



PC-1

Balance Work of Revamping of THQ Hospital Gojra

ORIGINAL APPROVED COST	PKR Million. 162.880/-
ORIGINAL APPROVED GESTATION	43 Months Till June 2025
APPROVAL FORUM	DDSC (DDSC)

1. NAME OF THE PROJECT

Balance Work of Revamping of THQ Hospital Gojra

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. TOBA TEK SINGH

2.2. TEHSIL(S)

I. GOJRA

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 FEDERAL MINISTRY

- NATIONAL HEALTH SERVICES, REGULATIONS AND COORDINATION

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

4. PLAN PROVISION

Sr #	Description
1	Source of Funding: Scheme Listed in ADP CFY
2	Proposed Allocation: 0.000
3	GS No: 5370
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

. 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 Gojra:	57,343 SFT
Area completed:	37,258 SFT
Area Not Taken up:	20,085 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/stretchers 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 grooves 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 cities 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 casualties, 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/stretchers way for entrance, podium and platform for wheel chairs are proposed in this program for facilitation of patients. Portico is a small structure constructed outside the covered area consisting of four or two columns carrying a slab or roof over it. This portico is constructed in this program outside 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 be constructed outside the emergency department because almost all the patients coming towards the emergency block are on either wheel chairs or stretchers. 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 stretchers way is proposed outside 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 uninterrupted 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 infectional 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, paedes, 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 then 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.

