridor	4	x	26.375	x	1	x	2	=	211 Cft	
					Total:				**8169 Cft**	
								@	559.20 P.Cft.	Rs.4568105/-

ii Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects: Type C (nominal mix 1: 2: 4)

Bed Plates										
O.T	4	x	2	x	3	x	1 1/8	x 0.5	=	~~14~~ Cft
Receiption	3	x	2	x	3	x	1 1/8	x 0.5	=	~~10~~ Cft
Male Ward	4	x	2	x	3	x	1 1/8	x 0.5	=	~~14~~ Cft
Dialysis Room	2	x	2	x	3	x	1 1/8	x 0.5	=	~~7~~ Cft
Fe-male Ward	4	x	2	x	3	x	1 1/8	x 0.5	=	~~14~~ Cft
Male Ward	2	x	2	x	3	x	1 1/8	x 0.5	=	~~7~~ Cft
Corridor	4	x	2	x	3	x	1 1/8	x 0.5	=	~~14~~ Cft
Corridor	4	x	2	x	3	x	1 1/8	x 0.5	=	~~14~~ Cft
							Total:		63 ~~84~~ Cft	28983/-
								@	460.05 P.Cft.	Rs~~43245/-~~

6 Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) Deformed bars (Grade-40)

Item No.	5		8169	x 6.75	x 0.454	=	25034 Kgs	
Item No.	5	ii	63~~84~~	x 6.75	x 0.454	=	19~~288~~ Kgs	
					Total:		25227 ~~25322~~ Kgs	7934245/-
						@	31451.40 % Kgs.	~~7,964,124~~

7 Providing and applying 3mm thick 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

Operation Theater	1	x	86	x	34 1/4	=	2946 Sft	
	2	x	8.5	x	3/4	=	13 Sft	
	1	x	70.5	x	5	=	353 Sft	
	1	x	17.5	x	4 1/2	=	79 Sft	
Connecting Corridor	1	x	8	x	31 3/4	=	254 Sft	
Main Building	1	x	161	x	58 5/8	=	9439 Sft	
Staff Portion	1	x	85.875	x	25 1/8	=	2158 Sft	
	1	x	56	x	17 1/8	=	959 Sft	
Emergency	1	x	129.5	x	78 1/4	=	10133 Sft	
Main Building	1	x	50.125	x	16 3/8	=	821 Sft	
	1	x	33.125	x	60 1/8	=	1992 Sft	
	1	x	100.25	x	25 1/8	=	2519 Sft	
	1	x	78.75	x	17 1/8	=	1349 Sft	
Wards (B)	1	x	130.125	x	50 1/4	=	6539 Sft	
	1	x	112.5	x	9	=	1013 Sft	
Labs	1	x	136.125	x	41 1/2	=	5649 Sft	
Connecting corridor	1	x	13.5	x	7 1/2	=	101 Sft	
					Total:		**46317 Sft**	
						@	91.10 P.Sft.	4,219,479

8 Providing and Laying 1-1/2" thick 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, closed cell type structure) i/c cutting and placing in position. complete in all respect.

As Per Item No.	7	46317	=	46317 Sft.	
		Total:		**46317 Sft.**	

11) C.I water down pipe fixed in position excluding heads & shoes but i/c painting & clamps upto dia. C.I down pipe.

11A) Rain water down pipe C.I head fixed in place i/c cost of clamps & holdfast & painting & shoes, bands or offsets for C.I rain water pipe i/c fixing & painting

Deduction

Khurras	70 x	2 x	2 =	280 Sft		
			Total:- =	**280 Sft**	-280 Sft	
				Total:- =	**46037 Sft**	
				@	9462.20 % Sft.	4,356,113

9 Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with polythene sheet 300 gauge.

As Per Item No.	8	46317	=	46317 Sft.
		Total:		46317 Sft.

Deduction

Khurras	40 x	2 x	2 =	160 Sft		
			Total:- =	**160 Sft**	-160 Sft	
				Total:- =	**46157 Sft**	
				@	8008.00 % Sft.	3,696,253

10 Khuras on roof 2'x2'x3" (600 x 600 x 75 mm)

	40	=	40 Nos
		@	432.88 Each 17,315.

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) 4"(110 mm)

	40 x 16	=	640 Rft ✓	210080/—
		@ 328.25	~~217.40~~ P.Rft	~~139,136~~
11A	40 NOS.	@ 1373.05 each		54922/—

12 Cement plaster 3/8" (10 mm) thick under soffit of R.C.C.roof slabs only, upto 20' height. 1:3

O.T						
Sterilizing room	1 x	16.875	x	9 3/8	=	158 Sft.
Office	1 x	16.875	x	9 7/8	=	167 Sft.
O.T	2 x	24.625	x	15 7/8	=	782 Sft.
Scrub Up	2 x	7.375	x	10 7/8	=	160 Sft.
Gyne O.T	1 x	15	x	11 5/8	=	174 Sft.
Eye O.T	1 x	15	x	11 5/8	=	174 Sft.
Store	2 x	8.875	x	11 5/8	=	206 Sft.
Reception.	1 x	33	x	12 3/4	=	421 Sft.
Toilet	2 x	7.75	x	8 3/4	=	136 Sft.
Corridor	1 x	67.5	x	7 1/4	=	489 Sft.
Connecting Corridor	1 x	7.25	x	30 1/4	=	219 Sft.
Main Building (A)						
Lav.01	2 x	12.75	x	7 3/8	=	188 Sft.
Bath room	4 x	4	x	5 1/4	=	84 Sft.
Bath room	2 x	3.75	x	5 1/4	=	39 Sft.
Male Ward	2 x	40.75	x	20	=	1630 Sft.
Toilet	4 x	6	x	5 5/8	=	135 Sft.
Office	2 x	13.375	x	11 5/8	=	311 Sft.
Private/Isolation room	2 x	11.625	x	7 3/8	=	171 Sft.
Corridor	1 x	133.25	x	7 1/4	=	966 Sft.
Corridor	2 x	24.25	x	8 1/2	=	412 Sft.
Corridor	2 x	7.25	x	12 3/4	=	185 Sft.
O.T.S	2 x	12.75	x	20 1/2	=	523 Sft.
O.T.S	2 x	12.75	x	20 1/2	=	523 Sft.
Lav.02	2 x	12.75	x	5	=	128 Sft.
Bath room	4 x	4	x	5 1/4	=	84 Sft.
Bath room	2 x	3.75	x	5 1/4	=	39 Sft.
Male Ward	1 x	15.5	x	20	=	310 Sft.

Male Ward	1	x	24.5	x	20	=	490 Sft.
Female ward	1	x	40.75	x	20	=	815 Sft.
Private room	2	x	11.625	x	7 3/8	=	171 Sft.
Toilet	4	x	6	x	5 5/8	=	135 Sft.
Private room	2	x	13.375	x	11 5/8	=	311 Sft.
Store	1	x	12.75	x	6 3/8	=	81 Sft.
Front Corridor	1	x	134.375	x	7 1/4	=	974 Sft.
Main BuildingStaff Portion							
surgen room	1	x	11.75	x	16	=	188 Sft.
Toilet	1	x	7.875	x	6 5/8	=	52 Sft.
Exam	1	x	7.875	x	9	=	71 Sft.
M.S Office	1	x	16	x	16	=	256 Sft.
Medicine store	1	x	19.625	x	16	=	314 Sft.
Clerk Room	1	x	12	x	16	=	192 Sft.
Store	1	x	11.75	x	12	=	141 Sft.
Lav.	1	x	11.75	x	5 5/8	=	66 Sft.
Bath room	1	x	5	x	5	=	25 Sft.
Bath room	1	x	3.25	x	5	=	16 Sft.
Bath room	1	x	4	x	5 3/4	=	23 Sft.
Corridor	1	x	72.75	x	7 1/4	=	527 Sft.
Gastro Counter	1	x	11.75	x	16	=	188 Sft.
Dental surgen	1	x	16.375	x	16	=	262 Sft.
Exam	1	x	7.875	x	9	=	71 Sft.
Toilet	1	x	7.875	x	6 5/8	=	52 Sft.
Store	1	x	16	x	16	=	256 Sft.
Emergency							
O.T	1	x	20	x	20	=	400 Sft.
Doctor	1	x	14	x	12	=	168 Sft.
Change	1	x	8.875	x	6	=	53 Sft.
Duct	1	x	6.75	x	8 1/2	=	57 Sft.
W.C	1	x	4.75	x	6	=	29 Sft.

Total: **15998 Sft.**

@ 3762.55 %Sft 601,933

ii ½" (13 mm) thick Cement plaster 1:4 upto 20' (6.00 m) height

Outside Building

Building Parapet

O.T	2	x	27.25	x	2 1/4	=	123 Sft.
"	2	x	3.75	x	2 1/4	=	17 Sft.
"	1	x	19.125	x	2 1/4	=	43 Sft.
"	2	x	9.25	x	2 1/4	=	42 Sft.
"	2	x	4.25	x	2 1/4	=	19 Sft.
"	2	x	34.125	x	2 1/4	=	154 Sft.
"	2	x	11.5	x	2 1/4	=	52 Sft.
"	2	x	30.5	x	2 1/4	=	137 Sft.
Corridor	2	x	30.25	x	2 1/4	=	136 Sft.
Main Building	2	x	77.25	x	2 1/4	=	348 Sft.
"	1	x	54.625	x	2 1/4	=	123 Sft.
"	1	x	47.875	x	2 1/4	=	108 Sft.
"	2	x	14.25	x	2 1/4	=	64 Sft.
"	1	x	3.25	x	2 1/4	=	7 Sft.
"	1	x	10	x	2 1/4	=	23 Sft.
"	2	x	64.375	x	2 1/4	=	290 Sft.
Staff Portion	1	x	85.5	x	2 1/4	=	192 Sft.
"	1	x	25.125	x	2 1/4	=	57 Sft.
"	1	x	30.375	x	2 1/4	=	68 Sft.
"	1	x	16.375	x	2 1/4	=	37 Sft.
"	1	x	57.5	x	2 1/4	=	129 Sft.

Total:- = **2469 Sft.**

@ 3285.45 %Sft 81,118

iii ½" (13 mm) thick Cement plaster 1:5 upto 20' (6.00 m) height

Inside Building

O.T										
Sterilizing room	1	x	2	x(	16.875	+	9 3/8	)x	8	= 420 Sft.
Office	1	x	2	x(	16.875	+	9 7/8	)x	8	= 428 Sft.
O.T	2	x	2	x(	24.625	+	15 7/8	)x	8	= 1296 Sft.
Gyne O.T	1	x	2	x(	15	+	11 5/8	)x	8	= 426 Sft.
Eye O.T	1	x	2	x(	15	+	11 5/8	)x	8	= 426 Sft.
Store	2	x	2	x(	8.875	+	11 5/8	)x	8	= 656 Sft.
Reception.	1	x	2	x(	33	+	12 3/4	)x	8	= 732 Sft.
Toilet	2	x	2	x(	7.75	+	8 3/4	)x	8	= 528 Sft.
Corridor	1	x	2	x(	67.5	+	7 1/4	)x	8	= 1196 Sft.
Connecting Corridor	1	x	2	x(	7.25	+	30 1/4	)x	8	= 600 Sft.
Main Building (A)										
Male Ward	2	x	2	x(	40.75	+	20	)x	8	= 1944 Sft.
Office	2	x	2	x(	13.375	+	11 5/8	)x	8	= 800 Sft.
Private/Isolation room	2	x	2	x(	11.625	+	7 3/8	)x	8	= 608 Sft.
Corridor	1	x	2	x(	133.25	+	7 1/4	)x	8	= 2248 Sft.
Corridor	2	x	2	x(	24.25	+	8 1/2	)x	8	= 1048 Sft.
Corridor	2	x	2	x(	7.25	+	12 3/4	)x	8	= 640 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	8	= 1064 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	8	= 1064 Sft.
Male Ward	1	x	2	x(	15.5	+	20	)x	8	= 568 Sft.
Male Ward	1	x	2	x(	24.5	+	20	)x	8	= 712 Sft.
Female ward	1	x	2	x(	40.75	+	20	)x	8	= 972 Sft.
Private room	2	x	2	x(	11.625	+	7 3/8	)x	8	= 608 Sft.
Private room	2	x	2	x(	13.375	+	11 5/8	)x	8	= 800 Sft.
Store	1	x	2	x(	12.75	+	6 3/8	)x	8	= 306 Sft.
Front Corridor	1	x	2	x(	134.375	+	7 1/4	)x	8	= 2266 Sft.
Main BuildingStaff Portion										
surgen room	1	x	2	x(	11.75	+	16	)x	8	= 444 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	8	= 270 Sft.
M.S Office	1	x	2	x(	16	+	16	)x	8	= 512 Sft.
Medicine store	1	x	2	x(	19.625	+	16	)x	8	= 570 Sft.
Clerk Room	1	x	2	x(	12	+	16	)x	8	= 448 Sft.
Store	1	x	2	x(	11.75	+	12	)x	8	= 380 Sft.
Corridor	1	x	2	x(	72.75	+	7 1/4	)x	8	= 1280 Sft.
Gastro Counter	1	x	2	x(	11.75	+	16	)x	8	= 444 Sft.
Dental surgen	1	x	2	x(	16.375	+	16	)x	8	= 518 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	8	= 270 Sft.
Store	1	x	2	x(	16	+	16	)x	8	= 512 Sft.
Emergency										
O.T	1	x	2	x(	20	+	20	)x	8	= 640 Sft.
Doctor	1	x	2	x(	14	+	12	)x	8	= 416 Sft.
Change	1	x	2	x(	8.875	+	6	)x	8	= 238 Sft.
Duct	1	x	2	x(	6.75	+	8 1/2	)x	8	= 244 Sft.
W.C	1	x	2	x(	4.75	+	6	)x	8	= 172 Sft.
							Total:			**29714 Sft.**

Deductions

O.T

Openings

O.T							
D-4	2	x	4	x	1/2	=	4 Sft.
D-5	1	x	6.75	x	1/2	=	3 Sft.
Openings	1	x	33	x	1/2	=	17 Sft.
Main Building (A)							
O.T.S	2	x	20.5	x	8	=	328 Sft.
O.T.S	2	x	20.5	x	8	=	328 Sft.
Openings							
D-4	13	x	4	x	1/2	=	26 Sft.
D-5	4	x	6.75	x	1/2	=	14 Sft.
Openings	2	x	7.25	x	1/2	=	7 Sft.
Openings	2	x	20.5	x	1/2	=	21 Sft.
W-3	39	x	4	x	5	=	780 Sft.

Main BuildingStaff Portion								
Openings								
D-4	4	x	4	x	1/2	=	8 Sft.	
D-5	1	x	6.75	x	1/2	=	3 Sft.	
Openings	1	x	7.25	x	1/2	=	4 Sft.	
					Total:	=	**1543 Sft.**	-1543 Sft.
					Total:			**28171 Sft.**
						@	3135.90 %Sft	883,414

13 Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer section thickness is 1.2 mm.having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm or thickness including 5 mm thick imported tinted glass with sections are of dull aluminium rubber gasket using approved standard latches, hardware shade etc., as approved by the Engineer in-charge.

O.T								
W-1	8	x	3	x	1	x 5	=	120 Sft.
W-5	12	x	6	x	1	x 4	=	288 Sft.
W-6	1	x	7.375	x	1	x 6	=	44 Sft.
W-7	2	x	16	x	1	x 6	=	192 Sft.
Main Building (A)								
W-3	39	x	4	x	1	x 5	=	780 Sft.
Main BuildingStaff Portion								
W-2	10	x	3.667	x	1	x 5	=	183 Sft.
						Total:-	=	**1607 Sft.**
						@	1353.75 P.Sft	2,175,476

14 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.

As Qty item No.	13		1607 /	2				804 Sft
						Total:-	=	**804 Sft**
						@	494.50 P.Sft	397,578

15 Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of 3/8" Squar Bars 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

As Qty item No.	13		1607					1607 Sft
						Total:-	=	**1607 Sft**
						@	863.75 P.Sft	1,388,046

16 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.

Emergency	1	x	1	x	7.25	x	12	=	87 Sft
							Total:-	=	**87 Sft**
							@	1244.20 P.Sft	108,245

17 Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and 15 inch wide
embedding hold fast in cement concrete (1:2:4) ,complete in all respect as

Main Building (A)								
D-2	6	x	3			x 7	=	126 Sft.
D-3	8	x	3.5			x 7	=	196 Sft.

D-4	13 x	4	x	8 1/2	=	442 Sft.
D-5	4 x	6.75	x	8 1/2	=	230 Sft.
Main BuildingStaff Portion						
D-2	5 x	3	x	7	=	105 Sft.
D-3	4 x	3.5	x	7	=	98 Sft.
D-4	4 x	4	x	8 1/2	=	136 Sft.
D-5	1 x	6.75	x	8 1/2	=	57 Sft.
			Total:			**1390 Sft.**
					@	731.75 P.Sft. 1,017,133

18 Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating withantirust paint including filling with cement sand mortar (1:8) and
embedding hold fast in cement concrete (1:2:4) ,complete in all respect as 10½" wide.

O.T						
D-2	8 x	3	x	7	=	168 Sft.
D-3	9 x	3.5	x	7	=	221 Sft.
D-4	2 x	4	x	8 1/2	=	68 Sft.
D-5	1 x	6.75	x	8 1/2	=	57 Sft.
			Total:			**514 Sft.**
					@	626.40 P.Sft. 321,970

19 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.

O.T						
D-2	8 x	2.833	x	6.917	=	157 Sft.
D-3	9 x	3.333	x	6.917	=	207 Sft.
D-4	2 x	3.833	x	8.417	=	65 Sft.
D-5	1 x	6.583	x	8.417	=	55 Sft.
Main Building (A)						
D-2	6 x	2.833	x	6.917	=	118 Sft.
D-3	8 x	3.333	x	6.917	=	184 Sft.
D-4	13 x	3.833	x	8.417	=	419 Sft.
D-5	4 x	6.583	x	8.417	=	222 Sft.
Main BuildingStaff Portion						
D-2	5 x	2.833	x	6.917	=	98 Sft.
D-3	4 x	3.333	x	6.917	=	92 Sft.
D-4	4 x	3.833	x	8.417	=	129 Sft.
D-5	1 x	6.583	x	8.417	=	55 Sft.
Emergency						
D-6	10 x	4.833	x	8.417	=	407 Sft.
			Total:			**2208 Sft.**
					@	685.75 P.Sft. 1,514,136

20 Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect 02 Coats

Outside Building

O.T	2 x	27.25	x	16 1/8	=	879 Sft
"	2 x	4.5	x	16 1/8	=	145 Sft
"	1 x	19.125	x	16 1/8	=	308 Sft
"	2 x	9.25	x	16 1/8	=	298 Sft
"	2 x	5	x	16 1/8	=	161 Sft
"	2 x	35.625	x	16 1/8	=	1149 Sft
"	2 x	11.5	x	16 1/8	=	371 Sft
"	2 x	30.5	x	16 1/8	=	984 Sft
Corridor	2 x	30.25	x	16 1/8	=	976 Sft

Main Building	2	x	77.25			x	16 1/8	=	2491 Sft
"	1	x	56.125			x	16 1/8	=	905 Sft
"	1	x	49.375			x	16 1/8	=	796 Sft
"	2	x	14.25			x	16 1/8	=	460 Sft
"	1	x	4			x	16 1/8	=	65 Sft
"	1	x	10.75			x	16 1/8	=	173 Sft
"	2	x	64.375			x	16 1/8	=	2076 Sft
Staff Portion	1	x	85.5			x	16 1/8	=	1379 Sft
"	1	x	26.625			x	16 1/8	=	429 Sft
"	1	x	30.375			x	16 1/8	=	490 Sft
"	1	x	17.125			x	16 1/8	=	276 Sft
"	1	x	57.5			x	16 1/8	=	927 Sft
"	2	x	9.25			x	16 1/8	=	298 Sft
"	2	x	5			x	16 1/8	=	161 Sft
"	2	x	35.625			x	16 1/8	=	1149 Sft
Emergency	1	x	131.25			x	79 3/4	=	10467 Sft
"	2	x	15			x	16 1/8	=	484 Sft
							Total:-	=	**28297 Sft**
Deductions									
O.T									
D-2	2	x	3	x	7	=	42 Sft.		
W-1	8	x	3	x	5	=	120 Sft.		
W-5	12	x	6	x	4	=	288 Sft.		
W-7	2	x	16	x	6	=	192 Sft.		
Main Building (A)									
O.T.S	2	x	20.5	x	12	=	492 Sft.		
O.T.S	2	x	20.5	x	12	=	492 Sft.		
W-3	23	x	4	x	5	=	460 Sft.		
Main BuildingStaff Portion									
W-2	10	x	3.667	x	5	=	183 Sft.		
Emergency									
W-1	2	x	3	x	5	=	30 Sft.		
W-2	4	x	3.667	x	5	=	73 Sft.		
W-3	10	x	4	x	5	=	200 Sft.		
W-5	2	x	6	x	4	=	48 Sft.		
W-7	1	x	16	x	6	=	96 Sft.		
W-9	2	x	8	x	6	=	96 Sft.		
					Total:	=	**2812 Sft.**		-2812 Sft.
					Total:				**25485 Sft.**
								@	3887.00 %Sft 990,602

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

Inside Building Walls

O.T											
Sterilizing room	1	x	2	x(	16.875	+	9 3/8	)x	8	=	420 Sft.
Office	1	x	2	x(	16.875	+	9 7/8	)x	8	=	428 Sft.
O.T	2	x	2	x(	24.625	+	15 7/8	)x	8	=	1296 Sft.
Gyne O.T	1	x	2	x(	15	+	11 5/8	)x	8	=	426 Sft.
Eye O.T	1	x	2	x(	15	+	11 5/8	)x	8	=	426 Sft.
Store	2	x	2	x(	8.875	+	11 5/8	)x	8	=	656 Sft.
Reception.	1	x	2	x(	33	+	12 3/4	)x	8	=	732 Sft.
Toilet	2	x	2	x(	7.75	+	8 3/4	)x	8	=	528 Sft.
Corridor	1	x	2	x(	67.5	+	7 1/4	)x	8	=	1196 Sft.
Connecting Corridor	1	x	2	x(	7.25	+	30 1/4	)x	8	=	600 Sft.
Main Building (A)											
Male Ward	2	x	2	x(	40.75	+	20	)x	8	=	1944 Sft.
Office	2	x	2	x(	13.375	+	11 5/8	)x	8	=	800 Sft.
Private/Isolation room	2	x	2	x(	11.625	+	7 3/8	)x	8	=	608 Sft.
Corridor	1	x	2	x(	133.25	+	7 1/4	)x	8	=	2248 Sft.
Corridor	2	x	2	x(	24.25	+	8 1/2	)x	8	=	1048 Sft.
Corridor	2	x	2	x(	7.25	+	12 3/4	)x	8	=	640 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	8	=	1064 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	8	=	1064 Sft.