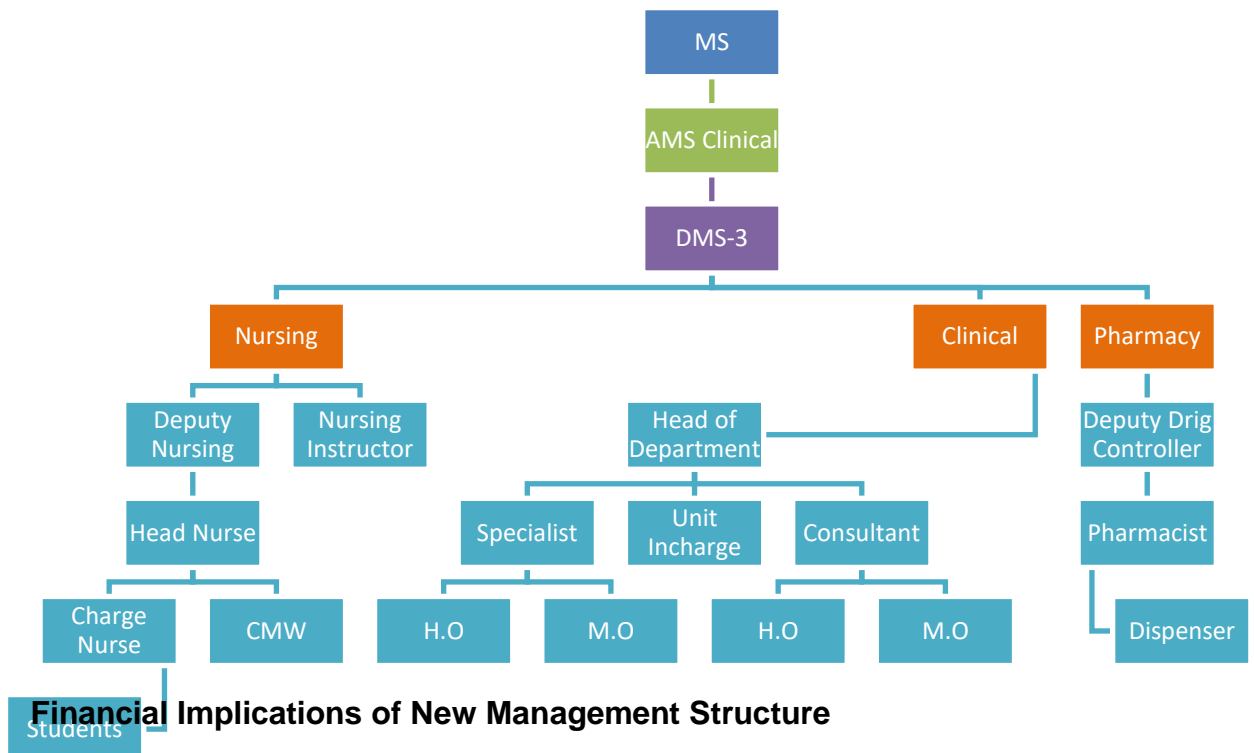
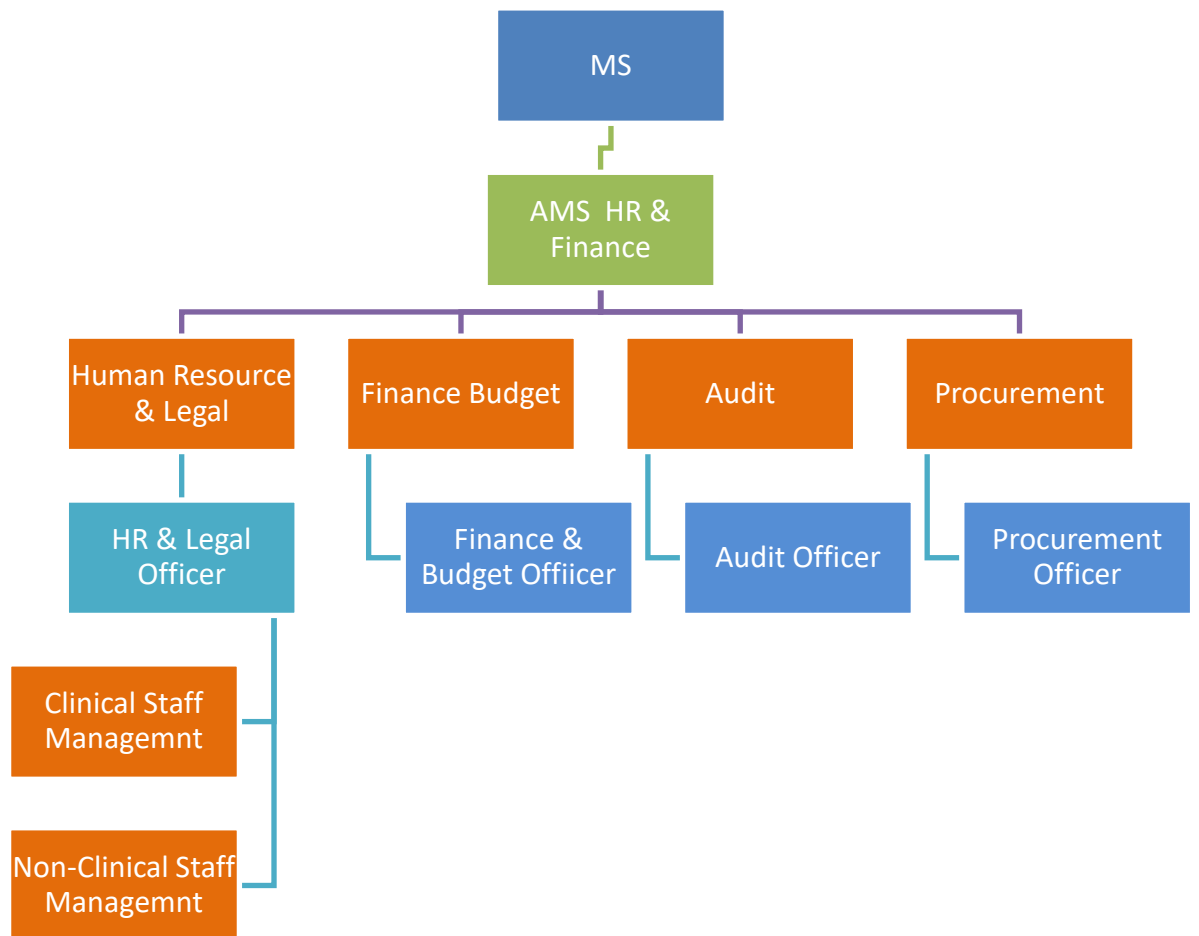
5.7.4 EMR and Networking

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

Students

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:

<u>Project Pay Scale</u> <u>(PPS)</u>	<u>Revised Project Pay Scales</u> <u>(Permissible Range) (PKR)</u>	<u>Annual Increment</u> <u>Up to % age</u>
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
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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

Eligibility 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 / subordinate 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

Eligibility 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.

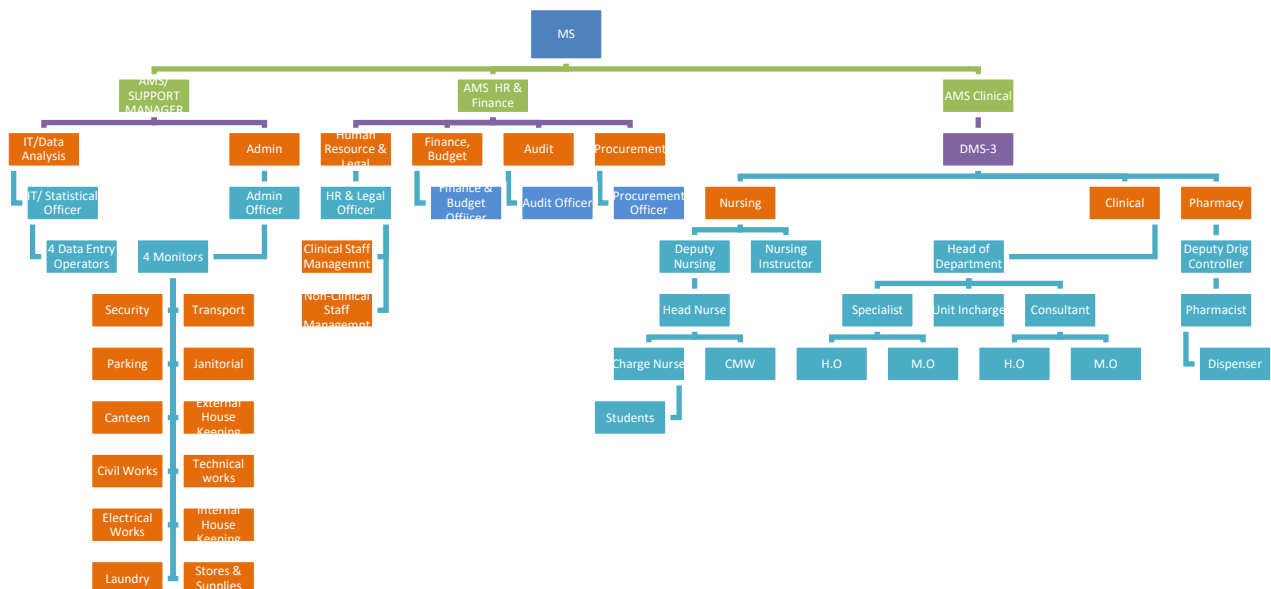
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

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 O.P.D:

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 DEATH OR END OF LIFE MANAGEMENT.

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 Gojra District Toba Tek Singh is more than 0.420 million. The area of the THQ Hospital Gojra District Toba Tek Singh is 468,556 SFT land.

6.1 DESCRIPTION AND JUSTIFICATION

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

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

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

JUSTIFICATION FOR REVISION OF PC-I

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

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

Thereafter it was decided to complete the balance civil work of revamping through C&W Department and a block scheme titled "Balance Work of Revamping of all DHQ/15 THQ Hospitals in Punjab" was included in ADP 2021-22. Accordingly, the Rough Cost estimates of balance civil work has been got prepared from the Punjab Buildings Department for preparation of PC-Is and were approved from the DDSC. Infrastructure team has conducted the Joint visits with the team of C&W Department. During the field visits, few alterations were recommended by the technical teams which have been incorporated in the Revised Rough Cost Estimates of the subject scheme and have been attached with the PC-I along with comparative statement. Therefore, Civil works component cost has been decreased from Rs. 172.144 million to Rs. 127.130 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	60 th 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