Male Ward	1	x	2	x(	15.5	+	20	)x	8	=	568 Sft.
Male Ward	1	x	2	x(	24.5	+	20	)x	8	=	712 Sft.
Female ward	1	x	2	x(	40.75	+	20	)x	8	=	972 Sft.
Private room	2	x	2	x(	11.625	+	7 3/8	)x	8	=	608 Sft.
Private room	2	x	2	x(	13.375	+	11 5/8	)x	8	=	800 Sft.
Store	1	x	2	x(	12.75	+	6 3/8	)x	8	=	306 Sft.
Front Corridor	1	x	2	x(	134.375	+	7 1/4	)x	8	=	2266 Sft.
Main BuildingStaff Portion											
surgen room	1	x	2	x(	11.75	+	16	)x	8	=	444 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	8	=	270 Sft.
M.S Office	1	x	2	x(	16	+	16	)x	8	=	512 Sft.
Medicine store	1	x	2	x(	19.625	+	16	)x	8	=	570 Sft.
Clerk Room	1	x	2	x(	12	+	16	)x	8	=	448 Sft.
Store	1	x	2	x(	11.75	+	12	)x	8	=	380 Sft.
Corridor	1	x	2	x(	72.75	+	7 1/4	)x	8	=	1280 Sft.
Gastro Counter	1	x	2	x(	11.75	+	16	)x	8	=	444 Sft.
Dental surgen	1	x	2	x(	16.375	+	16	)x	8	=	518 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	8	=	270 Sft.
Store	1	x	2	x(	16	+	16	)x	8	=	512 Sft.
Emergency											
O.T	1	x	2	x(	20	+	20	)x	8	=	640 Sft.
Doctor	1	x	2	x(	14	+	12	)x	8	=	416 Sft.
Change	1	x	2	x(	8.875	+	6	)x	8	=	238 Sft.
Duct	1	x	2	x(	6.75	+	8 1/2	)x	8	=	244 Sft.
W.C	1	x	2	x(	4.75	+	6	)x	8	=	172 Sft.
									Total:		**30514 Sft.**

Deductions							
O.T							
D-1	2	x	2.5	x	3	=	15 Sft.
D-2	8	x	3	x	3	=	72 Sft.
D-3	9	x	3.5	x	3	=	95 Sft.
D-4	2	x	4	x	4 1/2	=	36 Sft.
D-5	1	x	6.75	x	4 1/2	=	30 Sft.
Openings	1	x	33	x	4 1/2	=	149 Sft.
Main Building (A)							
O.T.S	2	x	20.5	x	8	=	328 Sft.
O.T.S	2	x	20.5	x	8	=	328 Sft.
Openings							
D-0	12	x	2	x	3	=	72 Sft.
D-1	9	x	2.5	x	3	=	68 Sft.
D-2	6	x	3	x	3	=	54 Sft.
D-3	8	x	3.5	x	3	=	84 Sft.
D-4	13	x	4	x	4 1/2	=	234 Sft.
D-5	4	x	6.75	x	4 1/2	=	122 Sft.
Openings	2	x	7.25	x	4 1/2	=	65 Sft.
Openings	2	x	20.5	x	4 1/2	=	185 Sft.
W-3	39	x	4	x	5	=	780 Sft.
Main BuildingStaff Portion							
Openings							
D-0	2	x	2	x	3	=	12.00 Sft.
D-2	5	x	3	x	3	=	45 Sft.
D-3	4	x	3.5	x	3	=	42 Sft.
D-4	4	x	4	x	4 1/2	=	72 Sft.
D-5	1	x	6.75	x	4 1/2	=	30 Sft.
Openings	1	x	7.25	x	4 1/2	=	33 Sft.
					Total:	=	**2951 Sft.**
							-2951 Sft.
					Total:		**27563 Sft.**
						@	376.65 %.Sft 103,816

22 Preparing surface and painting with emulsion paint 03 coats new surface

Ceiling							
O.T							
Sterilizing room	1	x	16.875	x	9 3/8	=	158 Sft.
Office	1	x	16.875	x	9 7/8	=	167 Sft.
O.T	2	x	24.625	x	15 7/8	=	782 Sft.

Scrub Up			2	x	7.375	x	10 7/8			=	160 Sft.
Gyne O.T			1	x	15	x	11 5/8			=	174 Sft.
Eye O.T			1	x	15	x	11 5/8			=	174 Sft.
Store			2	x	8.875	x	11 5/8			=	206 Sft.
Reception.			1	x	33	x	12 3/4			=	421 Sft.
Toilet			2	x	7.75	x	8 3/4			=	136 Sft.
Corridor			1	x	67.5	x	7 1/4			=	489 Sft.
Connecting Corridor			1	x	7.25	x	30 1/4			=	219 Sft.
Main Building (A)											
Lav.01			2	x	12.75	x	7 3/8			=	188 Sft.
Bath room			4	x	4	x	5 1/4			=	84 Sft.
Bath room			2	x	3.75	x	5 1/4			=	39 Sft.
Male Ward			2	x	40.75	x	20			=	1630 Sft.
Toilet			4	x	6	x	5 5/8			=	135 Sft.
Office			2	x	13.375	x	11 5/8			=	311 Sft.
Private/Isolation room			2	x	11.625	x	7 3/8			=	171 Sft.
Corridor			1	x	133.25	x	7 1/4			=	966 Sft.
Corridor			2	x	24.25	x	8 1/2			=	412 Sft.
Corridor			2	x	7.25	x	12 3/4			=	185 Sft.
O.T.S			2	x	12.75	x	20 1/2			=	523 Sft.
O.T.S			2	x	12.75	x	20 1/2			=	523 Sft.
Lav.02			2	x	12.75	x	5			=	128 Sft.
Bath room			4	x	4	x	5 1/4			=	84 Sft.
Bath room			2	x	3.75	x	5 1/4			=	39 Sft.
Male Ward			1	x	15.5	x	20			=	310 Sft.
Male Ward			1	x	24.5	x	20			=	490 Sft.
Female ward			1	x	40.75	x	20			=	815 Sft.
Private room			2	x	11.625	x	7 3/8			=	171 Sft.
Toilet			4	x	6	x	5 5/8			=	135 Sft.
Private room			2	x	13.375	x	11 5/8			=	311 Sft.
Store			1	x	12.75	x	6 3/8			=	81 Sft.
Front Corridor			1	x	134.375	x	7 1/4			=	974 Sft.
Main BuildingStaff Portion											
surgen room			1	x	11.75	x	16			=	188 Sft.
Toilet			1	x	7.875	x	6 5/8			=	52 Sft.
Exam			1	x	7.875	x	9			=	71 Sft.
M.S Office			1	x	16	x	16			=	256 Sft.
Medicine store			1	x	19.625	x	16			=	314 Sft.
Clerk Room			1	x	12	x	16			=	192 Sft.
Store			1	x	11.75	x	12			=	141 Sft.
Lav.			1	x	11.75	x	5 5/8			=	66 Sft.
Bath room			1	x	5	x	5			=	25 Sft.
Bath room			1	x	3.25	x	5			=	16 Sft.
Bath room			1	x	4	x	5 3/4			=	23 Sft.
Corridor			1	x	72.75	x	7 1/4			=	527 Sft.
Gastro Counter			1	x	11.75	x	16			=	188 Sft.
Dental surgen			1	x	16.375	x	16			=	262 Sft.
Exam			1	x	7.875	x	9			=	71 Sft.
Toilet			1	x	7.875	x	6 5/8			=	52 Sft.
Store			1	x	16	x	16			=	256 Sft.
Inside Building											
O.T											
Sterilizing room	1	x	2	x(	16.875	+	9 3/8	)x	8	=	420 Sft.
Office	1	x	2	x(	16.875	+	9 7/8	)x	8	=	428 Sft.
O.T	2	x	2	x(	24.625	+	15 7/8	)x	8	=	1296 Sft.
Gyne O.T	1	x	2	x(	15	+	11 5/8	)x	8	=	426 Sft.
Eye O.T	1	x	2	x(	15	+	11 5/8	)x	8	=	426 Sft.
Store	2	x	2	x(	8.875	+	11 5/8	)x	8	=	656 Sft.
Reception.	1	x	2	x(	33	+	12 3/4	)x	8	=	732 Sft.
Toilet	2	x	2	x(	7.75	+	8 3/4	)x	8	=	528 Sft.
Corridor	1	x	2	x(	67.5	+	7 1/4	)x	8	=	1196 Sft.
Connecting Corridor	1	x	2	x(	7.25	+	30 1/4	)x	8	=	600 Sft.
Main Building (A)											
Male Ward	2	x	2	x(	40.75	+	20	)x	8	=	1944 Sft.
Office	2	x	2	x(	13.375	+	11 5/8	)x	8	=	800 Sft.

Private/Isolation room	2	x	2 x(	11.625	+	7 3/8	)x	8	=	608 Sft.
Corridor	1	x	2 x(	133.25	+	7 1/4	)x	8	=	2248 Sft.
Corridor	2	x	2 x(	24.25	+	8 1/2	)x	8	=	1048 Sft.
Corridor	2	x	2 x(	7.25	+	12 3/4	)x	8	=	640 Sft.
O.T.S	2	x	2 x(	12.75	+	20 1/2	)x	8	=	1064 Sft.
O.T.S	2	x	2 x(	12.75	+	20 1/2	)x	8	=	1064 Sft.
Male Ward	1	x	2 x(	15.5	+	20	)x	8	=	568 Sft.
Male Ward	1	x	2 x(	24.5	+	20	)x	8	=	712 Sft.
Female ward	1	x	2 x(	40.75	+	20	)x	8	=	972 Sft.
Private room	2	x	2 x(	11.625	+	7 3/8	)x	8	=	608 Sft.
Private room	2	x	2 x(	13.375	+	11 5/8	)x	8	=	800 Sft.
Store	1	x	2 x(	12.75	+	6 3/8	)x	8	=	306 Sft.
Front Corridor	1	x	2 x(	134.375	+	7 1/4	)x	8	=	2266 Sft.
Main BuildingStaff Portion										
surgen room	1	x	2 x(	11.75	+	16	)x	8	=	444 Sft.
Exam	1	x	2 x(	7.875	+	9	)x	8	=	270 Sft.
M.S Office	1	x	2 x(	16	+	16	)x	8	=	512 Sft.
Medicine store	1	x	2 x(	19.625	+	16	)x	8	=	570 Sft.
Clerk Room	1	x	2 x(	12	+	16	)x	8	=	448 Sft.
Store	1	x	2 x(	11.75	+	12	)x	8	=	380 Sft.
Corridor	1	x	2 x(	72.75	+	7 1/4	)x	8	=	1280 Sft.
Gastro Counter	1	x	2 x(	11.75	+	16	)x	8	=	444 Sft.
Dental surgen	1	x	2 x(	16.375	+	16	)x	8	=	518 Sft.
Exam	1	x	2 x(	7.875	+	9	)x	8	=	270 Sft.
Store	1	x	2 x(	16	+	16	)x	8	=	512 Sft.
Emergency										
O.T	1	x	2 x(	20	+	20	)x	8	=	640 Sft.
Doctor	1	x	2 x(	14	+	12	)x	8	=	416 Sft.
Change	1	x	2 x(	8.875	+	6	)x	8	=	238 Sft.
Duct	1	x	2 x(	6.75	+	8 1/2	)x	8	=	244 Sft.
W.C	1	x	2 x(	4.75	+	6	)x	8	=	172 Sft.

						Total:		**45005 Sft.**
Deductions								
O.T								
D-1	2	x	2.5	x	3	=	15 Sft.	
D-2	8	x	3	x	3	=	72 Sft.	
D-3	9	x	3.5	x	3	=	95 Sft.	
D-4	2	x	4	x	4 1/2	=	36 Sft.	
D-5	1	x	6.75	x	4 1/2	=	30 Sft.	
Openings	1	x	33	x	4 1/2	=	149 Sft.	
Main Building (A)								
O.T.S	2	x	20.5	x	8	=	328 Sft.	
O.T.S	2	x	20.5	x	8	=	328 Sft.	
Openings								
D-0	12	x	2	x	3	=	72 Sft.	
D-1	9	x	2.5	x	3	=	68 Sft.	
D-2	6	x	3	x	3	=	54 Sft.	
D-3	8	x	3.5	x	3	=	84 Sft.	
D-4	13	x	4	x	4 1/2	=	234 Sft.	
D-5	4	x	6.75	x	4 1/2	=	122 Sft.	
Openings	2	x	7.25	x	4 1/2	=	65 Sft.	
Openings	2	x	20.5	x	4 1/2	=	185 Sft.	
W-3	39	x	4	x	5	=	780 Sft.	
Main BuildingStaff Portion								
Openings								
D-0	2	x	2	x	3	=	12.00 Sft.	
D-2	5	x	3	x	3	=	45 Sft.	
D-3	4	x	3.5	x	3	=	42 Sft.	
D-4	4	x	4	x	4 1/2	=	72 Sft.	
D-5	1	x	6.75	x	4 1/2	=	30 Sft.	
Openings	1	x	7.25	x	4 1/2	=	33 Sft.	
						Total: =	**2951 Sft.**	-2951 Sft.
						Total:		**42054 Sft.**
							@ 2962.10 %Sft	1,245,682

23 Preparing surface and painting with emulsion paint 02 coats i/c Scrapping (Colour Change)

Ceiling

Emergency

04 Beded ward	2	x	20.75	x	19		=	789 Sft.
Toilet	4	x	4.75	x	5		=	95 Sft.
Nurse	1	x	10	x	10		=	100 Sft.
Entrance back	1	x	20.75	x	10		=	208 Sft.
Doctor/cross/clinical room	3	x	10	x	19		=	570 Sft.
X-ray room	1	x	13	x	19		=	247 Sft.
Dark room	1	x	7	x	8 1/4		=	58 Sft.
Lav.	1	x	7	x	5 5/8		=	39 Sft.
Bath room	2	x	3.375	x	4		=	27 Sft.
Corridor	1	x	131.25	x	8 1/4		=	1083 Sft.
W.C	2	x	5	x	3 3/8		=	34 Sft.
W.C	2	x	6.375	x	3 3/8		=	43 Sft.
DMS Office	1	x	17.75	x	10		=	178 Sft.
Store	1	x	5	x	8		=	40 Sft.
Dispensary	1	x	13	x	19		=	247 Sft.
Waiting hall	2	x	15	x	19		=	570 Sft.
Waiting hall	1	x	33	x	20 1/2		=	677 Sft.
Nurse	1	x	10	x	12		=	120 Sft.
Change	1	x	6	x	12		=	72 Sft.
Lobby	1	x	16.75	x	15 1/4		=	255 Sft.
Corridor	1	x	82.125	x	8 1/4		=	678 Sft.
Trolley space/autoclave	2	x	6.75	x	10		=	135 Sft.
Plaster	1	x	14	x	13 5/8		=	191 Sft.
Splint	1	x	14	x	6		=	84 Sft.
Telephone/Reception	2	x	10	x	8 3/4		=	175 Sft.
Entrance front	1	x	44.5	x	21 1/8		=	940 Sft.
Treatment room	1	x	18	x	20		=	360 Sft.
Doctor	1	x	12	x	20		=	240 Sft.
Nurse	1	x	10	x	10 1/4		=	103 Sft.
Store	1	x	10	x	9 3/8		=	94 Sft.
W.C	1	x	4.625	x	4 1/2		=	21 Sft.

Inside Building Walls

Emergency

04 Beded ward	2	x	2 x(	20.75	+	19	)x	8	=	1272 Sft.
Toilet	4	x	2 x(	4.75	+	5	)x	8	=	624 Sft.
Nurse	1	x	2 x(	10	+	10	)x	8	=	320 Sft.
Entrance back	1	x	2 x(	20.75	+	10	)x	8	=	492 Sft.
Doctor/cross/clinical room	3	x	2 x(	10	+	19	)x	8	=	1392 Sft.
X-ray room	1	x	2 x(	13	+	19	)x	8	=	512 Sft.
Dark room	1	x	2 x(	7	+	8 1/4	)x	8	=	244 Sft.
Lav.	1	x	2 x(	7	+	5 5/8	)x	8	=	202 Sft.
Bath room	2	x	2 x(	3.375	+	4	)x	8	=	236 Sft.
Corridor	1	x	2 x(	131.25	+	8 1/4	)x	8	=	2232 Sft.
W.C	2	x	2 x(	5	+	3 3/8	)x	8	=	268 Sft.
W.C	2	x	2 x(	6.375	+	3 3/8	)x	8	=	312 Sft.
DMS Office	1	x	2 x(	17.75	+	10	)x	8	=	444 Sft.
Store	1	x	2 x(	5	+	8	)x	8	=	208 Sft.
Dispensary	1	x	2 x(	13	+	19	)x	8	=	512 Sft.
Waiting hall	2	x	2 x(	15	+	19	)x	8	=	1088 Sft.
Waiting hall	1	x	2 x(	33	+	20 1/2	)x	8	=	856 Sft.
Nurse	1	x	2 x(	10	+	12	)x	8	=	352 Sft.
Change	1	x	2 x(	6	+	12	)x	8	=	288 Sft.
Lobby	1	x	2 x(	16.75	+	15 1/4	)x	8	=	512 Sft.
Corridor	1	x	2 x(	82.125	+	8 1/4	)x	8	=	1446 Sft.
Trolley space/autoclave	2	x	2 x(	6.75	+	10	)x	8	=	536 Sft.
Plaster	1	x	2 x(	14	+	13 5/8	)x	8	=	442 Sft.
Splint	1	x	2 x(	14	+	6	)x	8	=	320 Sft.
Telephone/Reception	2	x	2 x(	10	+	8 3/4	)x	8	=	600 Sft.
Entrance front	1	x	2 x(	44.5	+	21 1/8	)x	8	=	1050 Sft.
Treatment room	1	x	2 x(	18	+	20	)x	8	=	608 Sft.
Doctor	1	x	2 x(	12	+	20	)x	8	=	512 Sft.
Nurse	1	x	2 x(	10	+	10 1/4	)x	8	=	324 Sft.
Store	1	x	2 x(	10	+	9 3/8	)x	8	=	310 Sft.
W.C	1	x	2 x(	4.625	+	4 1/2	)x	8	=	146 Sft.

							Total:	**27933 Sft.**	
Deductions									
Emergency									
D-1	16	x	2.5	x	3	=	120 Sft.		
D-2	6	x	3	x	3	=	54 Sft.		
D-3	13	x	3.5	x	3	=	137 Sft.		
D-6	10	x	5	x	4 1/2	=	225 Sft.		
D-7	1	x	6	x	4 1/2	=	27 Sft.		
Openings	2	x	33	x	8	=	528 Sft.		
Openings	2	x	12	x	8	=	192 Sft.		
Openings	1	x	10	x	8	=	80 Sft.		
Openings	1	x	6.75	x	4 1/2	=	30 Sft.		
					Total:	=	**1393 Sft.**	-1393 Sft.	
					Total:			**26540 Sft.**	
							@	3726.40 %Sft	988,987

24 Providing and laying conglomerate flooring (two coat work) with top layer of ½"(13mm) thick wearing surface, consisting of one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels 1½"(40 mm) thick

Plinth Protection								
O.T	2	x	27.25	x	4	=		218 Sft.
"	2	x	4.5	x	4	=		36 Sft.
"	1	x	19.125	x	4	=		77 Sft.
"	2	x	9.25	x	4	=		74 Sft.
"	2	x	5	x	4	=		40 Sft.
"	2	x	35.625	x	4	=		285 Sft.
"	2	x	11.5	x	4	=		92 Sft.
"	2	x	30.5	x	4	=		244 Sft.
Corridor	2	x	30.25	x	4	=		242 Sft.
Main Building	2	x	77.25	x	4	=		618 Sft.
"	1	x	56.125	x	4	=		225 Sft.
"	1	x	49.375	x	4	=		198 Sft.
"	2	x	14.25	x	4	=		114 Sft.
"	1	x	4	x	4	=		16 Sft.
"	1	x	10.75	x	4	=		43 Sft.
"	2	x	64.375	x	4	=		515 Sft.
Staff Portion	1	x	85.5	x	4	=		342 Sft.
"	1	x	26.625	x	4	=		107 Sft.
"	1	x	30.375	x	4	=		122 Sft.
"	1	x	17.125	x	4	=		69 Sft.
"	1	x	57.5	x	4	=		230 Sft.
Emergency	2	x	139.25	x	4	=		1114 Sft.
"	2	x	79.75	x	4	=		638 Sft.
						Total:-	=	**5959 Sft.**
							@	7553.45 %Sft	450,110

25 Filling, watering and ramming earth under floors with new earth excavated from outside, lead upto one mile.

O.T											
Sterilizing room	1	x	16.875	x	9 3/8	x	2 1/3	=		369 Cft.	
Office	1	x	16.875	x	9 7/8	x	2 1/3	=		389 Cft.	
O.T	2	x	24.625	x	15 7/8	x	2 1/3	=		1824 Cft.	
Scrub Up	2	x	7.375	x	10 7/8	x	2 1/3	=		374 Cft.	
Gyne O.T	1	x	15	x	11 5/8	x	2 1/3	=		407 Cft.	
Eye O.T	1	x	15	x	11 5/8	x	2 1/3	=		407 Cft.	
Store	2	x	8.875	x	11 5/8	x	2 1/3	=		481 Cft.	
Reception.	1	x	33	x	12 3/4	x	2 1/3	=		982 Cft.	
Toilet	2	x	7.75	x	8 3/4	x	2 1/3	=		316 Cft.	
Corridor	1	x	67.5	x	7 1/4	x	2 1/3	=		1142 Cft.	
Connecting Corridor	1	x	7.25	x	30 1/4	x	2 1/3	=		512 Cft.	
Main Building (A)											
Lav.01	2	x	12.75	x	7 3/8	x	2 1/3	=		439 Cft.	
Bath room	4	x	4	x	5 1/4	x	2 1/3	=		196 Cft.	
Bath room	2	x	3.75	x	5 1/4	x	2 1/3	=		92 Cft.	
Male Ward	2	x	40.75	x	20	x	2 1/3	=		3803 Cft.	
Toilet	4	x	6	x	5 5/8	x	2 1/3	=		315 Cft.	
Office	2	x	13.375	x	11 5/8	x	2 1/3	=		726 Cft.	

Private/Isolation room	2	x	11.625	x	7 3/8	x	2 1/3	=	400 Cft.
Corridor	1	x	133.25	x	7 1/4	x	2 1/3	=	2254 Cft.
Corridor	2	x	24.25	x	8 1/2	x	2 1/3	=	962 Cft.
Corridor	2	x	7.25	x	12 3/4	x	2 1/3	=	431 Cft.
O.T.S	2	x	12.75	x	20 1/2	x	2 1/3	=	1220 Cft.
O.T.S	2	x	12.75	x	20 1/2	x	2 1/3	=	1220 Cft.
Lav.02	2	x	12.75	x	5	x	2 1/3	=	298 Cft.
Bath room	4	x	4	x	5 1/4	x	2 1/3	=	196 Cft.
Bath room	2	x	3.75	x	5 1/4	x	2 1/3	=	92 Cft.
Male Ward	1	x	15.5	x	20	x	2 1/3	=	723 Cft.
Male Ward	1	x	24.5	x	20	x	2 1/3	=	1143 Cft.
Female ward	1	x	40.75	x	20	x	2 1/3	=	1902 Cft.
Private room	2	x	11.625	x	7 3/8	x	2 1/3	=	400 Cft.
Toilet	4	x	6	x	5 5/8	x	2 1/3	=	315 Cft.
Private room	2	x	13.375	x	11 5/8	x	2 1/3	=	726 Cft.
Store	1	x	12.75	x	6 3/8	x	2 1/3	=	190 Cft.
Front Corridor	1	x	134.375	x	7 1/4	x	2 1/3	=	2273 Cft.
							Total:		**28319 Cft.**
								@	16014.50 %0Cft 453,515

26 Supplying and filling sand under floor; or plugging in wells

O.T

Sterilizing room	1	x	16.875	x	9 3/8	x	1/3	=	53 Cft.
Office	1	x	16.875	x	9 7/8	x	1/3	=	56 Cft.
O.T	2	x	24.625	x	15 7/8	x	1/3	=	261 Cft.
Scrub Up	2	x	7.375	x	10 7/8	x	1/3	=	53 Cft.
Gyne O.T	1	x	15	x	11 5/8	x	1/3	=	58 Cft.
Eye O.T	1	x	15	x	11 5/8	x	1/3	=	58 Cft.
Store	2	x	8.875	x	11 5/8	x	1/3	=	69 Cft.
Reception.	1	x	33	x	12 3/4	x	1/3	=	140 Cft.
Toilet	2	x	7.75	x	8 3/4	x	1/3	=	45 Cft.
Corridor	1	x	67.5	x	7 1/4	x	1/3	=	163 Cft.
Connecting Corridor	1	x	7.25	x	30 1/4	x	1/3	=	73 Cft.
Main Building (A)									
Lav.01	2	x	12.75	x	7 3/8	x	1/3	=	63 Cft.
Bath room	4	x	4	x	5 1/4	x	1/3	=	28 Cft.
Bath room	2	x	3.75	x	5 1/4	x	1/3	=	13 Cft.
Male Ward	2	x	40.75	x	20	x	1/3	=	543 Cft.
Toilet	4	x	6	x	5 5/8	x	1/3	=	45 Cft.
Office	2	x	13.375	x	11 5/8	x	1/3	=	104 Cft.
Private/Isolation room	2	x	11.625	x	7 3/8	x	1/3	=	57 Cft.
Corridor	1	x	133.25	x	7 1/4	x	1/3	=	322 Cft.
Corridor	2	x	24.25	x	8 1/2	x	1/3	=	137 Cft.
Corridor	2	x	7.25	x	12 3/4	x	1/3	=	62 Cft.
O.T.S	2	x	12.75	x	20 1/2	x	1/3	=	174 Cft.
O.T.S	2	x	12.75	x	20 1/2	x	1/3	=	174 Cft.
Lav.02	2	x	12.75	x	5	x	1/3	=	43 Cft.
Bath room	4	x	4	x	5 1/4	x	1/3	=	28 Cft.
Bath room	2	x	3.75	x	5 1/4	x	1/3	=	13 Cft.
Male Ward	1	x	15.5	x	20	x	1/3	=	103 Cft.
Male Ward	1	x	24.5	x	20	x	1/3	=	163 Cft.
Female ward	1	x	40.75	x	20	x	1/3	=	272 Cft.
Private room	2	x	11.625	x	7 3/8	x	1/3	=	57 Cft.
Toilet	4	x	6	x	5 5/8	x	1/3	=	45 Cft.
Private room	2	x	13.375	x	11 5/8	x	1/3	=	104 Cft.
Store	1	x	12.75	x	6 3/8	x	1/3	=	27 Cft.
Front Corridor	1	x	134.375	x	7 1/4	x	1/3	=	325 Cft.
							Total:		**4731 #REF!**
								@	2824.60 %Cft 133,632

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

As Qty item No.	26	4731			4731 Cft.
				Total:	**4731 Cft.**
				@	9417.20 %Cft 445,528

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

O.T								
Sterilizing room	1	x	16.875	x	9 3/8	x	0.083	=	13 Cft.
Office	1	x	16.875	x	9 7/8	x	0.083	=	14 Cft.
O.T	2	x	24.625	x	15 7/8	x	0.083	=	65 Cft.
Scrub Up	2	x	7.375	x	10 7/8	x	0.083	=	13 Cft.
Gyne O.T	1	x	15	x	11 5/8	x	0.083	=	14 Cft.
Eye O.T	1	x	15	x	11 5/8	x	0.083	=	14 Cft.
Store	2	x	8.875	x	11 5/8	x	0.083	=	17 Cft.
Reception.	1	x	33	x	12 3/4	x	0.083	=	35 Cft.
Toilet	2	x	7.75	x	8 3/4	x	0.083	=	11 Cft.
Corridor	1	x	67.5	x	7 1/4	x	0.083	=	41 Cft.
Connecting Corridor	1	x	7.25	x	30 1/4	x	0.083	=	18 Cft.
Openings									
O.T									
D-1	2	x	2.5	x	1 1/8	x	0.083	=	0.47 Cft.
D-2	8	x	3	x	1 1/8	x	0.083	=	2 Cft.
D-3	9	x	3.5	x	1 1/8	x	0.083	=	3 Cft.
D-4	2	x	4	x	1 1/8	x	0.083	=	1 Cft.
D-5	1	x	6.75	x	1 1/8	x	0.083	=	1 Cft.
Openings	1	x	33	x	1 1/8	x	0.083	=	3 Cft.
Main Building (A)									
Lav.01	2	x	12.75	x	7 3/8	x	0.083	=	16 Cft.
Bath room	4	x	4	x	5 1/4	x	0.083	=	7 Cft.
Bath room	2	x	3.75	x	5 1/4	x	0.083	=	3 Cft.
Male Ward	2	x	40.75	x	20	x	0.083	=	135 Cft.
Toilet	4	x	6	x	5 5/8	x	0.083	=	11 Cft.
Office	2	x	13.375	x	11 5/8	x	0.083	=	26 Cft.
Private/Isolation room	2	x	11.625	x	7 3/8	x	0.083	=	14 Cft.
Corridor	1	x	133.25	x	7 1/4	x	0.083	=	80 Cft.
Corridor	2	x	24.25	x	8 1/2	x	0.083	=	34 Cft.
Corridor	2	x	7.25	x	12 3/4	x	0.083	=	15 Cft.
O.T.S	2	x	12.75	x	20 1/2	x	0.083	=	43 Cft.
O.T.S	2	x	12.75	x	20 1/2	x	0.083	=	43 Cft.
Lav.02	2	x	12.75	x	5	x	0.083	=	11 Cft.
Bath room	4	x	4	x	5 1/4	x	0.083	=	7 Cft.
Bath room	2	x	3.75	x	5 1/4	x	0.083	=	3 Cft.
Male Ward	1	x	15.5	x	20	x	0.083	=	26 Cft.
Male Ward	1	x	24.5	x	20	x	0.083	=	41 Cft.
Female ward	1	x	40.75	x	20	x	0.083	=	68 Cft.
Private room	2	x	11.625	x	7 3/8	x	0.083	=	14 Cft.
Toilet	4	x	6	x	5 5/8	x	0.083	=	11 Cft.
Private room	2	x	13.375	x	11 5/8	x	0.083	=	26 Cft.
Store	1	x	12.75	x	6 3/8	x	0.083	=	7 Cft.
Front Corridor	1	x	134.375	x	7 1/4	x	0.083	=	81 Cft.
Openings									
D-0	12	x	2	x	3/4	x	0.083	=	1 Cft.
D-1	9	x	2.5	x	3/4	x	0.083	=	1 Cft.
D-2	6	x	3	x	1 1/8	x	0.083	=	2 Cft.
D-3	8	x	3.5	x	1 1/8	x	0.083	=	3 Cft.
D-4	13	x	4	x	1 1/8	x	0.083	=	5 Cft.
D-5	4	x	6.75	x	1 1/8	x	0.083	=	3 Cft.
Openings	2	x	7.25	x	1 1/8	x	0.083	=	1 Cft.
Openings	2	x	20.5	x	1 1/8	x	0.083	=	4 Cft.
Main BuildingStaff Portion									
surgen room	1	x	11.75	x	16	x	0.083	=	16 Cft.
Toilet	1	x	7.875	x	6 5/8	x	0.083	=	4 Cft.
Exam	1	x	7.875	x	9	x	0.083	=	6 Cft.
M.S Office	1	x	16	x	16	x	0.083	=	21 Cft.
Medicine store	1	x	19.625	x	16	x	0.083	=	26 Cft.
Clerk Room	1	x	12	x	16	x	0.083	=	16 Cft.
Store	1	x	11.75	x	12	x	0.083	=	12 Cft.
Lav.	1	x	11.75	x	5 5/8	x	0.083	=	5 Cft.
Bath room	1	x	5	x	5	x	0.083	=	2 Cft.
Bath room	1	x	3.25	x	5	x	0.083	=	1 Cft.
Bath room	1	x	4	x	5 3/4	x	0.083	=	2 Cft.
Corridor	1	x	72.75	x	7 1/4	x	0.083	=	44 Cft.

Gastro Counter	1	x	11.75	x	16	x	0.083	=	16 Cft.
Dental surgen	1	x	16.375	x	16	x	0.083	=	22 Cft.
Exam	1	x	7.875	x	9	x	0.083	=	6 Cft.
Toilet	1	x	7.875	x	6 5/8	x	0.083	=	4 Cft.
Store	1	x	16	x	16	x	0.083	=	21 Cft.
Openings									
D-0	2	x	2	x	3/4	x	0.083	=	0.25 Cft.
D-2	5	x	3	x	3/4	x	0.083	=	1 Cft.
D-3	4	x	3.5	x	1 1/8	x	0.083	=	1 Cft.
D-4	4	x	4	x	1 1/8	x	0.083	=	1 Cft.
D-5	1	x	6.75	x	1 1/8	x	0.083	=	1 Cft.
Openings	1	x	7.25	x	1 1/8	x	0.083	=	1 Cft.
							Total:-	=	**1537 Cft.**
								@	38219.00 %Cft 587,426

29 Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)

1-1/2" thick D.P.C (1:2:4)							
Item No. 2		2152	x	0.11		=	237 Cft
R.C.C (1:2:4)							
Item No. 5		8169	x	0.88		=	7189 Cft
Item No. 5	ii	94	x	0.88		=	83 Cft
P.C.C (1:2:4)							
Item No. 28		1537	x	0.88		=	1353 Cft
1" thick P.C.C (1:3:6)							
Item No. 24		5959	x	0.0767		=	457 Cft
					Total:		**9319 Cft**
						@	9742.55 %.Cft. Rs.907908/-

30 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.

O.T								
Sterilizing room	1	x	16.875	x	9 3/8		=	158 Sft.
Office	1	x	16.875	x	9 7/8		=	167 Sft.
Gyne O.T	1	x	15	x	11 5/8		=	174 Sft.
Eye O.T	1	x	15	x	11 5/8		=	174 Sft.
	2	x	8.875	x	11 5/8		=	206 Sft.
Reception.	1	x	33	x	12 3/4		=	421 Sft.
Corridor	1	x	67.5	x	7 1/4		=	489 Sft.
Connecting Corridor	1	x	7.25	x	30 1/4		=	219 Sft.
Openings								
O.T								
D-2	8	x	3	x	1 1/8		=	27 Sft.
D-3	9	x	3.5	x	1 1/8		=	35 Sft.
D-4	2	x	4	x	1 1/8		=	9 Sft.
D-5	1	x	6.75	x	1 1/8		=	8 Sft.
Openings	1	x	33	x	1 1/8		=	37 Sft.
Main Building (A)								
Male Ward	2	x	40.75	x	20		=	1630 Sft.
Office	2	x	13.375	x	11 5/8		=	311 Sft.
Private/Isolation room	2	x	11.625	x	7 3/8		=	171 Sft.
Corridor	1	x	133.25	x	7 1/4		=	966 Sft.
Corridor	2	x	24.25	x	8 1/2		=	412 Sft.
Corridor	2	x	7.25	x	12 3/4		=	185 Sft.
O.T.S	2	x	12.75	x	20 1/2		=	523 Sft.
O.T.S	2	x	12.75	x	20 1/2		=	523 Sft.
Male Ward	1	x	15.5	x	20		=	310 Sft.
Male Ward	1	x	24.5	x	20		=	490 Sft.
Female ward	1	x	40.75	x	20		=	815 Sft.
Private room	2	x	11.625	x	7 3/8		=	171 Sft.
Private room	2	x	13.375	x	11 5/8		=	311 Sft.
	1	x	12.75	x	6 3/8		=	81 Sft.
Front Corridor	1	x	134.375	x	7 1/4		=	974 Sft.
Openings								

33 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.

Full body Glazed Tile 600mm x600 mm

Inside Building

O.T											
Sterilizing room	1	x	2	x(	16.875	+	9 3/8	)x	4	=	210 Sft.
Office	1	x	2	x(	16.875	+	9 7/8	)x	4	=	214 Sft.
	2	x	2	x(	8.875	+	11 5/8	)x	4	=	328 Sft.
Reception.	1	x	2	x(	33	+	12 3/4	)x	4	=	366 Sft.
Corridor	1	x	2	x(	67.5	+	7 1/4	)x	4	=	598 Sft.
Connecting Corridor	1	x	2	x(	7.25	+	30 1/4	)x	4	=	300 Sft.
Main Building (A)											
Male Ward	2	x	2	x(	40.75	+	20	)x	4	=	972 Sft.
Office	2	x	2	x(	13.375	+	11 5/8	)x	4	=	400 Sft.
Private/Isolation room	2	x	2	x(	11.625	+	7 3/8	)x	4	=	304 Sft.
Corridor	1	x	2	x(	133.25	+	7 1/4	)x	4	=	1124 Sft.
Corridor	2	x	2	x(	24.25	+	8 1/2	)x	4	=	524 Sft.
Corridor	2	x	2	x(	7.25	+	12 3/4	)x	4	=	320 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	4	=	532 Sft.
O.T.S	2	x	2	x(	12.75	+	20 1/2	)x	4	=	532 Sft.
Male Ward	1	x	2	x(	15.5	+	20	)x	4	=	284 Sft.
Male Ward	1	x	2	x(	24.5	+	20	)x	4	=	356 Sft.
Female ward	1	x	2	x(	40.75	+	20	)x	4	=	486 Sft.
Private room	2	x	2	x(	11.625	+	7 3/8	)x	4	=	304 Sft.
Private room	2	x	2	x(	13.375	+	11 5/8	)x	4	=	400 Sft.
	1	x	2	x(	12.75	+	6 3/8	)x	4	=	153 Sft.
Front Corridor	1	x	2	x(	134.375	+	7 1/4	)x	4	=	1133 Sft.
Main BuildingStaff Portion											
surgen room	1	x	2	x(	11.75	+	16	)x	4	=	222 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	4	=	135 Sft.
M.S Office	1	x	2	x(	16	+	16	)x	4	=	256 Sft.
	1	x	2	x(	19.625	+	16	)x	4	=	285 Sft.
Clerk Room	1	x	2	x(	12	+	16	)x	4	=	224 Sft.
Store	1	x	2	x(	11.75	+	12	)x	4	=	190 Sft.
Corridor	1	x	2	x(	72.75	+	7 1/4	)x	4	=	640 Sft.
Gastro Counter	1	x	2	x(	11.75	+	16	)x	4	=	222 Sft.
Dental surgen	1	x	2	x(	16.375	+	16	)x	4	=	259 Sft.
Exam	1	x	2	x(	7.875	+	9	)x	4	=	135 Sft.
	1	x	2	x(	16	+	16	)x	4	=	256 Sft.
Emergency											
O.T	1	x	2	x(	20	+	20	)x	4	=	320 Sft.
Doctor	1	x	2	x(	14	+	12	)x	4	=	208 Sft.
Change	1	x	2	x(	8.875	+	6	)x	4	=	119 Sft.
Duct	1	x	2	x(	6.75	+	8 1/2	)x	4	=	122 Sft.
							Total:				**13433 Sft.**

Deductions							
O.T							
D-2	8	x	3	x	4	=	96 Sft.
D-3	9	x	3.5	x	4	=	126 Sft.
D-4	2	x	4	x	4	=	32 Sft.
D-5	1	x	6.75	x	4	=	27 Sft.
Openings	1	x	33	x	4	=	132 Sft.
Main Building (A)							
O.T.S	2	x	20.5	x	4	=	164 Sft.
O.T.S	2	x	20.5	x	4	=	164 Sft.
Openings							
D-2	6	x	3	x	4	=	72 Sft.
D-3	8	x	3.5	x	4	=	112 Sft.
D-4	13	x	4	x	4	=	208 Sft.
D-5	4	x	6.75	x	4	=	108 Sft.
Openings	2	x	7.25	x	4	=	58 Sft.
Openings	2	x	20.5	x	4	=	164 Sft.
Main BuildingStaff Portion							

Openings									
D-2	5	x	3	x	4	=	60 Sft.		
D-3	4	x	3.5	x	4	=	56 Sft.		
D-4	4	x	4	x	4	=	64 Sft.		
D-5	1	x	6.75	x	4	=	27 Sft.		
Openings	1	x	7.25	x	4	=	29 Sft.		
						=	**1699 Sft.**	-1699 Sft.	
								11734 Sft.	
							@	341.90 P.Sft	4,011,855

34 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.
size **12"x36"**

O.T							
Scrub Up	2	x	7.375	x	10 7/8	=	160 Sft.
Toilet	2	x	7.75	x	8 3/4	=	136 Sft.
Main Building (A)							
Lav.01	2	x	12.75	x	7 3/8	=	188 Sft.
Bath room	4	x	4	x	5 1/4	=	84 Sft.
Bath room	2	x	3.75	x	5 1/4	=	39 Sft.
Toilet	4	x	6	x	5 5/8	=	135 Sft.
Lav.02	2	x	12.75	x	5	=	128 Sft.
Bath room	4	x	4	x	5 1/4	=	84 Sft.
Bath room	2	x	3.75	x	5 1/4	=	39 Sft.
Toilet	4	x	6	x	5 5/8	=	135 Sft.
Main BuildingStaff Portion							
Toilet	1	x	7.875	x	6 5/8	=	52 Sft.
Lav.	1	x	11.75	x	5 5/8	=	66 Sft.
Bath room	1	x	5	x	5	=	25 Sft.
Bath room	1	x	3.25	x	5	=	16 Sft.
Bath room	1	x	4	x	5 3/4	=	23 Sft.
Toilet	1	x	7.875	x	6 5/8	=	52 Sft.
					Total:-	=	**1362 Sft.**
						@	241.35 P.Sft 328,719

35 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.
size **12"x36"**

O.T											
Scrub Up	2	x	2 x(	7.375	+	10 7/8	)x	7	=	511 Sft.	
Toilet	2	x	2 x(	7.75	+	8 3/4	)x	7	=	462 Sft.	
Main Building (A)											
Lav.01	2	x	2 x(	12.75	+	7 3/8	)x	7	=	564 Sft.	
Bath room	4	x	2 x(	4	+	5 1/4	)x	7	=	518 Sft.	
Bath room	2	x	2 x(	3.75	+	5 1/4	)x	7	=	252 Sft.	
Toilet	4	x	2 x(	6	+	5 5/8	)x	7	=	651 Sft.	
Lav.02	2	x	2 x(	12.75	+	5	)x	7	=	497 Sft.	
Bath room	4	x	2 x(	4	+	5 1/4	)x	7	=	518 Sft.	
Bath room	2	x	2 x(	3.75	+	5 1/4	)x	7	=	252 Sft.	
Toilet	4	x	2 x(	6	+	5 5/8	)x	7	=	651 Sft.	
Main BuildingStaff Portion											
Toilet	1	x	2 x(	7.875	+	6 5/8	)x	7	=	203 Sft.	
Lav.	1	x	2 x(	11.75	+	5 5/8	)x	7	=	243 Sft.	
Bath room	1	x	2 x(	5	+	5	)x	7	=	140 Sft.	
Bath room	1	x	2 x(	3.25	+	5	)x	7	=	116 Sft.	
Bath room	1	x	2 x(	4	+	5 3/4	)x	7	=	137 Sft.	
Toilet	1	x	2 x(	7.875	+	6 5/8	)x	7	=	203 Sft.	
						Total:				**5918 Sft.**	

Deductions
O.T

D-1	2	x	2	x	2.5	x	7	=	70 Sft.	
Main Building (A)										
Openings										
D-0	12	x	2	x	2	x	7	=	336 Sft.	
D-1	9	x	2	x	2.5	x	7	=	315 Sft.	
Main BuildingStaff Portion										
Openings										
D-0	2	x	2	x	2	x	7	=	56 Sft.	
D-2	5	x	2	x	3	x	7	=	210 Sft.	
							Total:	=	**987 Sft.**	-987 Sft.
							Total:			**4931 Sft.**
								@	294.10 P.Sft	1,450,207

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

On Counter	1	x 60.00	x 2.00	=	120 Sft	
Step	4	x 6.00	x 1.00	=	24 Sft	
Nursing Counter						
Top	1	x 8.00	x 2.00	=	16 Sft	
Top	2	x 9.00	x 2.00	=	36 Sft	
Middle	1	x 8.00	x 2.875	=	23 Sft	
Middle	2	x 9.00	x 2.875	=	52 Sft	
				Total:-	=	**271 Sft**
					@	1310.70 P.Sft	355,200

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

Step	4	x 6.00	x 0.50	=	12 Sft	
Nursing Counter						
Top	2	x 8.00	x 0.25	=	4 Sft	
Top	1	x 1.75	x 0.25	=	0.44 Sft	
Top	4	x 9.00	x 0.25	=	9 Sft	
Top	2	x 1.75	x 0.25	=	1 Sft	
Offset	2	x 8.00	x 0.625	=	10 Sft	
Offset	1	x 0.50	x 0.625	=	0.31 Sft	
Offset	4	x 9.00	x 0.625	=	23 Sft	
Offset	2	x 0.50	x 0.625	=	1 Sft	
Rack portion	1	x 8.00	x 2.375	=	19 Sft	
Rack portion	1	x 2.625	x 2.375	=	6 Sft	
Rack portion	2	x 9.00	x 2.375	=	43 Sft	
Rack portion	2	x 2.625	x 2.375	=	12 Sft	
Bottom	2	x 8.00	x 0.500	=	8 Sft	
Bottom	1	x 1.625	x 0.500	=	1 Sft	
Bottom	4	x 9.00	x 0.500	=	18 Sft	
Bottom	2	x 1.625	x 0.500	=	2 Sft	
				Total:-	=	**170 Sft**
					@	1184.70 P.Sft	201,399

38 Providing and fixing 3" (75 mm) thick R.C.C. manhole cover, 22" (550 mm) dia, with tee shaped C.I. frame of 20" (500 mm) clear i/d (frame weighing 37.324 Kg or one maund) as per Standard Drawing STD/PD No. 5, of 1977, complete in all respects

35	x 1		=	35 Nos.	
			Total:-	=	**35 Nos.**
				@	11567.50 Each	404,863

39 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 16" sweep

30 x 1 = 30 Nos.

Total:- = 30 Nos.

@ 4454.75 Each 133,643

40 Providing and fixing 4" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung,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 @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge.
16SWG 10"x4"

O.T				
Reception.	1 x	73	=	73 Rft.
Corridor	1 x	67.5	=	68 Rft.
Connecting Corridor	1 x	40	=	40 Rft.
Main Building (A)				
Male Ward	2 x	60.75	=	122 Rft.
Corridor	1 x	133.25	=	133 Rft.
Corridor	2 x	30	=	60 Rft.
Corridor	2 x	12 3/4	=	26 Rft.
Male Ward	1 x	60	=	60 Rft.
Male Ward	1 x	65	=	65 Rft.
Female ward	1 x	65	=	65 Rft.
Front Corridor	1 x	134.375	=	134 Rft.
Main BuildingStaff Portion				
Corridor	1 x	90	=	90 Rft.

Total:- = 936 Rft.

@ 1010.10 P.Rft 945,454

41 Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc. complete in all respects:- a) On interior surface (without mastic strip)

OPD Block				
Wings	2 x	40	=	80 Rft.
Connecting Corridor	2 x	40	=	80 Rft.
Labor room and O.T Block				
Front Corridor	2 x	40	=	80 Rft.
Emergency and General Wards				
Corridor	2 x	40	=	80 Rft.

Total:- = 320 Rft.

@ 148.40 P.Rft 47,488

61247682 ~~61,91823~~

Total Rs. = ~~64,200,600~~

Add 3% Contingency 1837431 ~~1,836,988~~ 1838755

Total Rs. = ~~63,138,588~~ 63130578

Say Rs. = ~~63,138,600~~

63085112 ~~63130600~~

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

PIPELINE WITH FITTINGS

2nd Bi-Annual 2022

1- Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/ Popular/ IIL or equivalent, in trenches, as approved & directed by the engineer incharge, complete in all respects.

e) PN-16 (SDR-11)

i) 90 mm		=	500	Rft		
		@	349.8	P.Rft	Rs:	174,900
ii) 110 mm		=	250	Rft		
		@	525.05	P.Rft	Rs:	131,263
iii) 125 mm		=	100	Rft		
		@	678.7	P.Rft	Rs:	67,870
iv) 160 mm		=	50	Rft		
		@	1,104.00	P.Rft	Rs:	55,200

2- Providing and fixing heavy duty Globe valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.

(b) Flange Ended Ductile Iron Valve

(viii) 3" dia	1	=	1	No		
		@	30,686.40	Each	Rs:	30,686
(ix) 4" dia	1	=	1	No		
		@	34,886.40	Each	Rs:	34,886
(xi) 6" dia	1	=	1	No		
		@	60,206.40	Each	Rs:	60,206

3- Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge

(b) Flange Ended Ductile Iron Valve

(viii) 3" dia	1	=	1	No		
		@	21,758.40	Each	Rs:	21,758
(ix) 4" dia	1	=	1	No		
		@	30,158.40	Each	Rs:	30,158
(xi) 6" dia	1	=	1	No		
		@	47,730.00	Each	Rs:	47,730

4- Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge

(b) Flange Ended Ductile Iron Valve

(viii) 3" dia	1	=	1	No		
		@	21,758.40	Each	Rs:	21,758
(ix) 4" dia	1	=	1	No		
		@	30,158.40	Each	Rs:	30,158
(xi) 6" dia	1	=	1	No		
		@	47,730.00	Each	Rs:	47,730

5- Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in

1	x	500	x 2	x	3	= 3000	Cft
1	x	250	x 2	x	3	= 1500	Cft
1	x	100	x 2	x	3	= 600	Cft
1	x	50	x 2	x	3	= 300	Cft
				Total		**= 5400**	**Cft**
				@	7647.00	%0 cft	Rs: 41,294

6- Rehandling of earth work lead upto a single throw of kassi.

1	x	5400				= 5400	Cft
				Total		**= 5400**	**Cft**
				@	2547.60	%0Cft	Rs: 13,757

Total Rs:	**809,354**
Add 3% Contingency	**24,281**
Total Rs:	**833,635**
SAY Rs:	**833,600**

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer,
Buildings Division No.2
MULTAN.

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

DETAIL OF OVER HEAD RESERVOIR 10000 GALLON CAPACITY.

For analysis purpose take quantity 10000 Gallons
Unit of rate. Per Gallon
Based on MRS 2nd Bi-Annual 2022

S. No	Description of iotems	No	Lenghth	Breadth	Height	Contents	Amount
1	Excavation in foundation of building, bridges and other Excavation in foundation of building, bridges and other structure with excavated earth, watering and rammiing lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) in ordinary soil.						
	Toe wall.	2 x	19 x	2.5 x	2.5 =	238 Cft	
		2 x	16.5 x	2.5 x	2.5 =	206 Cft	
					Total:	**444** Cft	
				@	10712.60	%oCft	4,756
2	Excavation of well in dry upto 20'(6 metre) below ground level, and disposal of soil within one chain (30 metre) a) in ordinary soil or sand :- i) from 0' to 5'(0 to 1.5 metre) depth						
	O.H.R	3.14 x	20.5 x	20.5 x	5 =	6598 Cft	
				@	7571.45	%oCft	49,956
	ii) from 5.1' to 10' (1.5 to 3.0 metre) depth						
	O.H.R	3.14 x	20.5 x	20.5 x	2 =	2639 Cft	
				@	7907.75	%oCft	20,869
3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 4: 8						
	Base		$\frac{(3.14 \times 20.5 \times 20.5)}{4}$	x	0.75 =	247 Cft	
				@	24893	%Cft	61,486
4	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)						
		3.14 x	20.5x20.5x	1 /	4 =	330 Cft	
	Raft beam	3.14 x	11 x	1.5 x	1.5 =	78 Cft	
	Core Wall	3.14 x	11 x	0.5 x	8.5 =	147 Cft	
					Total:	**555** ***Cft***	
				@	460.05	P-Cft	255,328
5	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Coloumns	4 x	1.5 x	1.5 x	45 =	405 Cft	
	Braces	16 x	6.83 x	1.5 x	1.5 =	246 Cft	
	Top beam	4 x	6.83 x	1 x	1.667 =	46 Cft	
	Landing	5 x	2.25 x	2.25 x	0.33 =	8 Cft	
	Intermidiate slab	1 x	10 x	10 x	0.417 =	42 Cft	
	Tanki bottom slab.	3.14 x	41 x	0.625 x	-- =	80 Cft	
	Tanki bottom slab. 12.75x12.75/4	3.14 x	41 x	0.5 x	-- =	64 Cft	
	Hodi	2 x	2 x	1.5 x	0.208 =	1 Cft	
	Hodi	1 x	2 x	2 x	0.208 =	1 Cft	
	Hodi	1 x	1.5 x	1.5 x	0.208 =	0 Cft	
					Total:	***893*** ***Cft***	
				@	559.2	P-Cft	499,366

5A Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)

Item No.	4	555	x	0.88			=	488	Cft	
Item No.	5	893	x	0.88			=	786	Cft	
						Total:		***1274***	***Cft***	
					@	9742.55		%Cft		124,120

6 Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) Deformed bars (Grade-40)

Take 10lbs of item No.3 a,b	1448	x	9	x	0.454	x	--	=	5917	Kg
						@	31451.4		%Kgs	1,860,979

7 Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement: ii) ½"(13 mm) thick

	4	x	8	x	0.5	x	--	=	16	Sft
bottom beam.	3.14	x	10	x	10	x	0.25	=	79	Sft
Walls	3.14	x	10	x	9	x	--	=	283	Sft
							Total:		***378***	***Sft***
						@	21437		%Sft	81,032

8 Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position.

angle iron 2" x 2" x 1/4" (ladder)	2	x	85	x	--	x	170	= Rft		
					1.4		Kgs/P.Rft		238.00	Kgs
angle iron 1.5" x 1.5" x 3/16" Frame	4	x	2.5	x	--	x	10	= Rft		
	8	x	2.25	x	--	x	18	= Rft		
					Total		**28**	**= Rft**		
					0.8		Kgs/P.Rft		22.40	Kgs
angle iron 1.25" x 1.25" x 3/16" cover	2	x	2.25	x	--	x	4.5	= Rft		
	3	x	2.25	x	--	x	6.75	= Rft		
	10	x	2	x	--	x	20	= Rft		
					Total		**31.25**	**= Rft**		
					0.5		Kgs/P.Rft	=	15.625	Kgs
Round Iron 5/8" dia	75	x	1.5	x	--	x	112.5	= Rft		
					0.47		Kgs/P.Rft	=	52.875	Kgs
							Total:	=	***329***	***Kgs***
			32574.15	+	1307.85	@	33882.00		%Kgs	111,472

9 Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6

Toe wall.	1	x	71	x	0.75	x	4	=	213	Cft
							Total:		213	Cft
						@	28698		%Cft	61,127

10 Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.

Take 2/3 of excavation.	9681	x	2	/	3	x	--	=	6454	Cft
						@	5107.85		%0Cft	32,966

11 Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside, lead upto 5 Miles 1

	600	x	5	x	1	x	--	=	3000	Cft
(~~11190.1+4341.4+483.+5420~~)						@	~~21434.5~~ 16014.50		%oCft	~~64,304~~ 48044

12	Supplying and filling sand under floor; or plugging in wells.									
	Under Foundation (4x0.5)	3.14	x	20.5	x	20.5	/	2 =	660 Cft	
		1	x	71	x	1	x	0.33 =	23 Cft	
	Appron	1	x	71	x	4	x	0.33 =	94 Cft	
								Total: =	*777 Cft*	
							@	2824.6	%Cft	21,947
13	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.									
	Appron.	1	x	71	x	2	x	0.33 =	47 Cft	
		1	x	71	x	4	x	0.33 =	94 Cft	
								Total: =	*141 Cft*	
							@	9417.2	%Cft	13,278
14	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- (c) 1½"(40 mm) thick									
		1	x	71	x	4	x	-- =	284 Sft	
								Total: =	**284 Sft**	
							@	7093.55	%Sft	20,146
15	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1½" x 3/8" (40 x 10 mm)									
	Take 60% of item above.	284	x	60	/	100	x	-- =	170 Rft	
							@	19.8	P.Rft	3,366
16	Providing/fixing stair railing consisting of M.S. Box section size 1-1/2"x3" of 16 SWG welded with M.S. flat 1"x1/8" continuously and welded over M.S. square bars 5/8"x5/8" punched in M.S. flat 2 ¾' high @ 5½" c/c fixed in steps on stair I/C painting 3 coats complete.									
		3.14	x	10	x	--	x	-- =	31 Rft	
							@	1077.75	P.Rft	33,410
17	Extra labour for laying concrete plain or reinforced (a) above 20' (6 m) upto 40'(12 m) height									
	Coloumns	4	x	1.5	x	1.5	x	20 =	180 Cft	
	Braces	8	x	6.83	x	1	x	1 =	55 Cft	
	Top beam	4	x	6.83	x	1	x	1.667 =	46 Cft	
	Landing	3	x	2.25	x	2.25	x	0.33 =	5 Cft	
	Tanki bottom slab. 12.75x12.75/4	3.14	x	41	x	0.58	x	-- =	75 Cft	
	Top slab 12 x 12/4	3.14	x	36	x	0.417	x	-- =	47 Cft	
	Core Wall	3.14	x	11	x	0.5	x	8.5 =	147 Cft	
								Total: =	**555 Cft**	
							@	4076.15	%Cft	22,623
18	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:4									
	Core Wall	3.14	x	10.25	x	0.375	x	9 =	109 Cft	
		3.14	x	12.75	x	0.375	x	9 =	135 Cft	
								Total: =	**244 Cft**	
							@	32585.8	%Cft	79,509
19	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:6									
	O.H.R	4	x	7.75	x	0.75	x	9 =	209 Cft	
	Deduction									
	Cw	2	x	3	x	0.75	x	1.5 =	7 Cft	
	D.Opening	1	x	4	x	0.75	x	7 =	21 Cft	
	Lintles	2	x	4	x	0.75	x	0.5 =	3 Cft	
	D/L	1	x	5	x	0.75	x	0.5 =	2 Cft	
								Total: =	**33 Cft**	
								Balance	**176 Cft**	
							@	30913	%Cft	54,407
20	Cement plaster 1:5 upto 20' (6.00 mm) height:- b) ½" (13 mm) thick									
	Toe Wall	1	x	71	x	1.5	x	-- =	107 Sft	
	Drain	2	x	3	x	1.25	x	-- =	8 Sft	
	Hodi	8	x	2.5	x	1.5	x	-- =	30 Sft	

	Hodi	8	x	4	x	1.25	x	--	=	40	Sft	
								Total:	=	**185**	**Sft**	
							@	3135.9		%Sft		5,801
21	Cement plaster 1:4 upto 20' (6.00 mm) height:- b) ½" (13 mm) thick											
	O.H.R Room	2	x	4	x	7.75	x	9	=	558	Sft	
	Reservoir	3.14	x	12	x	9.5	x	--	=	358	Sft	
								Total:		**916**	**Sft**	
							@	3285.45		%Sft		30,095
22	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge Double Leaf											
		1	x	4	x	7	x	--	=	28	Sft	
							@	1396.75		P-Sft		39,109
24	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 the Engineer Incharge. ii) iron sliding bolt, 12" (300 mm) long	--	x	--	x	--	x	--	=	1	No	
							@	473.5		Each		474
25	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- (Three coats)											
		1	x	2	x	4	x	7	x	56	Sft	
		1325.5	+	722.6	+	722.6	@	2770.7		%Sft		1,552
32	Distempering:- a) new surface:- iii) three coats	4	x	7.75	x	9	x	--	=	279	Sft	
							@	1,309.95		%Sft		3,655

Total: ~~3,557,133~~ 3540873

Add 3% Contengency ~~106,714~~ 106226

Net Total ~~3,663,847~~ 3647099

Say Rs. ~~3,664,000~~ 3647000

Cost of Per Gallon $\frac{\text{~~3664000~~ } 3647000}{10000}$ = ~~366.4~~ 364.7 → 365

Say Rs= ~~366~~ 365

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

DETAILED ESTIMATE FOR INSTALLATION OF 1/2-CUSEC VERTICAL TURBINE PUMP I/C BORING, PUMP CHAMBER AND POWER WIRING ETC

2nd Bi-Annual 2022

ABSTRACT OF COST

1	1/2-Cusec Vertical Turbine Pump	Rs:	2,913,750
2	Boring of Tube Well	Rs:	2,570,000
3	Pumpimg Chamber	Rs:	~~943,100~~ 906200 /-
4	Power Wiring	Rs:	237,600
5	G.I. Pipeline	Rs:	375,900
6	Foundation of turbine	Rs:	18,300
	Total	**Rs:**	~~7,058,650~~ 7021750
	Add 03 % Contingency	Rs:	~~211,760~~ 210653
	Total		~~7,270,410~~ 7232403 /-
	Say		~~7,270,000~~ 7232000 /-

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

MACHINERY 1/2-CUSEC DISCHARGE VERTICAL TURBINE PUMP

Providing and installation of Vertical Turbine Pump (KSB) 1/2-Cusec ALTA 260.60 /04-Stages discharge against the total head of 160 latest manufacture assembly steel carbon shafts. Column pipes upto 100` coupled with 20-BHP Electric Motor (Primemover SIEM V-I) 330 /440-Volts 1450-Cycles i/c cost of Motor Control Unit ASD-20 (KSB Standard) Mounting clamps size 4" 1-No. Set, Butterfly, Reflex Valve 4" dia and Mechanical installation without civil & electrical work complete in all respects as required at site of work and as approved by the Enigneer Incharge (Working condition)

2nd Bi-Annual 2022

Unit of Rate = P.Job

1- Providing and installation of Vertical Turbine Pump (KSB) 1/2-Cusec ALTA 260.60 /04-Stages discharge against the total head of 160 latest manufacture assembly steel carbon shafts. Column pipes upto 100` coupled with 20-BHP Electric Motor (Primemover SIEM V-I) 330 /440-Volts 1450-Cycles i/c cost of Motor Control Unit ASD-20 (KSB Standard) Mounting clamps size 4" 1-No. Set, Butterfly, Reflex Valve 4" dia and Mechanical installation without civil & electrical work complete in all respects as required at site of work and as approved by the Enigneer Incharge (Working condition)

Quotation from KSB Office at Multan attached

=	1	Job			
@	2590000	P.Job	Rs:		2,590,000
			Total Rs:		**2,590,000**
Add 12.5% Contractor's Profit on all items			Rs:		323,750
			Total Rs:		**2,913,750**
			SAY RS:		**2,913,750**

1- *Certified that Input Rates of Material and Labour for the item at Serial No.* ***NIL*** *are as per Input Rates displayed on website of Finance Department for* ***2nd Bi-annual 2022***

2- *Certified that Rates for item at Serial No.* ***All*** *are not available on the website of Finance Department for* ***2nd Bi-annual 2022*** *and as such the Rate of Rs: _____ has been applied after ascertaining it from the market*

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
MULTAN

Superintending Engineer
Building Circle Multan

150 YEARS
People. Passion. Performance.

KSB

QUOTATION
Vertical Line Shaft Turbine Pump
ALTA

Executive Engineer Building Division .2 Multan					
Ref:	Telephonic	Date	23.08.22	Our Ref:	MEA 12751 (1)
No. of Pumps:	01	Pump Type	ALTA 260.60/4	Date	23.08.22

Capacity	0.50 cusec	Max. O.D of Bowl	10.23
Pump total head	160 FT	I.D tube well	12 inch
Bowl Assembly Head		Length of strainer	
Speed	1450 rpm	Length of suction pipe	
Bowl Input		Length of bowl assembly	
Line Shaft loss		Length of column pipe	100 ft
Pump Input		Length of Top pipe	1 ft
Prime Mover (SIEM V-1)	20 HP/4Pole	Total Length of column	101 ft
		Total length of pump	

Material Specifications

Pump Assembly		*Column pipe assembly*	
Bowls	Cast Iron	column pipe	Steel
Impellers	Cast Iron	Shaft	Carbon Steel
Wearing ring	Cast Iron	Shaft Sleeve	Bronze
Shaft	Stainless Steel	Shaft couplings	Steel
Shaft Sleeves	Bronze	Bearings	Rubber Lined
Bearing	Bronze	Bearing retainer	Cast Iron
		Column pipe coupling	Cast Iron
		Top shaft	Stainless Steel

Component parts of each pumping unit

Pump assembly of	4	stages with mixed flow type impeller full dia		
Column assembly of	4	inches ID. With flanged joints each 10 ft length	10	set
		each 5 ft length		sets
		each 2m length		sets
		and one top set	1	feet length
		shaft dia	25	mm

Discharge head with 4 inches discharge branch type 4342 A flange BSS with Priming Tank

Price of pumping unit as specified above

ACCESSORIES:

(1) Motor Control Unit ASD-20 Make KSB	Included
(2) Cast Iron Sluice & Reflux Valve 4 inch	Included
(3) Mech. & Electrical Installation with in the pump house, w/o any civil works	Included
Price Per Set Inclusive of 17% GST	Rs. 2,590,000

Commercial Terms & Condition:

Delivery at:	Site.
Delivery Time:	6 to 8 Weeks after receipt of firm order
Validity:	30 days
Terms of Payment:	50% Advance, balance before delivery

For KSB Pumps Company Limited

Sales Department

Working out the price of above mentioned engineered product should be acknowledged as KSB's prerogative. This Quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospective client. After expiry of quotation's validity KSB reserve the right to change price as a result of market forces/manufacturing variables.
Procuring agency is requested to comply with all PPRA rules as it is its responsibility.

BORING OF THE TUBE WELL (1/2-CUSEC TURBINE)

2nd Bi-Annual 2022

1-	Direct Rotary/ Reverse Rotary drilling of bore for tube well in all type of soil except shingle gravel and rock (a) from ground level to 250' below ground level 15" to 18" dia					
		=	250	Rft		
	Ch:23 Itm. 5-a-i (p-130)	@	775.15	P.Rft	Rs:	193,788
2-	Exceeding 250' depth below ground level 15" to 18"					
		=	150	Rft		
	Ch:23 Itm. 5-b-i (p-130)	@	775.15	P.Rft	Rs:	116,273
3-	Providing strong substantly built box of deodar wood 4'x2-1/2'x9" with compartment Rock and locking arrangement, for preserving samples of strats from bore hole					
		=	1	Job		
	Ch:23 Itm. 7 (p-130)	@	34428.2	P.Job	Rs:	34,428
4-	Fumishing sample of water from bore hole					
		=	3	Sets		
	Ch:23 Itm. 8 (P-130)	@	183.95	P.Set	Rs:	552
5-	Providing & Installing brass strainer in tube well bore hole 8" dia 3/16" thick					
	8" dia 3/16" thick	=	100	Rft		
	Ch:23 Itm. 9-g (P-131)	@	9729.1	P.Rft	Rs:	972,910
6-	Providing & Installing M.S.Bail plug in tube well bore hole 8" dia 2ft long					
		=	1	No.		
	Ch:23 Itm. 10-g (P-131)	@	4906.15	P.Rft	Rs:	4,906
7-	Providing & Installing M.S. Blind pipe socket welded joint M.S. reducer in tube well Bore hole i/c jointing welding with strainer complete					
i)	8" dia 3/16" thick	=	180	Rft		
	Ch:23 Itm. 14-g (P-132)	@	2886	P.Rft	Rs:	519,480
ii)	12" dia 1/4" thick	=	120	Rft		
	Ch:23 Itm. 14-j (P-132)	@	4729.95	P.Rft	Rs:	567,594
8-	Shrouding with Graded Pea Gravel 3/8" to 1/8" (10 to 3mm) around tube well in bore hole					
	22 /7 x 1.5 x 1.5 x 1/4 x 400	=	707	Cft		
	(22 /7 (1 x 1) x 120 / 4 + (22 /7 (0.667 x .667) x 280 / 4					
		(-)	192	Cft		
	Balance:	=	**515**	**Cft**		
	Ch:23 Itm. 18 (p-133)	@	145	P.Cft	Rs:	74,675
9-	Providing and fixing Well Cap 12" dia comprising of 1/8" thick Iron Sheet and MS Flat 2"x1/8" complete in all respects and as approved by the Engineer Incharge					
		=	1	No.		
	(N.S)	@	1200	Each	Rs:	1,200
10-	P /F Welding 1/2" dia MS Long Bar longitudnally along with strainer for keeping the strainer in correct vertical position as required at site of work and as approved by the Engineer Incharge					
	2x80	=	160	Rft		
	(N.S)	@	80	P.Rft	Rs:	12,800
11-	Providing and fixing of Clamps of MS Flat 3"x3/8" and 3' long on top of casing pipe to avoid sinking i/c cost of nut and bolt of required size complete as desired by the Engineer Incharge					
		=	1	Job		
	(N.S)	@	3500	P.Job	Rs:	3,500
12-	Testing and developing of tube well of size 6" i/d and above contineously upto 1.5-cusec discharge 24-hours					
		=	24	Hour		
	133/17-i	@	2828.55	P.Hour	Rs:	67,885
					Total Rs:	**2,569,991**
					SAY Rs:	**2,570,000**

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No. 2
MULTAN

DETAILED ESTIMATE FOR PUMPING CHAMBER 12' X 12' SIZE

2nd Bi-Annual 2022

1. Excavation in foundation of bridges and other structure i/c dag belling dressing etc: complete.

Room L/W	2x16-1/8x3x2	=	196 Cft			
SW	2x10-1/8x3x2	=	122 Cft			
Toe walls L/W	2x23-1/2x2x1-1/2	=	141 Cft			
	2x19-1/2x2x1-1/2	=	117 Cft			
	Total	=	576 Cft	@	10712.6 %oCft	6,170 /-

2. Cement concrte brick or stone ballast 1-1/2" to 2" gauge in foundaiton and plinth (Ratio 1:6:12).

Room L/W	2x16-1/8x3x3/4	=	73.00 Cft			
S/W	2x10-1/8x3x3/4	=	46.00 Cft			
	Total	=	119.00 Cft	@	21217.4 % Cft	25,249 /-

3. Dry rammed brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth

Toe wall L/W	2x23-1/2x2x1/2	=	47 Cft			
S/W	2x19-1/2x2x1/2	=	39 Cft			
	Total	=	86.00 Cft	@	9035.4 % Cft	7,770 /-

4. Pacca brick work in 1:6 c/s mortar in F & P

Room L/W	2x15x1-7/8x1/4	=	14.00 Cft			
	2x14-5/8x1-1/2x1/4	=	11.00 Cft			
	2x14-1/4x1-1/8x3-1/2	=	112.00 Cft			
S/W	2x11-1/4x1-7/8x1/4	=	11.00 Cft			
	2x11-5/8x1-1/2x1/4	=	9.00 Cft			
	2x12x1-1/8x3-1/2	=	95.00 Cft			
Toe wall L/W	2x23x1-1/2x1/4	=	17.00 Cft			
	2x22-5/8x1-1/8x1/4	=	13.00 Cft			
	2x22-1/4x3/4x1-3/4	=	58.00 Cft			
S/W	2x20x1-1/2x1/4	=	15.00 Cft			
	2x20-3/8x1-1/8x1/4	=	11.00 Cft			
	2x20-3/4x3/4x1-3/4	=	56.00 Cft			
Steps	1x5x2-1/4x5/8	=	7.00 Cft			
	1x5x1-1/8x5/8	=	4.00 Cft			
	Total	=	433.00 Cft	@	28698 % Cft	124,262 /-

5. P/L DPC of cement concrte 1:2:4 1-1/2" thick i/c bitumen coating 01 coat and of polythene sheet 500 gauge.

i) D.P.C. No. 1						
L/Wall	2x14.25x1.125	=	32 Sft			
S/Wall	2x12x1.125	=	27 Sft			
ii) D.P.C. No. 2						
L/Wall	2x14.25x1.125	=	32 Sft			
S/Wall	2x12x1.125	=	27 Sft			
	Total	=	118 Sft			
D/duct	1x4x1-1/8	=	5 Sft			
	Balance	=	113 Sft	@	8660.55 % Sft	9,786 /-

6.	P/L vertical DPC with c/s plaster and bitumen coating with one coat of bitumen (1:3,1/2" thick) & one caot polythene sheet.							
		1x2(12+12)x1-1/2	=	72.00 Sft	@	5681.05 % Cft	4,090	/-
7.	Filling watering ramming earth under floors with surplus earth excavated from foundation etc. 2/3 Qty as/item No.1							
	Above	2/3x576	=	384.00 Cft	@	5107.85 0%Cft	1,961	/-
8.	Filling watering ramming earth under floors with new earth excavated from out side sources lead up to ~~5~~ 1 miles i/c transportation charges of earth							
	Room	1x12x12x2	=	228.00 Cft				
	Under apros:	2x20-3/4x3-1/4x1/2	=	67.00 Cft				
		2x14-1/4x3-1/4x1/2	=	46.00 Cft				
	O/s apros:	2x26-1/4x2x1-1/4	=	131.00 Cft				
		2x22-1/4x2x1-1/4	=	111.00 Cft				
		Total	=	583.00 Cft	@	~~24484.5 0~~%Cft	~~12,496~~ /-	
9.	Pacca brick work in ground floor and cement sand							
	a) Ratio (1:6)							
	Room L/W	2x14-1/4x1-1/8x12	=	385.00 Cft				
		2x12x1-1/8x12	=	324.00 Cft				
	Parapit	2x14-1/4x3/4x1-7/8	=	40.00 Cft				
		2x12-3/4x1-7/8	=	36.00 Cft				
		Total	=	785.00 Cft				
	D/deductions							
	Opgs O	1x4x1-1/8x8-1/2	=	38.00 Cft				
	W	3x3-1/2x1-1/8x4	=	47.00 Cft				
	A	2x4x3/8x5	=	15.00 Cft				
	Lintels D	1x5x1-1/8x1/2	=	2.00 Cft				
	W	3x4-1/2x1-1/8x1/2	=	8.00 Cft				
	A	2x5x3/8x1/2	=	2.00 Cft				
		Total	=	112.00 Cft				
	Net	(785 - 112)	=	673.00 Cft	@	30913 % Cft	208,044	/-
10.	Pacca brick work in ground floor and cement sand mortar (G.F)							
	a) Ratio (1:4)							
	Girder Pill	2x2-1/4x3/4x2	=	7 Cft				
	Al Sides:	2x2x1-1/8x3/8x5	=	8 Cft				
		2x1x1-1/8x1/4x4-1/4	=	2 Cft				
		Total	=	17 Cft	@	32585.8 % Cft	5,540	/-
11.	RCC 1:2:4 work in roof slabs beams cols lintels girdus, and other structural members laid in situ or precast laid in position complete in all respect							
	Lintels D	1x5x1-1/8x1/2	=	3 Cft				
	W	3x4-1/2x1-1/8x1/2	=	8 Cft				
	Al	2x5x3/8x1/2	=	2 Cft				
	Shades D	1x5x1-1/2x1/4	=	2 Cft				
	W	3x4-1/2x1-1/2x1/4	=	5 Cft				
	Al	2x5x3/4x1/3	=	2 Cft				
	Shelves	2x3x5x1-1/8x1/6	=	6 Cft				
	Slab Rows	1x13-1/2x13-1/2x5/12	=	76 Cft				
		Total	=	104 Cft	@	559.2 P.Cft	58,157	/-
11 A	Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)							
	Item No. 11	104 x 0.88	=	92 Cft				
		Total	=	92 Cft	@	9742.55 %.Cft	8,963	/-

12. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastenings for binding wire and labour charges for bending of steel reinforcement (also includes removal of rust from bar. (Deformed bars)

Qty as / item No:12 above	104x6.75x0.454	=	319	Kg			
	Total	=	319	Kg	@	31451.40 % Kg	100,330 /-

13. Bitumen coating to plastered or cement concrete surface:-i) 10 lbs.per 100 Sft (4.54 Kg per Sq.m)

Bearing of slab L/W	2x13-1/2x3/4	=	20	Sft			
	2x12x3/4	=	18	Sft			
	Total	=	38	Sft	@	1223.15 % Sft	465 /-

14. P/F Iron door comprising of specified leaves made of 1-1/4"x11/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats including cost of Chowkat(M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm) complete in all respect as approved and directed by the Engineer incharge.(ii) Double Leaf

	1x4x7	=	28	Sft	@	1396.75 P.Sft	39,109 /-

15. P/F class room almirah consisting of 1" thick solid flush with deodar wood lipping 1/4" thick all around(sterling made) fixed in deodar wood frame 3"x1" i/c ful hinges C.P. fitting with RCC (1:1-1/2"3) shelves 1 1/2" (40mm) thick i/c 3 coats of painting

	2x4x5	=	40	Sft	@	819.3 P.Sft	32,772 /-

16. P/F MS box section of 16SWG, having frames of 2"x1-1/2", leave frame of T-type box section of 2"x1"x1", with ½"x1/2" box section using, Ushaped rubber for fixing 5mm thick glass panes i/c the cost of fixing of 24 SWG wire guaze on inner side by means of ½"x1/8" MS flat patti, MS grill fitted with in the window frame and screws including hinges, brass handles and painting 3coats. Complete in all respect

W:	3x3-1/2x4	=	42	Sft	@	1342.75 P Sft	56,396 /-

17. Preparing surface to doors and windows any type i/c the edges 3 coat new surface

Al	2x2x4x5	=	80	Sft	@	2770.70 %Sft	2,217 /-

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

Motor Found	1x3-1/2x3-1/2x2	=	25	Cft			
Beam	28x3/48	=	2	Cft			
	Total	=	27	Cft	@	38219 %Cft	10,319 /-

19. 1/2" thick cement plaster 1:4 upto 20' ht =

Motor Found	1x2(2-1/2+2-1/2)x2	=	20	Sft			
Parapit	2x14-1/4x3-1/2	=	100	Sft			
	2x12-3/4x3-1/2	=	89	Sft			
Girder Pillars	2x2(2-1/4+3/4)x2	=	24	Sft			
Al: Side	2x2x2-1/4x5	=	45	Sft			
	2x1x2-1/4x4-1/4	=	19	Sft			
inside	1x2(12+12)x11-1/2	=	552	Sft			
	Total	=	849	Sft	@	3285.45 %Sft	27,893 /-

20. Cement Pointing struck Joints, on walls, upto 20' height a) ratio 1:2 i/c Red Oxide Pigment

	o/s room	4x14-1/4x15-1/2	=	884 Sft	@	3573.2 %Sft	31,587 /-
21.	Single layer of tile 9" x 4-1/2" laid over 4" earth and 1" mud plaster without bhoosa grouted with cement sand 1:3 on top of RCC roof slab provided with 34LBS per % Sft bitumen coating sand blinded . Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	1x12x12	=	144 Sft	@	12070.9 % Sft	17,382 /-
22.	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement ii) ½"(13 mm) thick						
	In side	1x2(12+12)x1/2	=	24 Sft	@	21437.00 % Sft	5,145 /-
23.	Supply/filling sand under floors or plugging in walls						
	Room	1x12x12x1/3	=	48 Cft			
	Plinth	1x2(18-3/4+14-1/4)x2-1/4x1/3	=	49 Cft			
		Total:	=	**97 Cft**	@	2824.60 % Cft	2,740 /-
24.	Khurra on roof 2'x2'x6"		=	1 No	@	865.75 Each	866 /-
25.	Providing and laying conglomerate flooring (two coat work) with top layer of ½"(13mm) thick wearing surface, consisting of one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:-						
i)	1-1/2" thick						
	L.Wall	2x20.25x3	=	122 Sft			
	S.Wall	2x14.25x3	=	86 Sft			
		Total	=	208 Sft	@	7703.45 % Sft	16,023 /-
ii)	2" thick						
	Room Floor	1x12x12	=	144 Sft			
		1x4x1-1/8	=	5 Sft			
		Total	=	**149 Sft**			
	Deduct:	4-1/2x4-1/2	=	20 Sft			
		NET:	=	**129 Sft**	@	9745.85 % Sft	12,572 /-
26.	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/waste pipemake of dadex /Popular/Beta/BBJ 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 32.5/SN-8 4"(110 mm)		=	13 Rft	@	260.70 P Rft	3,389 /-
27.	Distempering new surface three coats		=	528 Sft	@	6170.80 % Sft	32,582 /-
29.	S /E of Ceiling Rose (149/30)		=	2 Nos	@	67.65 Each	135 /-
30.	S /E of Holder (Bakelite) large size (149/39)		=	1 No	@	104.85 Each	105 /-

31.	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete. single rod (40 watts) with one choke and one starter.	=	1	No	@	1235.30	Each	1,235 /-
32.	S/E of M.S sheet board. 9"x4" (146/14)	=	1	No	@	489.30	Each	489 /-
ii)	7"x4"	=	2	Nos	@	380.50	Each	761 /-
33.	S/E switches 5 Amp (Piano) (149/31(ii))	=	5	Nos	@	73.30	Each	367 /-
34.	S/E of 3-pin 5 Amp wall socket (149/34)	=	1	No	@	91.50	Each	92 /-
35.	S/E of PVC pipe for wiring recessed. 3/4" dia (143/3(ii)) 1x4x12 48x0.3048(20mm)	=	48	Rft	@	83.70	P Rft	4,018 /-
36.	S/E of PVC Insulated Copper Conductor Cable in prelaid PVC Pipe (144/10-a)							
i)	3 /0.029"	=	120	Rft	@	26.10	P Rft	3,132 /-
ii)	7 /0.029"	=	60	Rft	@	41.15	P Rft	2,469 /-
37.	S/E of 03-Pin Plug & Switch combined 10-15-Amps (149/36)	=	1	No.	@	151.10	Each	151 /-
38.	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, but excluding erection in position. (P/Hoisting girders 4" x 8" weighing 18 lbs / Rft. (14 Rft x 18 x 0.454) (155/10)	=	114	Kg	@	33882.00	%Kg	38,625 /-
39.	S/E of A.C. ceiling fan 56" sweep	=	1	No	@	~~2500.~~6522.00	Each	6500~~7,500~~ /-
40.	Erection of A.C Ceiling Fan (154/83)	=	1	No	@	469.65	Each	470 /-
41.	Earthing of Iron /Aluminum Clad Main Switches	=	2	No	@	9635.15	P.Job	19,270 /-

Total ~~943,094~~ /-
906162

Say ~~943,100~~ /-
906200/—

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer,
Buildings Division No.2
MULTAN..

POWER WIRING (ELECTRIC INSTALLATIONS) FOR TURBINE

2nd Bi-Annual 2022

1-	Earthing of Iron Clad /Aluminum Switches with GI Wire No. 8-SWG in GI Pipe (1/2 dia) recessed or on surface or wall and floor complete with 1.5-meter long GI Pipe (2" dia) with reducing socket 4 to 5 meter long below ground level 02-meter away from building plinth						
	Motor & S. Board 1+1	=	2	Nos.			
		@	9635.15	Each		Rs:	19270
2-	S /E of Iron /Aluminum Clad 500-Volts Main Switches with Kit Kat fuses on L-Iron Board with 03-mm (1/8" thick) MS Sheet covering i/c bonding to earth with necessary flexible pipe and thimbles etc (Tripple Pole with Neutral Link) 100-Amps wood board						
		=	1	No.			
		@	6523.25	Each		Rs:	6523
3-	S /E of Single Core PVC Insulated PVC Copper Conductor Cable 250-440-Volts grade cables (BSS-2004) in preload PVC Pipe /MS Conduit GI Pipe /Wooden Strip Bateen /Wooden Crossing & Coping trenches etc (Rate for Cables						
i)	**7/0.064"** 2x4(5+10+80+25)	=	960	Rft			
		@	176.15	P.Rft		Rs:	169104
4-	S /E of PVC Pipe for recessed wiring (Main & Sub Main) purpose i/c bends specials etc in floor walls & trenches 02" dia						
i)	02" dia 1(10+80+15)	=	105	Rft			
		@	186.05	P.Rft		Rs:	19535
5-	S /E of House Service Pipe Henley (G.I Pipe Water Quality) or pole type 50-mm (02" dia) erected to install insulated overhead line i/c shackle insulator for holding insulated wire & straining devices for bearer wire & other accessories etc complete 151/54						
	1x10	=	10	Rft			
		@	655.1	P.Rft		Rs:	6551
6-	Supply and erection of G.I Wire No. 16-SWG for support of earthing wire pole to pole etc or rubber wire 151/60						
	1(10+80+25) = 115-Rft	=	2	Kg			
		@	314.45	P.Kg		Rs:	629
7-	Providing and fixing Switch Board 4'x3' size consisting of S Sheet 1/8" thick with Angle Iron 1-1/2"x1-1/2"x3/16" frame with 04-No. Legs (Holdfasts) to be fixed at suitable place i/c cost of volt meter, amp meter and phase indicator bulbts "0" Watts brass holder and wiring i/c painting 03-coats complete in all respects as required at site of work and as approved by the Engineer Incharge						
		=	1	Job			
		@	16000	P.Job		Rs:	16000
					Total Rs:		**237612**
					SAY RS:		**237600/-**

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
MULTAN

G.I PIPE LINE WITH FITTING (TURBINE TO O.H RESERVIOR)

2nd Bi-Annual 2022

1	Providing, laying cutting, jointing, testing and disinfecting G.I pipeline in trenches, with socket joints, using G.I pipes of B.S.S 1387-1967 complete in all respect with special and valves. (Medium Quality)			
	A) 4" dia			
	Turbine to OHR 1(78+30+50+50)	=	208 Rft	
		=	**208 Rft**	
			@ 1565.25 P.Rft	325,572
2	Providing and Fixing sluice valve of B.S.S quality and weight, Class "B" for cast iron pipe line, and Asbestos cement pipe line (including cost of jointing material):-			
	A) 4" dia	=	**1 No.**	
			@ 18404.75 Each	18,405
3	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material).			
	A) 2" dia (Double)	=	**1 No.**	
			@ 11461.15 Each	11,461
4	Providing and Fixing Reflex / Non Retunr Valve with FInged including Cost of jointing material at site of work complete in all respects as apporved by the Engineer Incharge.(4" dia) N.S	=	**1 No.**	
			@ 16000 Each	16,000
5	Excavation of trenches in all kind of soil except cutting rock for w/s pipe lines up to 5" depth from G. level i/c trimming, dressing sides leveling the bed of trenches to correct grade and cutting pits for joints etc complete			
	1x100x1x2-1/2	=	**250 Cft**	
			@ 7647.00 %0Cft	1,912
6	Bitumen coating to plastered or cement concrete surface:- 10 lbs. per 100 Sft. (4.54 Kg per Sq.m)			
	1x(100)x22/7x1/3	=	**105 Sft**	
			@ 1223.15 %Sft	1,284
7	Supply and Laying one layer of polythene sheet 300 gauge			
	Take same qty. item No.6	=	**105 Sft**	
			@ 6.00 P.Sft	630
8	Rehandling of earth work lead up to a single throw of kassi, phaorah or showel			
	Take same qty. item No.5	=	**250 Cft**	
			@ 2547.60 %0Cft	637
			Total Rs:	**375,901**
			Say Rs:	**375,900**

SUB ENGINEER

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Buildings Sub Division
Shujabad

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Buildings Division No.2
Multan

DETAIL OF TURBINE FOUNDATION

2nd Bi-Annual 2022

1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). b) in ordinary soil.			
	4-1/2x4-1/2x1	=	**20 Cft**	
			@ 10712.6 %0Cft	214
2	Dry rammed brick or stone ballast, 1½ to 2" gauge.			
	4-1/2x4-1/2x1/2	=	**10 Cft**	
			@ 9035.40 %Cft	904
3	RCC in Slab of rafts /strip foundation base slab etc or other structure not requiring from work i.e. horiznotal shuttering (Type "C" (Ratio 1:2:4)			
	4-1/2x4-1/2x1	=	**20.25 Cft**	
			@ 460.05 P.Cft	9,316
4	Fabrication of Mild Steel Reinforcement for Cement Concrete i/c cutting bending laying in position (Deformed Bars Grade 40)			
	2x2x8x4.67	=	**149 Rft**	
	149x0.375x.4536	=	**25 Kg**	
			@ 31451.40 %Kg	7,863
			Total Rs:	**18,297**
			Say Rs:	**18,300**

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

DETAILED ESTIMATE FOR INSTALLATION OF OF DISPOSL SYSTEM WITH CENTRIFUGAL PUMP INCLUDING G.I PIPELINE ,POWER WIRING, CONSTRUCTION OF PUMP CHAMBER 12' x 12' AND SAMP WITH FORCE MAIN ETC.

ABSTRACT OF COST

2nd Bi-Annual 2022

1	Machinary for disposal work	Rs:	1,406,300
2	G.I Pipeline with fittings	Rs:	122,900
3	Power wiring for Disposal System	Rs:	157,000
4	Construction of Pumping Chamber 12' x 12'	Rs:	~~943,100~~ 906200
5	Collecting Tank 14' dia	Rs:	1,257,500
6	Screening Chamber	Rs:	293,000
7	Pump Foundation	Rs:	18,300
8	Force main Pump to Main sewer line	Rs:	318,500
	Total	**Rs:**	~~4,516,600~~ 4429700
	Add 03% Contingency	Rs:	~~135,498~~ 134391/—
	Total	**Rs:**	~~4,652,098~~ 4614091/—
	Say		~~4,652,000~~ 4614000/—

SUB ENGINEER

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Buildings Sub Division
Shujabad

Executive Engineer,
Buildings Division No.2
MULTAN..

NON CLOGGING CENTRIFUGAL PUMP

Providing and Installation of Non Clogging Centrifugal Pump KSB (Size 2-1/2"x3") capable of 0.5-Cusec Discharge coupled with A.C Electric Motor 7.5-BHP 03-Phase 1450-RPM, Base Plate, Switch Starter i/c foundation complete in all respects and as approved by the Engineer Incharge

Unit of Rate = P.Job
2nd Bi-Annual 2022

1- Providing and Installation of Non Clogging Centrifugal Pump KSB (Size 2-1/2"x3") capable of 0.5-Cusec Discharge coupled with A.C Electric Motor 7.5-BHP 03-Phase 1450-RPM, Base Plate, Switch Starter i/c foundation complete in all respects and as approved by the Engineer Incharge

Quotation from KSB Office at Multan attached

=	1	Job			
@	1250000	P.Job	Rs:	1,250,000
			Total Rs:	1,250,000
Add 12.5% Contractor's Profit on all items			Rs:	156,250
			Total Rs:	1,406,250
			SAY RS:	1,406,300

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer,
Buildings Division No.2
MULTAN..

Superintending Engineer
Building Circle Multan

150 YEARS
People. Passion. Performance.

KSB

Executive Engineer,
Buildings Division 02
Multan

Quotation

NON CLOGGING CENTRIFUGAL PUMP

Your Reference No.	Telephonic
Date	23.08.22
Item Number	01

Quotation /Order Confirmation No.		MEA 12751 (2)	
Quantity	01	Date	23.08.22

We thank you for your above enquiry/order and are pleased to submit our offer/order confirmation subject to our general conditions for Sales and Supply of equipment contained in form 07 FT-04 attached.

TECHNICAL PART

Pump Data

Pump Type	Sewatec	65-250
Liquid handled	Sewage	
Flow rate	0.50 CUSEC	
Pump total head	40 Ft	
Speed	1450	rpm
Specific Gravity		
Viscosity / PH Value		
Pump Input		
Motor/ Engine Rating	7.5 HP	HP
NPSH Required		
Impeller diameter / Type		
Suction Flange I.D.	3	inch
Delivery Flange I.D.	2.5	inch
Flange Standard	BS Table 10 D	
Shaft Seal	Gland Pack	
Coupling Type	H95	

Driver	Electric Motor		
Make/Type	Siemens	Rated Speed	1450 RPM
Protection	IP55	Rated Output	7.5 HP
Insulation Class	F	Voltage	400
Ambient Temp.	40 c	Phase	3
Enclosure		Cycle/Sec	50 Hz

Material GG-25

Part	Material	Part	Material
Pump Casing	GG-25	Shaft	C-45N
Impeller	GG-25	Suction Cover	GG-25
Discharge Cover	GG-25	Seal Ring	GG-25
S.P Sleeve	1.4138	Spider	Cast Iron
S.B Gland	Cast Iron	Throat bush	Cast Iron
Mechanical Seal		Type	

COMMERCIAL PART

Price Basis

Ex	Ex-Customer Site
Delivery Time	4 to 6 weeks after confirm order
Validity	30 Days
Terms of Payment	50% Advance, balance before dilivery

Scope of Supply

Item Description	Scope	Qty	Total Value Rs.
Sewatec 65-250	y	1	Included
MCU (KSB Make)	Y	1	Included
Fabricated Frame	y	1	Included
Coupling	Y	1	Included
Electric Motor 7.5HP/4P Siemens	y	1	Included
			———
			———

Total Price per Set including 17% GST	Rs.1,250,000-

for KSB Pumps Company Limited

Sales Department

Working out the price of above mentioned engineered product should be acknowledged as KSB's prerogative. This Quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospective client. After expiry of quotation's validity KSB reserve the right to change price as a result of market forces/manufacturing variables.
Procuring agency is requested to comply with all PPRA rules as it is its responsibility.

KSB PUMPS COMPANY LIMITED: Regional Sales Office: Ground Floor, Golden Heights Plaza, Nusrat Road, Multan Cantt.
UAN: +92-61-111-572-786 · Tel: +92-61-4541983-84 · Fax: +92-61-4541784 · Email: ksbmul@ksb.com.pk · www.ksb.com.pk

WORKS: Hazara Road, Hassanabdal, Pakistan · Tel: +92-57-2520236 · Fax: +92-57-2520237 · E-mail: admin.hasanabdal@ksb.com.pk

PIPELINE WITH FITTINGS

2nd Bi-Annual 2022

1- Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete: -

2" dia	=	40	Rft			
	@	584	P.Rft	Rs:		23,360
3" dia	=	40	Rft			
	@	778.4	P.Rft	Rs:		31,136

2- Providing and fixing of Sluice valve of B.SS quality class 'B' for pipe line.

3" dia	2	=	2	No		
		@	17750.3	Each	Rs:	35,501

3- Providing and fixing C.I Specials of B.S.S classs 'B' (bend, tee, cross, collar ,redicer, etc. 3" to 6" dia.

Bend 4" dia

4	x	16	=	64	Kg

Bend 5" dia

2	x	18	=	36	Kg
		Total		**100**	**Kg**

@	123.05	P.Kg	Rs:		12,305

4- Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in

1	x	20	x	4	x	10	=	800	Cft		
1	x	20	x	3	x	3	=	180	Cft		
					Total		=	**980**	**Cft**		
					@		7647.00		%0 cft	Rs:	7,494

5- Bitumen coating to plastered or c.concrete surface including polythen sheet. 10 lbs

1	x	20	x	22/7	x	3/7	=	27	Sft		
1	x	25	x	22/7	x	1/3	=	26	Sft		
						Total	=	**53**	**Sft**		
						@	1223.15		%Sft	Rs:	648

6- Rehandling of earth work lead upto a single throw of kassi.

1	x	980					=	980	Cft		
						Total	=	**980**	**Cft**		
						@	2547.60		%0Cft	Rs:	2,497

7- Providing and fixing of C.I foot valve 3' dia complete in respect as approved by engineer incharge.

1	x	1					=	1	No		
						Total	=	**1**	**No**		
						@	10000		Each	Rs:	10,000

Total Rs: 122,941

SAY Rs: 122,900

SUB ENGINEER

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Executive Engineer,
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MULTAN..

POWER WIRING (ELECTRIC INSTALLATIONS)

2nd Bi-Annual 2022

1- Supply and erection of PVC pipe for wiring on recessed including inspection boxes, pull boxes, hooks, cutting jharrie and repairing surface, etc., complete with all specials.

40 mm i.d	1	x	30	30	Rft			
			@	148.10	P.Rft	Rs:		4,443
20 mm i.d	1	x	50	50	Rft			
			@	83.70	P.Rft	Rs:		4,185

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

3/0.029"	1	x	200	200	Rft			
			@	26.10	P.Rft	Rs:		5,220
7/0.036"	1	x	150	150	Rft			
			@	54.25	P.Rft	Rs:		8,138
7/0.044"	1	x	240	240	Rft			
			@	75.6	P.Rft	Rs:		18,144
7/0.064"	1	x	500	500	Rft			
			@	176.15	P.Rft	Rs:		88,075

3- S /E of Iron /Aluminum Clad 500-Volts Main Switches with Kit Kat fuses on L-Iron Board with 03-mm (1/8" thick) MS Sheet covering i/c bonding to earth with necessary flexible pipe and thimbles etc (Tripple Pole with Neutral Link) 100-Amps

	=	2	No.			
	@	6523.25	Each	Rs:		13,047

4- Supply and erection of house service pipe 50 mm (2") dia G.I . pi pe Henl ey or pol e t ype f or bare copper wi re overhead l i ne,including shackle insulator, straining devices and otheraccessor i es et c.

1x10	=	10	Rft			
	@	628.95	P.Rft	Rs:		6,290

5- Supply and erection of Stay for House Service Pipe erected with straining screws and 7 /14" Stay Wire complete

1x20	=	20	Rft			
	@	63.25	P.Rft	Rs:		1,265

6- Earthing of metlic cases with G.I wire 8 SWG in 15mm dia G.I pipeline. recessed in wall, including hooks, jharries and making good surface

20	=	20	Rft			
	@	172.8	P.Rft	Rs:		3,456

7- S/E of M.S Sheet Box 16-SWG

8"x10"	2	=	2	No.		
		@	698.25	Each	Rs:	1,397
7"x4"	2	=	2	No.		
		@	380.5	Each	Rs:	761

8- Supply and erection of wall type/pole type bracket, with double cover water tight reflector, flexible wire and brass bolder.

1	=	1	No.			
	@	993	Each	Rs:		993

9- Supply & Erection of switch 5 Amp piano type

10	=	10	No.			
	@	73.3	Each	Rs:		733

10- Supply and erection of 3 pin. 5 Amp wall socket.

2	=	2	No.			
	@	91.5	Each	Rs:		183

11- S/E Button holder bakelite large size

4	=	4	No.			
	@	54.55	Each	Rs:		218

12- S/E of 3-pin switch and plug combind recessed type 10/15 Amp:

2	=	2	No.			
	@	135.4	Each	Rs:		271

13-	S/E of 03 pin 10/15 Amp: wall socket.open type					
		2	=	2	No.	
			@	84.45	Each	Rs: 169

Total Rs: 156,988

SAY RS: 157,000

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer,
Buildings Division No.2
MULTAN..

6. P/L vertical DPC with c/s plaster and bitumen coating with one coat of bitumen (1:3,1/2" thick) & one caot polythene sheet.

	1x2(12+12)x1-1/2	=	72.00 Sft	@	5681.05 % Cft	4090 /-

7. Filling watering ramming earth under floors with surplus earth excavated from foundation etc. 2/3 Qty as/item No.1

Above	2/3x576	=	384.00 Cft	@	5107.85 0%Cft	1961 /-

8. Filling watering ramming earth under floors with new earth excavated from out side sources lead up to ~~5~~ 1 mile miles i/c transportation charges of earth

Room	1x12x12x2	=	228.00 Cft			
Under apros:	2x20-3/4x3-1/4x1/2	=	67.00 Cft			
	2x14-1/4x3-1/4x1/2	=	46.00 Cft			
O/s apros:	2x26-1/4x2x1-1/4	=	131.00 Cft			
	2x22-1/4x2x1-1/4	=	111.00 Cft			
	Total	=	583.00 Cft	@	~~24434.5~~ 0%Cft	~~12496~~ /-
					1601/4.50	9336/

9. Pacca brick work in ground floor and cement sand

a) Ratio (1:6)

Room L/W	2x14-1/4x1-1/8x12	=	385.00 Cft			
	2x12x1-1/8x12	=	324.00 Cft			
Parapit	2x14-1/4x3/4x1-7/8	=	40.00 Cft			
	2x12-3/4x1-7/8	=	36.00 Cft			
	Total	=	785.00 Cft			

D/deductions

Opgs	O	1x4x1-1/8x8-1/2	=	38.00 Cft		
	W	3x3-1/2x1-1/8x4	=	47.00 Cft		
	A	2x4x3/8x5	=	15.00 Cft		
Lintels	D	1x5x1-1/8x1/2	=	2.00 Cft		
	W	3x4-1/2x1-1/8x1/2	=	8.00 Cft		
	A	2x5x3/8x1/2	=	2.00 Cft		
		Total	=	112.00 Cft		
	Net	(785 - 112)	=	673.00 Cft	@ 30913 % Cft	208044 /-

10. Pacca brick work in ground floor and cement sand mortar (G.F)

a) Ratio (1:4)

Girder Pill	2x2-1/4x3/4x2	=	7 Cft			
Al Sides:	2x2x1-1/8x3/8x5	=	8 Cft			
	2x1x1-1/8x1/4x4-1/4	=	2 Cft			
	Total	=	17 Cft	@	32585.8 % Cft	5540 /-

11. RCC 1:2:4 work in roof slabs beams cols lintels girdus, and other structural members laid in situ or precast laid in position complete in all respect

Lintels	D	1x5x1-1/8x1/2	=	3 Cft		
	W	3x4-1/2x1-1/8x1/2	=	8 Cft		
	Al	2x5x3/8x1/2	=	2 Cft		
Shades	D	1x5x1-1/2x1/4	=	2 Cft		
	W	3x4-1/2x1-1/2x1/4	=	5 Cft		
	Al	2x5x3/4x1/3	=	2 Cft		
Shelves		2x3x5x1-1/8x1/6	=	6 Cft		
Slab	Rows	1x13-1/2x13-1/2x5/12	=	76 Cft		
		Total	=	104 Cft	@ 559.2 P.Cft	58157 /-

11 A Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)

Item No. 11	104 x 0.88	=	92 Cft			
	Total	=	92 Cft	@	9742.55 %.Cft	8963 /-

12. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastenings for binding wire and labour charges for bending of steel reinforcement (also includes removal of rust from bar. (Deformed bars)

Qty as / item No:12 above	104x6.75x0.454	=	319 Kg			
	Total	=	319 Kg	@	31451.40 % Kg	100330 /-

13. Bitumen coating to plastered or cement concrete surface:-i) 10 lbs.per 100 Sft (4.54 Kg per Sq.m)

Bearing of slab L/W	2x13-1/2x3/4	=	20 Sft			
	2x12x3/4	=	18 Sft			
	Total	=	38 Sft	@	1223.15 % Sft	465 /-

14. P/F Iron door comprising of specified leaves made of 1-1/4"x11/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats including cost of Chowkat(M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm) complete in all respect as approved and directed by the Engineer

	1x4x7	=	28 Sft	@	1396.75 P.Sft	39109 /-

15. P/F class room almirah consisting of 1" thick solid flush with deodar wood lipping 1/4" thick all around(sterling made) fixed in deodar wood frame 3"x1" i/c ful hinges C.P. fitting with RCC (1:1-1/2:3) shelves 1-1/2" (40mm) thick i/c 3 coats of painting

	2x4x5	=	40 Sft	@	819.3 P.Sft	32772 /-

16. P/F MS box section of 16SWG, having frames of 2"x1-1/2", leave frame of T-type box section of 2"x1"x1", with ½"x1/2" box section using, Ushaped rubber for fixing 5mm thick glass panes i/c the cost of fixing of 24 SWG wire guaze on inner side by means of ½"x1/8" MS flat patti, MS grill fitted with in the window frame and screws including hinges, brass handles and painting 3coats. Complete in all respect

W:	3x3-1/2x4	=	42 Sft	@	1342.75 P Sft	56396 /-

17. Preparing surface to doors and windows any type i/c the edges 3 coat new surface

Al	2x2x4x5	=	80 Sft	@	2770.70 %Sft	2217 /-

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

Motor Found	1x3-1/2x3-1/2x2	=	25 Cft			
Beam	28x3/48	=	2 Cft			
	Total	=	27 Cft	@	38219 %Cft	10319 /-

19. 1/2" thick cement plaster 1:4 upto 20' ht =

Motor Found	1x2(2-1/2+2-1/2)x2	=	20 Sft			
Parapit	2x14-1/4x3-1/2	=	100 Sft			
	2x12-3/4x3-1/2	=	89 Sft			
Girder Pillars	2x2(2-1/4+3/4)x2	=	24 Sft			
Al: Side	2x2x2-1/4x5	=	45 Sft			
	2x1x2-1/4x4-1/4	=	19 Sft			
inside	1x2(12+12)x11-1/2	=	552 Sft			
	Total	=	849 Sft	@	3285.45 %Sft	27893 /-

20. Cement Pointing struck Joints, on walls, upto 20' height
a) ratio 1:2 i/c Red Oxide Pigment

	o/s room	4x14-1/4x15-1/2	=	884	Sft	@	3573.2 %Sft	31587 /-
21.	Single layer of tile 9" x 4-1/2" laid over 4" earth and 1" mud plaster without bhoosa grouted with cement sand 1:3 on top of RCC roof slab provided with 34LBS per % Sft bitumen coating sand blinded . Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	1x12x12	=	144	Sft	@	12070.9 % Sft	17382 /-
22.	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement ii) ½"(13 mm) thick							
	In side	1x2(12+12)x1/2	=	24	Sft	@	21437.00 % Sft	5145 /-
23.	Supply/filling sand under floors or plugging in walls							
	Room	1x12x12x1/3	=	48	Cft			
	Plinth	1x2(18-3/4+14-1/4)x2-1/4x1/3	=	49	Cft			
		Total:	=	**97**	**Cft**	@	2824.60 % Cft	2740 /-
24.	Khurra on roof 2'x2'x6"		=	1	No	@	865.75 Each	866 /-
25.	Providing and laying conglomerate flooring (two coat work) with top layer of ½"(13mm) thick wearing surface, consisting of one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:-							
i)	1-1/2" thick							
	L.Wall	2x20.25x3	=	122	Sft			
	S.Wall	2x14.25x3	=	86	Sft			
		Total	=	208	Sft	@	7703.45 % Sft	16023 /-
ii)	2" thick							
	Room Floor	1x12x12	=	144	Sft			
		1x4x1-1/8	=	5	Sft			
		Total	=	**149**	**Sft**			
	Deduct:	4-1/2x4-1/2	=	20	Sft			
		NET:	=	**129**	**Sft**	@	9745.85 % Sft	12572 /-
26.	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/waste pipemake of dadex /Popular/Beta/BBJ 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 32.5/SN-8 4"(110 mm)		=	13	Rft	@	260.70 P Rft	3389 /-
27.	Distempering new surface three coats		=	528	Sft	@	6170.80 % Sft	32582 /-
29.	S /E of Ceiling Rose (149/30)		=	2	Nos	@	67.65 Each	135 /-
30.	S /E of Holder (Bakelite) large size (149/39)		=	1	No	@	104.85 Each	105 /-

31.	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete. single rod (40 watts) with one choke and one starter.	=	1	No	@	1235.30	Each	1235 /-
32.	S/E of M.S sheet board. 9"x4" (146/14)	=	1	No	@	489.30	Each	489 /-
ii)	7"x4"	=	2	Nos	@	380.50	Each	761 /-
33.	S/E switches 5 Amp (Piano) (149/31(ii))	=	5	Nos	@	73.30	Each	367 /-
34.	S/E of 3-pin 5 Amp wall socket (149/34)	=	1	No	@	91.50	Each	92 /-
35.	S/E of PVC pipe for wiring recessed. 3/4" dia (143/3(ii) 1x4x12 48x0.3048(20mm)	=	48	Rft	@	83.70	P Rft	4018 /-
36.	S/E of PVC Insulated Copper Conductor Cable in prelaid PVC Pipe (144/10-a)							
i)	3 /0.029"	=	120	Rft	@	26.10	P Rft	3132 /-
ii)	7 /0.029"	=	60	Rft	@	41.15	P Rft	2469 /-
37.	S/E of 03-Pin Plug & Switch combined 10-15-Amps (149/36)	=	1	No.	@	151.10	Each	151 /-
38.	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, but excluding erection in position. (P/Hoisting girders 4" x 8" weighing 18 lbs / Rft. (14 Rft x 18 x 0.454) (155/10)	=	114	Kg	@	33882.00	%Kg	38625 /-
39.	S/E of A.C. ceiling fan 56" sweep	=	1	No	@	~~7000.00~~ 6500.00	Each	~~7500~~ 6500 /-
40.	Erection of A.C Ceiling Fan (154/83)	=	1	No	@	469.65	Each	470 /-
41.	Earthing of Iron /Aluminum Clad Main Switches	=	2	No	@	9635.15	P.Job	19270 /-

Total ~~943094~~ /- 906162/-

Say ~~943100~~ /- 906200/-

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.2
MULTAN..

COLLECTING TANK 14`-0" DIA

2nd Bi-Annual 2022

1.	Excavation of well in dry upto 20' below G.level & disposal of soil within one chain.Ordinary Soil							
	0'-5' depth	1x22/7x(19)²x1/4x5	=	1418 Cft	@	7,571.45 %oCft		10,736 /-
	5.1'-10' depth	1x22/7x(19)²x1/4x5	=	1418 Cft	@	7,907.75 %oCft		11,213 /-
	10.1`-15` depth	1x22/7x(19)²x1/4x5	=	1418 Cft	@	8,896.20 %oCft		12,615 /-
	15.1`-20` depth	1x22/7x(19)²x1/4x2	=	567 Cft	@	10,210.80 %oCft		5,790 /-
2.	Cement concrte brick work stone ballast 1-1/2" to 2" gauge in foundaiton and plinth (Ratio 1:6:12).							
		1x22/7x(19)²x1/4x1/2	=	142 Cft	@	21217.40 % Cft		30,129 /-
3.	RCC 1:2:4 work in slab of raft /strip foundation base slab of columns and retaining walls and other structural members laid in position not requiring from work etc complete							
	Base Raft	1x22/7x(19)²x1/4x1/2	=	284 Cft				
	Core Wall	1x22/7x(15-1/8)²x3/8x8	=	143 Cft				
		Total:	=	427 Cft	@	460.05 P.Cft		196,441 /-
4.	Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastenings for binding wire and labour charges for bending of steel reinforcement (also includes removal of rust from bar. (Deformed bars)							
		6.75lbs /Cft of Quantity as Item No. 3						
	Above	1 x 1 x 427 x 6.75 x 0.454	=	1309 Kg	@	31451.40 % Kg		411,699 /-
5.	Pacca brick work in 1:4 c/s mortar in other then buidling							
	I/S Core Wall	1 x 3.143 x 14.4 x 0.38 x 8	=	136 Cft				
	O/S Core Wall	1 x 3.143 x 16.3 x 0.75 x 8	=	306 Cft				
	Above	1 x 3.143 x 15.1 x 1.13 x 2	=	107 Cft				
				549.00 Cft	@	31483.10 % Cft		172,842 /-
ii)	From 10` to 20` height							
		1 x 3.143 x 15.1 x 1.13 x 7.5	=	401 Cft				
				401 Cft	@	32845.35 % Cft		131,710 /-
6.	Extra brick work in sterning of well or any other circular masonary							
		Same Quantity as Item No. 5 (i) & (ii)						
		1 x 1 (549 + 401)	=	950 Cft	@	2,749.20 % Cft		26,117 /-
7.	P /F Terrace Railing of 2" i/d conduit pipe 16-SWG welded with 5/8"x5/8" Sq Bars 2.75ft height fixed at 5" c/c in RCC Slab with suitable arrangement complete in all respects as per design and drawing							
		1 x 3.143 x 15.1	=	48 Cft				
				48.00 Cft	@	1599.25 P.Rft		76,764 /-
8.	Cement Concrete Plain (Ratio 1:2:4) i/c placing compacting finishing and curing etc complete i/c screening and washing of stone aggregates							
	For Railing	1 x 3.14 x 15.1 x 1.13 x 0.5	=	27 Cft				
				27.00 Cft	@	38219.00 %Cft		10,319 /-
8A	Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)							
	Item No.3	427x0.88	=	376 Cft				
	Item No.8	27x0.88	=	24 Cft				
		Total:	=	400 Cft	@	9742.55 %.Cft		38,970 /-
9.	1/2" thick cement sand plaster 1:4 on walls upto 20' height							

		1	x 3.14	x 16.25	x 4.00	=	204 Sft			
		1	x 3.143	x 14.00	x 18.00	=	792 Sft			
							996 Sft	@	3285.45 %Sft	32,723 /-

10. P /L Topping of Cement Concrete (Ratio 1:2:4) i/c surface finishing and dividing into panels (3" thick)

	1	x 3.143	x 14	x 14.00	x 0.25	=	154 Cft	@	11943.70 % Cft	18,393 /-

11. Rehandling of earth work lead upto one kassi

Same quantity as Item No. 1 (i), (ii), (iii) & (iv)

Above	1x(1418+1418+1418+567)	=	4821 Cft	@	2547.60 % Cft	12,282 /-

12. P /L Watering, Ramming Dry Brick Ballast 1-1/2" to 02" gauge mixed with 25% sand for floors foundation complete in all respects

Under Apron	1	x 3.143	x 20.3	x 4.00	x 0.33	=	85 Cft	@	9417.20 % Cft	8,005 /-

13. Extra for making and finishing benching floor work in Manhole Chamber with 1/8" thick cement finish

Bottom	1	x 3.143	x 14	x 14.00	x 0.25	=	154 Sft	@	2976.75 %Sft	4,584 /-

14. Applying floating coat of cement 1/32" thick

I/S Wall	1	x 3.143	x 14	x 18.00	=	792 Sft	@	1876.70 %Sft	14,863 /-

15. Brick on edge flooring laid in (Ratio 1:6) cement sand mortar under a bed of 3/4" thick cement sand mortar

Apron	1	x 3.143	x 20.3	x 4.00	=	255 Sft	@	8095.8 %Sft	20,644 /-

16. P /F 1-1/4"x1-1/4"x3/16" L-Iron Steps in Manhole Chamber i/c carriage and setting the same in work to correct lines and levels

I /S	1	x 18	=	18 Nos.	@	594.95 Each	10,709 /-

Total **1,257,548** /-

Say Rs 1257500 /-

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.2
MULTAN..

SCREENING CHAMBER 8'X4' & 10' DEEP (DISPOSAL SYSTEM)

2nd Bi-Annual 2022

1.	Excavation in open cutting for sewer and manhole as shown in the drawing without shuttering. etc: complete.							
	0'-7' depth	1x11.75x7.75x7	=	637 Cft	@	11770.45 %oCft	7,498	/-
	7.1'-15' depth	1x11.75x7.75x2.75	=	250 Cft	@	16932.3 %oCft	4,233	/-
2.	Cement concrte brick work stone ballast 1-1/2" to 2" gauge in foundaiton and plinth (Ratio 1:6:12).							
		1x11.75x7.75x0.75	=	68 Cft	@	21217.40 % Cft	14,428	/-
3.	Pacca brick work in 1:4 c/s mortar in other then buidling							
		1 x 2 x 16.3 x 1.13 x 10	=	366 Cft				
		Total		366.00 Cft	@	31483.10 % Cft	115,228	/-
4.	RCC 1:2:4 work in slab of raft /strip foundation base slab of columns and retaining walls and other structural members laid in position etc complete							
	Base Raft	1x10.25x6.25x.42	=	27 Cft				
		Total:	=	27 Cft	@	460.05 P.Cft	12,421	/-
4A	Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)							
	Item No.4	27x0.88	=	24 Cft				
		Total:	=	24 Cft	@	9742.55 %Cft	2,338	/-
5.	Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastenings for binding wire and labour charges for bending of steel reinforcement (also includes removal of rust from bar. (Deformed bars)							
		6.75lbs /Cft of Quantity as Item No. 4						
	Above	1 x 1 x 27 x 6.75 x 0.454	=	83 Kg	@	31451.40 % Kg	26,105	/-
6.	1/2" thick cement sand plaster 1:4 on walls upto 20' height							
		1 x 2.00 x 16.50 x 3.00	=	99 Sft				
		1 x 2.000 x 12.00 x 10.00	=	240 Sft				
		Total		339 Sft	@	3285.45 %Sft	11,138	/-
7.	P /L Topping of Cement Concrete (Ratio 1:2:4) i/c surface finishing and dividing into panels (3" thick)							
		1 x 1 x 1 x 8.00 x 4	=	32 Sft	@	11943.70 % Cft	3,822	/-
8.	Extra for making and finishing benching floor work in Manhole Chamber with 1/8" thick cement finish							
		1 x 1 x 1 x 8.00 x 4	=	32 Sft	@	2976.75 % Sft	953	/-
9.	Applying floating coat of cement 1/32" thick							
	I/S Wall	1 x 2 x 12 x 10.00	=	240 Sft	@	1876.70 %Sft	4,504	/-
10.	Rehandling of earth work lead upto one kassi							
	Above	1x(637+50)	=	887 Cft	@	2547.60 % Cft	2,260	/-
11.	P /F 1-1/4"x1-1/4"x3/16" L-Iron Steps in Manhole Chamber i/c carriage and setting the same in work to correct lines and levels							
	I /S	1 x 8	=	8 Nos.	@	594.95 Each	4,760	/-
12.	P /F 6" thick RCC manhole cover with T.shaped C.I frame 24" dia complete in all respect.							
		1 x 2	=	2 Nos.	@	2055.65 Each	4,111	/-

13. P /L Watering, Ramming Dry Brick Ballast 1-1/2" to 02" gauge mixed with 25% sand for floors foundation complete in all respects

1	x	2	x	16.3	x	3.00	x	0.333	=	32 Cft				
1	x	2	x	6.25	x	3.00	x	0.333	=	12 Cft				
								Total	=	44 Cft	@	9417.20	% Cft	4,144 /-

14. Brick on edge flooring laid in (Ratio 1:6) cement sand mortar under a bed of 3/4" thick cement sand mortar

1	x	2	x	16.3	x	3.00			=	98 Sft				
1	x	2	x	6.25	x	3.00			=	38 Sft				
								Total	=	136 Sft	@	8095.8	%Sft	3,076 /-

15. Providing and fixing in position M.S screen, grating consisting of frame of M.S L-Iron 2"x2"x3/8" , 3/4" MS bar 2" c/c complete in all respect as approved by the engineer incharge.

1	x	1	x	4	x	12.00			=	48 Sft	@	1500	%Sft	72,000 /-

Total 293,019 /-

Say Rs 293000 /-

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer,
Buildings Division No.2
MULTAN..

DETAIL OF PUMP FOUNDATION

2nd Bi-Annual 2022

1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). b) in ordinary soil.			
	4-1/2x4-1/2x1	=	**20 Cft**	
			@ 10712.6 %0Cft	214
2	Dry rammed brick or stone ballast, 1½ to 2" gauge.			
	4-1/2x4-1/2x1/2	=	**10 Cft**	
			@ 9035.40 %Cft	904
3	RCC in Slab of rafts /strip foundation base slab etc or other structure not requiring from work i.e. horiznotal shuttering (Type "C" (Ratio 1:2:4)			
	4-1/2x4-1/2x1	=	**20.25 Cft**	
			@ 460.05 P.Cft	9,316
4	Fabrication of Mild Steel Reinforcement for Cement Concrete i/c cutting bending laying in position (Deformed Bars Grade 40)			
	2x2x8x4.67	=	**149 Rft**	
	149x0.375x.4536	=	**25 Kg**	
			@ 31451.40 %Kg	7,863
			Total Rs:	**18,297**
			Say Rs:	**18,300**

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

DETAIL OF FORCE MAIN PUMP TO MAIN SEWER LINE

2nd Bi-annual 2022

1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, 0 ft. to 7.0 ft									
	12" dia									
	Force Main line	1	x	60	x	3	x	(3+7)/2	900 Cft	
								Total:- =	**900 Cft**	
								@	6925.65 ‰ Cft =	6,233
2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.									
	Force Main line	1	x	60	x	3	x	0.5	= 90 Cft	
								Total =	**90 Cft**	
								@	4488.00 %Cft =	4,039
3	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/ Popular/ HL or equivalent, in trenches, as approved & directed by th engineer incharge, complete in all respects. PN-16 (SDR-11) 315 mm									
i	**315 mm**									
	Force Main line	1	x	60					60 Rft	
								Total =	**60 Rft**	
								@	4252.35 P.Rft =	255,141
4	Constructing of Manhole/ Sump 2'-6" x 4'-0" (Internal Size) including PCC 1:6:12, 6" thick, brick work in 1:6' mortar and 9" thick, plastered inside in 1:4 cement sand and 4" thick RCC slab 6" c/c 3/8" steel bars G-40 including Manhole cover , complete in all respect as approved by the Engineer Incharge. .									
	4 feet deep								= 1 Nos.	
								Detail Attached	@ 43100 Each =	43,100
5	Rehandling of earth work lead upto one kassi									
		1	x	900					= 900 Cft	
								Total =	**900 Cft**	
								@	2547.60 %0.Cft =	2,293
6	Providing and fixing cast iron special of B.S.S. Class 'B' (such as bend, tee cross collar, reducer, tail piece, flanged spigot, cap, flanged socket, taper, angle branch, plug etc.) for cast iron pipe line , complete C.I. flanged specials, with flanged and flanged joints:-C.I. flanged specials, with flanged and flanged joints:-									
								=	70 Kgs	
								@	109.70 P.Kg =	7,679
									Total;=	**318,485**
									Say:- =	**318,500**

SUB ENGINEER

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.2
MULTAN..

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

Provision/Installation of Electrical Equipment.

S.#	Description	Qty:	Unit	Rate	Amount
A	**L.T. (LV) SUB-STATION EQUIPMENT:**				
1	**Construction of ELECTRICAL ROOM**	1		As per requirement	
2	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock,Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed				
	MDB				
	(i) LT Switchboards				
	(a) 2.50 Ft deep				
	(i) 1200A (3.0x6'x2.5')	45	Cft	4,377.05	**196,967**
	Incoming From 630KVA Transformer				
	1 Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 1200A(50 KA) 1*1=1	1	Each	234,034.30	**234,034**
	(b) Tripple Pole 500A(36 KA) 1*1=1	1	Each	62,434.30	**62,434**
	(c) Tripple Pole 300A(36 KA) 1*1=1	1	Each	62,434.30	**62,434**
3	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
	MDB-1(For PDBs)				
	Incoming From Transformers				
	(i) LT Switchboards				
	(b) 12" deep				
	(i) 300A(3.0x6'x2.5')	45	Cft	3,438.40	**154,728**
	Incoming breakers for MDB-1				
	1 Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 300A(36 KA) 1*2=2	2	Each	62,434.30	**124,869**
	Outgoing breakers for MDB-1				
	(a) Tripple Pole 150A(36 KA) 1*2=2	2	Each	18,094.30	**36,189**
	(b) Tripple Pole 150A(36 KA) 1*2=2	2	Each	18,094.30	**36,189**
	(c) Tripple Pole 200A(36 KA) 1*2=2	2	Each	39,814.30	**79,629**
4	P/F floor mounted ATS (Auto Transfer Switch) panel board , fabricarted with 14S WG M.S sheet (Indoor Type) duly painted with 100 microns powder coated paint in approved colour , front access ,extendable,insulation class of 600 volts IP-44, incomimg & outgoing connections from bottom with flexible copper cable suitable for 415 VAC, 3-phase 4 wire, 50 HZ TPN&E system having rated service, short circuit breaking capacity at 400VAC conformimg to IEC-947-2 to accomodate given no of circuit components, instruments & accessories,assembled & wired with Electrolitic Copper bus bars at 50 deg and cables duly cleaned down to bare shining metal phosphate, manual change Over i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar,CTs,Contactors,Relays, Door Earthing, Brass glands complete in all respects as approved and directed by the Engineer Incharge. (Breakers wil be paid additionally).				
	ATS (for 200 KVA Generator Transformer)				
	Incoming from Generator and ATS for dual supply				
	(b) 2.00 Ft deep	1	Each	1,833,923.45	**1,833,923**
	(ii) 200KVA				
	Incoming Breakers For ATS (for 100 KVA Generator and Transformer)				
	1 Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 300A(36 KA) (1* 1=1)	1	Each	62,434.30	**62,434**
	Outgoing Breakers For ATS (for 100 KVA Generator and Transformer)				
	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 63A(36 KA) (3* 3=9)	9	Each	17,434.30	**156,909**

S.#		Description	Qty:	Unit	Rate	Amount
5		P/F floor mounted ATS (Auto Transfer Switch) panel board , fabricarted with 14S WG M.S sheet (Indoor Type) duly painted with 100 microns powder coated paint in approved colour , front access ,extendable,insulation class of 600 volts IP-44, incomimg & outgoing connections from bottom with flexible copper cable suitable for 415 VAC, 3-phase 4 wire, 50 HZ TPN&E system having rated service, short circuit breaking capacity at 400VAC conformimg to IEC-947-2 to accomodate given no of circuit components, instruments & accessories,assembled & wired with Electrolitic Copper bus bars at 50 deg and cables duly cleaned down to bare shining metal phosphate, manual change Over i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar,CTs,Contactors,Relays, Door Earthing, Brass glands complete in all respects as approved and directed by the Engineer Incharge. (Breakers wil be paid additionally).				
		ATS (for 100 KVA Generator Transformer)				
	(b)	**Incoming from Generator and ATS for dual supply**				
	(ii)	2.00 Ft deep				
		100KVA				
		Incoming Breakers For ATS (for 100 KVA Generator and Transformer)	1	Each	801,447.70	**801,448**
	1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 200A(36 KA) (1* 2=1)				
		Outgoing Breakers For ATS (for 100 KVA Generator and Transformer)	1	Each	39,814.30	**39,814**
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the				
	(a)	Tripple Pole 63A(36 KA) (3* 3=9)				
6		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately)	9	Each	17,434.30	**156,909**
		PDBs (For OPD)				
	(a)	12" deep				
		150A (3'x3'x12")				
		Incoming Breakers for PDBs (For OPD)				
	1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.	18	Cft	13,809.80	**248,576**
	(a)	Tripple Pole 150A(36 KA) (1*4=4)				
		Outgoing Breakers for PDBs (For OPD)	4	Each	18,094.30	**72,377**
	2	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a)	Tripple Pole 63A(10 KA) (1*4=4)	4	Each	11,434.30	**45,737**
	(b)	Single Pole 32A(10 KA) (5*3=15)	15	Each	1,299.95	**19,499**
	(d)	Single Pole 16A(10 KA) (6*3=18)	18	Each	1,299.95	**23,399**
7		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately)				
		PDBs (For Emergency & O.T & Admin Block & PKLI)				
	(a)	12" deep	36	Each	5,146.40	**185,270**
		150A (3'x3'x12")				
		Incoming Breakers for PDBs (For Emergency & O.T & Admin Block & PKLI)				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.	4	Each	18,094.30	**72,377**
	(a)	Tripple Pole 150A(36 KA) (1*4=4)				
		Outgoing Breakers for PDBs (For Emergency & O.T & Admin Block & PKLI)				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.	4	Each	17,434.30	**69,737**
	(a)	Tripple Pole 63A(36 KA) (1*4=4)	24	Each	1,299.95	**31,199**
	(b)	Single Pole 32A(10 KA) (6*4=24)	12	Each	1,299.95	**15,599**
	(c)	Single Pole 16A(10 KA) (3*4=12)				
8		P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately)				
		PDBs (For Labour Room)	4	Each	5,146.40	**185,270**
	(a)	12" deep				
		200A (3'x3'x12")				
		Incoming Breakers for PDBs (For Labour Room)				

S.#		Description	Qty:	Unit	Rate	Amount
C		**EMBEDED FITTINGS**				
	1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d	**28,648**	rft	96.85	**2,774,559**
	2	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. iv) 32 mm i/d	**13,369**	rft	123.00	**1,644,387**
	3	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. vi) 50 mm i/d	**7,639**	rft	186.05	**1,421,236**
D		**SWITCHES & BOARDS**				
	1	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge (i) Small	**764**	Each	137.40	**104,974**
	2	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge (ii) Large	**191**	Each	161.40	**30,827**
	3	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 (a) One way Gange Switch Small. (iv) 04 Gange	**382**	Each	913.80	**349,072**
	4	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 (a) One way Gange Switch Small. (viii) Three Pin Power Plug 15-32 Amp	**191**	Each	757.80	**144,740**
	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 (a) One way Gange Switch Large. (iii) 06 Gange	**191**	Each	1,165.80	**222,668**
	6	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 (a) One way Gange Switch Small. (iv) Three pin Light Plug 10/13 Amp	**191**	Each	535.80	**102,338**
E		**Exhaust Fan**				
	1	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" sweep	**20**	Each	4,454.75	**89,095**
					TOTAL	**20,191,870**
					Add 3% Contingency	**605,756**
					TOTAL	**20,797,626**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.II
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJAEAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

DETAILED ESTIMATE FOR THE CONSTRUCTION OF GATE AND GATE PILLAR AND PROVISION OF STEEL GATE (16'X6') SIZE WITH WICKET GATE

2nd Bi-Annual 2022

1. Excavation in foundation of bridges and other structure i/c dag belling dressing etc: complete.(By Excavator)

3x4-3/4x4-3/4x4 = 270.75 Cft

@ 8062.8 %oCft 2,183 /-

2. P/L Cement concrte brick work stone ballast 1-1/2" to 2" gauge (Ratio 1:6:12).

3x4-3/4x4-3/4x1/2 = 34.00 Cft

@ 21217.40 % Cft 7,214 /-

3. P/L Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining wall, etc and other structural members other than thosa mentioned in 5(a) above not requiring from work (i.e. horizontal Shuttering) complete in all respect:-

(1) Type C (Nominal Mix 1:2:4)

3x3-3/4x3-3/4x1 = 42.00 Cft
3x1.5x1.5x14.5 = 97.88 Cft
Total = 139.88 Cft

@ 460.05 P.Cft 64,352

3A Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)

(1) Type C (Nominal Mix 1:2:4)

Item No. 3 139.88x0.88 = 123.09 Cft
Total = 123.09 Cft

@ 9742.55 %.Cft 11,992

4. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastenings for binding wire and labour charges for bending of steel reinforcement (also includes removal of rust from bar. (Deformed bars) G-40

139.88x6.75x.454 = 429 Kg

@ 31451.40 % Kg 134,927 /-

5. P/Brick work other than building upto 10' height cement sand mortar ratio 1:4

3x3x3x14-1/2 = 391.50 Cft
Top Cap 3x3.5x3.5x0.5 = 18.38 Cft
D/d RCC 3x1.5x1.5x14.5 (-) 98 Cft
Balance = 312 Cft

@ 31483.10 %Cft 98,227

6.	Providing and laying fair face Gutka cladding laid in(1:2) cement / red posso mortar having 1/4" thick groove finishi/c cost of 8 SWG wirein shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing including carriage charges complete in all respect as approved and directed by the Engineer Incharge.2-1/4"x2-1/4"x9" Size.					
		3x4x3x14-1/2 =	522.00 Sft			
				@	222 P.Sft	115,884
7.	1/2" thick Cement Sand Plaster (1:4) upto 20' Height					
	Top Cap	3x3.5x3.5 =	36.75 Sft			
		3x4x3.5x0.75 =	31.50 Sft			
		Total: =	**68.25 Sft**	@	3285.45 %Sft	2,242
8.	Rehandling of Earth with single throw of kassi					
	Top Cap	270.75x2/3 =	180.50 Cft			
		Total: =	**180.50 Cft**	@	2547.6 %oCft	460
9.	Making and Fixing steel grated door with 1/16" thick sheeting i/c angle iron frame 2"x2"x3/8" and 3/4" square bars 4" (100mm) center to center with locking arrangement					
		1x16x7 =	112.00 Sft			
		1x4x7 =	28.00 Sft			
		Total =	140.00 Sft			
				@	1935.20 P.Sft	270,928
10.	Preparing and surface and painting door and windows any type on new surface 3-coats					
		2x16x7 =	224.00 Sft			
		2x4x7 =	56.00 Sft			
		Total =	280.00 Sft			
				@	2770.70 %Sft	7,758
11.	Cement concrete plain i/c placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:2:4					
		3x3x3x1/4 =	6.75 Cft			
				@	38219 %Cft	2,580
					Total	**718,747** /-
	Add 03 % Contingency					**21,562**
					Total	**740,309** /-
				Say	**Rs:**	**740,300** /-

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

PATHWAY

2nd Bi-Annual 2022

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

2.000	x	100.00	x	1.50	x	2 =		600	Cft	
					Total	=		**600**	**Cft**	
						@	10712.60	0%cft		6,428

2 Dry rammed brick or stone ballast 1 1/2" to 2" guage

2.000	x	100.00	x	1.50	x	0.75 =		225	Cft	
					Total	=		**225**	**Cft**	
						@	9035.4	%cft		20,330

3 Pacca Brick Work in Cement Sand Mortor in other than Building (1:6)

2	x	99.625	x	1.125	x	0.250	=	56	cft	
2	x	99.250	x	0.750	x	4.000	=	596	Cft	
						Total	=	**652**	**Cft**	
							@	29810.30	%cft	194,363

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

2	x	99.3	x	0.750	x	0.083	=	12	Cft	
						Total	=	**12**	**Cft**	
							@	25423.20	%cft	3,051

5 1/2" thick cement plastr 1 :4 upto 20' height.

2 x	99.30	x	4.00	=	794 Sft				
			Total	=	**794 Sft**				
				@	3285.45 %.Sft	=			26,086

6 P/L Cement concrete plan 1 : 2 : 4 i/c finishing

2 x	99.30	x	1.125	x	0.125	=	28 Cft		
				Total	=	**28 Cft**			
					@	38219.00 %.Cft	=		10,701

7 Earthowrk in ordinary soil for embankments lead upto 03 mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects 90% maximum modified AASHO dry density.

16.00 x	99.3 x	2.500	=	3,972	cft			
		Total =		**3,972**	**cft**			
			@	16810.70	%cft			66,772

8 Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-
e) Ratio 1: 6: 18

16.00 x	99.3 x	0.250	=	397	cft			
		Total =		**397**	**cft**			
			@	38219.00	%cft			151,729

9 Carriage of subsequent stone aggregate and bajri (sakhi sarwar query)

28.00	x	0.880	=	25 Cft				
397.00	x	0.880	=	349 Cft				
		Total	=	**374 Cft**				
			@	9742.55 %.Cft	=			36,437

10 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 . (50% Grey / 50% Coloured) b) 60-mm thick

16.00 x	99.3	=	1,589	Sft				
	Total =		**1,589**	**Sft**				
		@	156.55	P.sft				248,758

Total = 764,655

Sub Engineer

Sub-Divisional Officer
Buildings Sub-Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

1 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.

O.T							
D-1	2	x	4	x	5	=	40 Rft.
D-2	8	x	4	x	5	=	160 Rft.
D-3	9	x	4	x	5	=	180 Rft.
D-4	2	x	4	x	5	=	40 Rft.
D-5	1	x	4	x	5	=	20 Rft.
Openings	1	x	4	x	5	=	20 Rft.
Main Building (A)							
O.T.S	2	x	4	x	5	=	40 Rft.
O.T.S	2	x	4	x	5	=	40 Rft.
Openings							
D-0	12	x	4	x	5	=	240 Rft.
D-1	9	x	4	x	5	=	180 Rft.
D-2	6	x	4	x	5	=	120 Rft.
D-3	8	x	4	x	5	=	160 Rft.
D-4	13	x	4	x	5	=	260 Rft.
D-5	4	x	4	x	5	=	80 Rft.
Openings	2	x	4	x	5	=	40 Rft.
Openings	2	x	4	x	5	=	40 Rft.
	39	x	4	x	5	=	780 Rft.
Main BuildingStaff Portion							
Openings							
D-0	2	x	4	x	5	=	40 Rft.
D-2	5	x	4	x	5	=	100 Rft.
D-3	4	x	4	x	5	=	80 Rft.
D-4	4	x	4	x	5	=	80 Rft.
D-5	1	x	4	x	5	=	20 Rft.
Openings	1	x	4	x	5	=	20 Rft.

Total:- = 2780 Rft.

@ 580.00 P.Rft 1,612,400

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

Column	12	x	2	x(	2	+	2	)x	6	=	576 Sft.

Total:- = 576 Sft.

@ 1060.00 P. Sft 610,560

3 Making And Fixing Stainless Steel Sheet 20-SWG upto height of strecher or half of door height I/C Fixing With Screws On Door Complete In All Respects And As Approved By The Engineer Incharge

O.T											
D-4	2	x	2	x	4	x	4			=	64 Sft.
D-5	1	x	2	x	6.75	x	4			=	54 Sft.
Main Building (A)											
D-4	13	x	2	x	4	x	4			=	416 Sft.
D-5	4	x	2	x	6.75	x	4			=	216 Sft.
Main BuildingStaff Portion											
D-4	4	x	2	x	4	x	4			=	128 Sft.
D-5	1	x	2	x	6.75	x	4			=	54 Sft.
Emergency											
D-6	10	x	2	x	5	x	4			=	400 Sft.

Total:- = 1332 Sft.

@ 1075.00 P. Sft 1,431,900

4 P/F False ceilling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.

O.T							
O.T	2	x	24.625	x	15 7/8	=	782 Sft.
Gyne O.T	1	x	15	x	11 5/8	=	174 Sft.
Eye O.T	1	x	15	x	11 5/8	=	174 Sft.
Main Building (A)							

Emergency														
O.T					1	x	20	x	20			=	400 Sft.	
											Total:-	=	**1530 Sft.**	
												@	360.00 P.Sft	550,800

5 P/F Of Lead Lining 1.5mm Thick Lead Sheet With Wall For Radiation Protection Upto Roof Height As Aper Instruction & Covering With Wall Panelling I/C Frame Complete In All Respect As Approved And Directed By The Engineer Incharge Also Approved The Radiation Protecting Agency Etc.

Labor room and O.T Block														
X-Ray room	1	x	2	x(	13	+	19	)x 12				=	768 Sft	
											Total:-	=	**768 Sft**	
												@	1269.00 P.Sft	974,592

6 Supply and installation premimum graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick 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

Labor room and O.T Block														
X-Ray room	1	x	2	x(	13	+	19	)x 12				=	768 Sft	
											Total:-	=	**768 Sft**	
												@	800.00 P.Sft	614,400

7 Supply and installation anti microbial Hygenic Epoxy 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														
O.T					2	x	24.625	x	15 7/8			=	782 Sft.	
Gyne O.T					1	x	15	x	11 5/8			=	174 Sft.	
Eye O.T					1	x	15	x	11 5/8			=	174 Sft.	
Emergency														
O.T					1	x	20	x	20			=	400 Sft.	
O.T														
O.T	2	x	2	x(	24.625	+	15 7/8	)x 12				=	1944 Sft	
Gyne O.T	1	x	2	x(	15	+	11 5/8	)x 12				=	639 Sft	
Eye O.T	1	x	2	x(	15	+	11 5/8	)x 12				=	639 Sft	
Emergency														
O.T	1	x	2	x(	20	+	20	)x 12				=	960 Sft	
											Total:-	=	**5712 Sft**	
												@	550.00 P.Sft	3,141,600

8 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

O.T														
D-1					2	x	2.5	x	1	x	7	=	35 Sft.	
Main Building (A)														
D-0					12	x	2	x	1	x	7	=	168 Sft.	
D-1					9	x	2.5	x	1	x	7	=	158 Sft.	
Main Building(Staff Portion														
D-0					2	x	2	x	1	x	7	=	28 Sft.	
											Total:-	=	**389 Sft.**	
												@	1040.00 P.Sft	404,560

9 Providing and fixing high quality LED SMD Panel Light 2 ft×2 ft of 48 watt/4000 k wattage anf Luminous flux with Polystyrene bowl/prismatic cover made of Philips as approved and direced by the Engineer Incharge.

					222	x	1					=	222 Nos.	
											Total:-	=	**222 Nos.**	
												@	14820.00 Each	3,290,040

10 Supply and Installation of Philips LED Bulb 24W E27 3000K 230V A80 1CT/6 APR (Philips made) Complete in all respects as approved by the Engineer Incharge

					764	x	1					=	764 Nos.	
											Total:-	=	**764 Nos.**	
												@	1150.00 Each	878,600

11 Providing and Fixing of Bracket Fan 18" (As per approved manufacturers) complete with electric connection a approved by the Engineer Incharge.

111	x	1	=	111 Nos.
Total:-			=	**111 Nos.**
			@	5300.00 Each 588,300

12 Supply and installation of Phillips or Equilent, 12-Watt SMD light 3" dia of approved manufacturer i/c cost of all labour & material complete in all respect as approved by the Engineer Incharge.

1	x	444	=	444 Nos.
Total:-			=	**444 Nos.**
			@	1150.00 Each 510,600

13 S/E A.C ceiling fan 56" sweep i/c regulaor.

1	x	222	=	222 Nos.
Total:-			=	**222 Nos.**
			@	6500.00 Each 1,443,000

Total	**Rs.**	=	**16,051,352**
Say	**Rs.**	=	**16,051,400**

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division No.02
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

WATER FILTERATION PLANT

1		Supplying, installing and testing of water purification plant 2000 LPH capacity conforming to standard specifications and quality of the purification plant before installation / execution. consisting of the following components complete, complete in all respect.		
No.		Item	Brand/Make	Justification
		Pre Filtration System	**Penta pure**	
1	1.1	Raw Water Feed Pump 1. HP	Origen /Europe	To provide 80 psi pressure as required for pre filtration
	1.2	Sand Filter (5.4 ft hight & 1.6 ft diameter FRP ,Fiber Reinforced Polyester) S22-D Media	Brand: Euro Tech wave cyber /Pentair, USA NSF Approved	Due brackish water stainless steel vessel is not suitable. FRP material is resistant to brackish water.
	1.3	Carbon Filter (Activated carbon[3] Filter (5.4 ft hight & 1.6 ft diameter FRP, Fiber Reinforced Polyester)	Brand: Euro Tech wave cyber /Pentair, USA NSF Approved	Due brackish water stainless steel vessel is not suitable. FRP material is resistant to brackish water
	1.4	Jumbo filter 20 (1 Micron) 2-Nos	Branded	Refine the filtered water up to 01micron
	1.5	Antiscalant system	Origen /Europe	To prevent the chocking of R.O. membranes.
		Fully Automatic Reverse Osmosis system (with following item- specifications)		
2	2.1	**Penta pure R O** Water treatment Capacity	2000 LPH	
	2.2	High Pressure R.O. Pump 2.5 hp power	Origen Europe/USA	For 100 PSI Pressure to membranes
	2.3	R.O. Membranes (BWW8"x40")	Tory FilmTec /Hydroanautics USA	To remove the salts& TDS Control.
	2.4	High Pressure Membrane Vessels[6]	wave cyber ppwt Euro Tech USA	S.S. Vessel is not suitable due brackish water.
	2.5	Digital controlled system	Origen Europe /Korea	For smooth operation Automatic of plant. Back Wash system to clean the
3		Gages Flow Meter TDS Meter Etc.	Italy/Taiwan /USA	checking of R.O. membranes Pressure and flow &TDS
4		Storage Tank 500 Gallon, Food grade Q-NO-3	Branded	PE Master tuff Smooth and continued supply of water
5		Piping, Fitting & etc.	Food grade UPVC	As per required
6		S S. Skid	Local	As per required
			1 to 8, complete se (including 16% G.S.T) 1 Set.	1
		1 to 8, complete se	1 Set	2,000,000
			Contractor Profit = 20%	400,000
			Total:	**2,400,000**
			Say:	**2,400,000**

Sub Engineer

Sub Divisional Officer,
Buildings Sub Division,
Shujabad

Executive Engineer
Buildings Division No.2
Multan

Superintending Engineer
Building Circle Multan

Penta Pure®

To

Executive Engineer,
Buildings Division No.2,
Multan

Details of Bottle water Plant (2000 LPH)

Numbers	Details	Qty	Price
1	Feed Water Pump (Brand New) Hualien/cnp Pumps	1	
2	Media Filter (FRP) EURO TECH 150 psi	1	
3	Carbon Filter (FRP) EURO TECH 150 psi	1	
4	Cartridge Filter housing Taiwan	4	
5	RO Membrane + Casing	2+1	
6	RO Pump (Brand New) Hualien/cnp Pumps Taiwan	1	
7	Water tank 500 GLN Master tuff	1	
8	UV sterilizer With American Lamp / Quartz	2	
9	Chemical Dozing Pump (Brand New) Italy	1	
10	Plant skid (MS) Complete UPVC fittings within plant	1	
11	Complete Media (Sand / Carbon)	1+1	
12	Complete Panel with Electric Panel / TDS meter / Pressure gages / flow meters / LP-HP switches / Solenoid valve etc.		

TOTAL COST OF RO PLANT

TOTAL COST OF RO PLANT Ex-Lahore
1-Complete unit with Branded product
Mentioned as above with local sand / gravels, carbon Media **Rs: 2000000/=**

85-Tample Road, Lahore, Www.pentapure.com.tw

Penta Pure®

1-Transportation at actual will be Paid by Customer.
2-Prices are without all taxes and Ex -Lahore.

01-ONLINE DOSING PUMP
One dosing pump is provided for the system for anti-scalant or biocides.

02-PRESSURE GUAGES
Stainless steel liquid filled low and high pressure gauges, low pressure in 2.5" diameter and high
Quantity: 3
Made : Germany

03-ONLINE FLOWMETER
Two online, panel mounted flow-meters are provided. One flow meter for permeate and other for rejected water.

04-HIGH PRESSURE CONCENTRATE VALVE
Heavy-duty high pressure regulator SS material is corrosion resistant, pre-adjusted at factory. This high pressure valve can be adjusted to maintain the desire high pressure out of the pressure pump and into the R.O membranes.

05-ONLINE TDS METER
This instrument is a combined control instrument of a Reverse Osmosis monitor and online. It can perform the operation test status control and online monitoring of water quality.

STANDARD DELIVERY TIME
Within 15to 20 days after confirm written order.

BUYER'S RESPONSIBILITY

1-Availability of raw water
2-Easy approach of site
3-Site clearance
4-Rigging arrangement if require
5-Main electric supply 3 ph
6-Plumbing materials
7- Drainage and all civil works
8- Residence & food for technicians at site

MOD OF PAYMENT
100-Percent Advance

Tasleem khan

0321 4464787

85-Tample Road, Lahore, Www.pentapure.com.tw

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

CARRIAGE OF SUBSIQUENT STONE AGGREGATE AND BAJRI (SAKHI SARWAR QUERRY)

2ND BI-ANNUAL 2022

Carriage						
1st Km					=	299.80
2nd Km					=	145.45
3rd Km					=	117.00
4th Km					=	85.40
5th Km					=	80.25
6th Km					=	79.10
7th Km					=	74.30
8th Km					=	73.60
9th Km					=	69.60
10th Km					=	65.75
11th Km to 161 Km	151	x	57.3		=	8652.30
				Total	=	9742.55

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Buildings Division no.2
Multan

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB, ONE AT THQ SHUJABAD, DISTRICT MULTAN" (ADP-2022-23 GS NO. 658)

LEAD CHART FOR SUB BASE, BASE & BAJRI

Quarry Sakhi Sarwar		
	114.00	Km
Sher Shah		
	7.00	Km
Nag Shah		
	40.00	Km
Start of work		
Total lead	161.00	Km
Say	161.00	Km

Quarry Kirana Hill		
	104.00	Km
Jhang		
	113.00	Km
Kabir wala		
	35.00	Km
NLC Chowk		
	15.00	Km
Bahawalpur Chowk		
	8.00	Km
Nag Shah		
	40.00	Km
Start of work		
Site + Av:		
Total lead	315.00	Km
Say	315.00	Km

Sub Engineer,

Sub Divisional Officer,
Building Sub Divisicn,
Shujabad.

RATE ANALYSIS FOR

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.

Unit = P.Rft
Taking = 04-Rft

2nd Bi-Annual 2022

Sr. No:	DESCRIPTION OF ITEMS		QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.						
1	P /O Stainless Steel Sheet 14-SWG	4x5/12	1.667 Sft			
	Add 5% Wastage		0.083 Sft			
			1.75 Sft	P.Sft	1010.00	1768
2	Self adhessive glue		0.2 Kg			
			0.2 Kg	P.Kg	150.00	30
3	Double sided tape	2x4	8 Rft			
			8 Rft	P.Rft	4.00	32
	TOTAL - A					**1830.00**
B) LABOUR						
	i) Labour For Cutting Strip		2 No.	Each	25	50.00
	ii) Labour for Bending Strip		1 No.	(L.S)	25	25.00
	iii) Labour for fixing Each angle		1 No.	(L.S)	20	20.00
	10% SUNDRIES					9.50
	TOTAL - B					**104.50**
	G- TOTAL (A+B)					**1934.50**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES					386.9
	OVER ALL TOTAL					**2321.40**

RATE PER Rft = 580.35

Say Rs: = 580/- P. Rft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
Multan

Superintending Engineer
Building Circle Multan

RATE ANALYSIS FOR

Supply and installation anti microbial Hygenic Epoxy 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.

(10x10=100-Sft) Take For Analysis Propose — 2nd Bi-Annual 2022

A. MATERIAL

1 Anti-static epoxy self leveling floor / dado PVC MFRP conductive epoxy flooring (imported) to aviodfriction with all chemical polish etc

1x10x10	=	100 Sft		
Add 5% wastage / over lapping	=	5 Sft		
Total		**105 Sft**		
		@	400 /- P.Sft	Rs: 42000/-

2 Fixing Charges

Total		**105 Sft**		
		@	40 /- P.Sft	Rs: 4200/-

Total Rs: 46200/-

Add 20% Contractor's Profit and OHC **9240/-**

Total Rs: 55440/-

Rate P.Sft = 50040 / 100 = 554/-

Say Rs: 550/- P.Sft

1 Certified that input rates of material and labour for the items are as per input rates displayed on web site of Finance Department 2nd Bi-Annual 2022

SUB ENGINEER

SUB DIVISIONAL OFFICER
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
Multan

Superintending Engineer
Building Circle Multan

ANALYSIS OF RATE FOR THE ITEM

Providing and fixing high quality LED SMD Panel Light 2 ft×2 ft of 48 watt/4000 k wattage anf Luminous flux with Polystyrene bowl/prismatic cover made of Philips as approved and direced by the Engineer Incharge.

Detail of Cost=1-No.

Unit = Each

2nd Bi-annual 2022

A	Material					
1	Phillips, LED Panel Light 24"x24" 48 watt/4000 k	1	No	Each	11000	11000
					Total "A"	**11000**

B Labour

1	Labour for fixing / installation.	1	No	Each	1350	1350
					Total "B"	**1350**
					Total Cost ="A"+"B" =	**12350**
	Add 20% Contractor's Profit & Overhead charges on Rs.	12350	/-			2470
					Grand Total: =	**14820**

Unit Rate P Sft = 14820 / 1 14820 Each

SAY 14800 Each

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

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

SUB ENGINEER

SUB DIVISIONAL OFFICER
Bldgs: Sub Division
Shujabad.

Executive Engineer
Bldgs: Division No. 2
MULTAN

Superintending Engineer
Building Circle Multan

ANALYSIS OF RATE

P/F False ceilling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.

1st July 2022 to 31st Dec 2022 Unit Rate P.Sft

Sr. No	Detail	Qty	Unit	Rate	Amount
A	MATERIAL				
1	DAMPA False ceilling 2'x2' i/c wire	100			
	Add: 5% Wastage	5			
	Total	105	P. Sft	350	36750
2	Aluminum Tee 1"x1/16"				
	2x6x10	120			
	Add: 5% Wastage	6			
	Total	**126**	Each	35	4410
3	Cost of Rawal plug (1 No) for 1 Sft	**8**	P.Dozen	30	240
4	Cost of Screw 1 1/4" size	**8**	P.Dozen	50	400
5	1/8" dia Rod 5' long 1 for 2Sft				
	50x5 = 252 225x 0.41x0.454 = 4.25	**4.25**	P.Kgs	42	179
			Total "A"		**41979**
B.	LABOUR				
1	Labour for fixing of frame i/c hanging wire upto 20' high	100	P.Sft	20	2000
2	Carriage of Material from factory to site			L.S	300
				Total	**2300**
	Add: 10% Sundries.				**230**
			Total "B"		**2530**
			Total A + B		**44509**
	Add: 20% Contractor Profit & O.H Charges				**8902**
			Total		**53411**
	Rate P.Sft	53411.00	\	100	**534.11**
			Say Rs. P.Sft		**360**

Sub Divisional Officer
Building Sub Division
Shujabad

Executive Engineer
Building Division No.02
Multan

Superintending Engineer
Building Circle Multan

ANALYSIS OF THE RATE FOR P/F OF LEAD LINING 1.5MM THICK LEAD SHEET WITH WALL FOR RADIATION PROTECTION UPTO ROOF HEIGHT AS APER INSTRUCTION & COVERING WITH WALL PANELLING I/C FRAME COMPLETE IN ALL RESPECT AS APPROVED AND DIRECTED BY THE ENGINEER INCHARGE ALSO APPROVED THE RADIATION PROTECTING AGENCY ETC.

Area: 10x10= 100 Sft
Unit: P.Sft

S.#	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit			
1	P/F Led Lining Sheet 1.5mm thick with 5% wastage	105	Sft				
	Total:	105	Sft	960.00	P.Sft	Rs.	100800
2	Carriage Charges				L.S	Rs.	5000
				TOTAL		**Rs.**	**105800**
	Add 20% Contractor Profit					Rs.	21160
				TOTAL		**Rs.**	**126960**
				Rate P.Sft:		**Rs.**	**1269.60**
				Say:		**Rs.**	**1269**

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the 2nd BI-ANNUAL-2022 (01.07.2022 TO 31.12.2022) District Multan

Sub Divisional Officer
Buildings Sub Division
Shujabad

Executive Engineer
Building Division No.02
Multan

Superintending Engineer
Building Circle Multan

RATE ANALYSIS FOR

Supply and Installation of Philips LED Bulb 24W E27 3000K 230V A80 1CT/6 APR (Philips made) Complete in all respects as approved by the Engineer Incharge

2nd Biannual 2022

a) Material

1 Supply and Installation of Philips LED Bulb 24W E27 3000K 230V A80 1CT/6 APR (Philips made)

1 x 1 = 1 No.

@ 940.00 Each 940

b) LABOUR:

1 For fixing

@ 20.00 Each - 20.00

Total 960

Add 20% Contractor's Profit 192

Total 1152

Say 1150 /-

SUB ENGINEER

SUB DIVISIONAL OFFICER
Building Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
MULTAN

Superintending Engineer
Building Circle Multan

RATE ANALYSIS FOR

Making And Fixing Stainless Steel Sheet 20-SWG upto height of strecher or half of door height I/C Fixing With Screws On Door Complete In All Respects And As Approved By The Engineer Incharge

Unit = P.Sft
Taking = 16-Sft

2nd Bi-Annual 2022

Sr. No:	DESCRIPTION OF ITEMS		QUANTITY	UNIT	RATE	AMOUNT
A) MATERIAL.						
1	P /O Stainless Steel Sheet 20-SWG	4x4	16 Sft			
	Add 5% Wastage		0.8 Sft			
			16.8 Sft	P.Sft	820.00	13776
2	Cost of Adhesive Solution/sheet	4x4	16 Sft			
			16 Sft	P.Sft	5.00	80
3	Cost of Stainless Sankan Head Screws 3/4" Long	1x12	12 Nos			
			12 Nos	Each	10.00	120
	TOTAL - A					**13976.00**
B) LABOUR						
	i) Labour For Cutting Strip		2 No.	Each	25	50.00
	ii) Labour for Bending Strip		1 No.	(L.S)	25	25.00
	iii) Labour for drilling Hole		12 No.	(L.S)	20	240.00
	iiv) Labour for fixing for sheet		1 No.	(L.S)	20	20.00
	10% SUNDRIES					33.50
	TOTAL - B					**368.50**
	G- TOTAL (A+B)					**14344.50**
	ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES					2868.9
	OVER ALL TOTAL					**17213.40**

RATE PER Rft = 1075.84

Say Rs: = 1075/- P. Sft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No 2
Multan

Superintending Engineer
Building Circle Multan

RATE ANALYSIS FOR

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

Unit = P.Rft
Taking = 20-Sft

2nd Bi-Annual 2022

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

RATE PER Rft = 1063.23

Say Rs: = 1060/- P. Sft

SUB ENGINEER

SUB DIVISIONAL OFFCER
Buildings Sub Division
Shujabad

EXECUTIVE ENGINEER
Buildings Division No.2
Multan

Superintending Engineer
Building Circle Multan

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:LO22010099
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2023-2024		2024-2025		2025-2026		2026-2027		2027-2028	
		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:LO22010099
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2023-2024		2024-2025		2025-2026		2026-2027		2027-2028	
		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**

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

9. FINANCIAL PLAN AND MODE OF FINANCING

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

Revenue Side:

(Rs.in Million)

	FY 2021-22	FY 2022-23
Funds Released	**6.240**	**9.098**
Utilization	**5.088**	**2.162**

Capital Side:

	FY 2021-22	FY 2022-23
Funds Released	**0.000**	**5.000**
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

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

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

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 THQ. Shujabad. (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.

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17. RELATION WITH OTHER PROJECTS