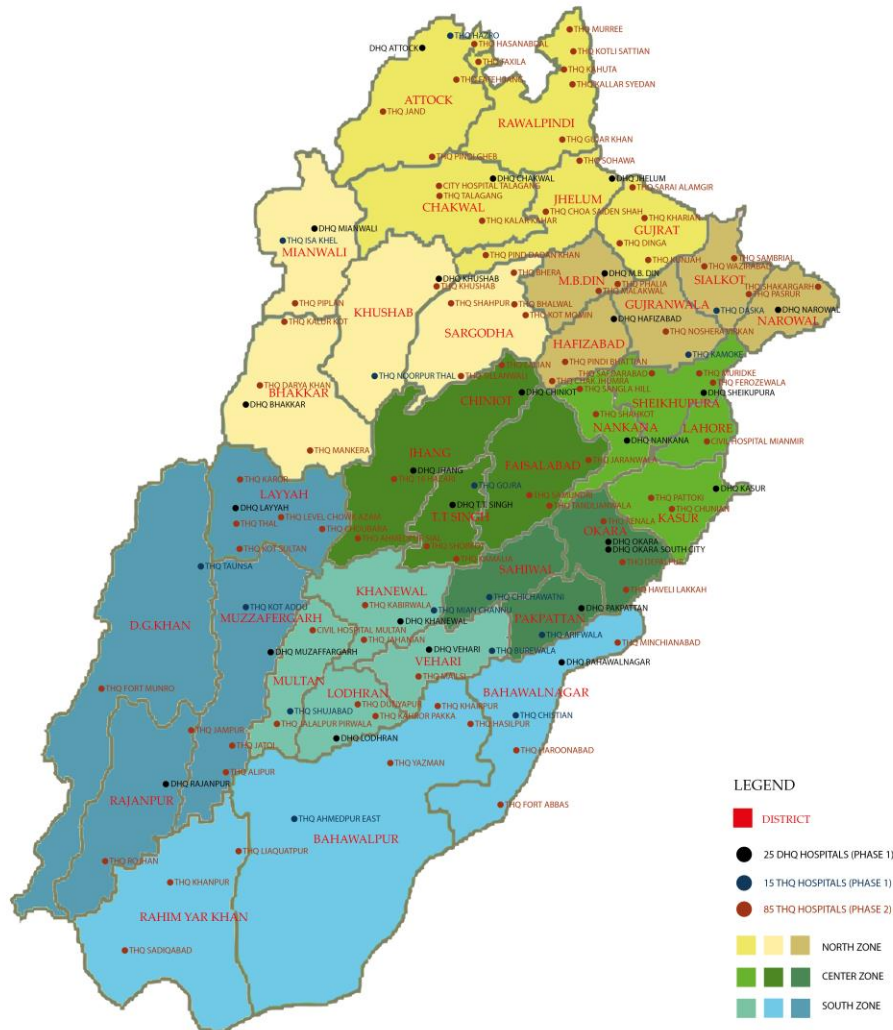
given

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:LO21010554
A/C To be Credited:Assan Assignment

PKR Million

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

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

Grant Number:Government Buildings - (PC12042)
LO NO:LO22010096
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	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

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	Gojra					
Scope of work	Original			1st Revised		
	Capital	Revenue	Total	Capital	Revenue	Total
Capital component						
Internal Development	52.184	0.000	52.184	70.187	0.000	70.187
External Development	103.876	0.000	103.876	44.920	0.000	44.920
Water filtration plant	1.870	0.000	1.870	1.526	0.000	1.526
Total Capital Component	157.930	0.000	157.930	116.633	0.000	116.633
Revenue component						
Human resource (HR) plan	0.000	17.520	17.520	0.000	46.247	46.247
Total Revenue component	0.000	17.520	17.520	0.000	46.247	46.247
Total	157.930	17.520	175.450	116.633	46.247	162.880
PST (5%)	7.897	0.000	7.897	0.000	0.000	0.000
Contingency (3%)	4.738	0.000	4.738	0.000	0.000	0.000
Punjab Green tax (1%)	1.579	0.000	1.579	0.000	0.000	0.000
Grand Total	172.144	17.520	189.664	116.633	46.247	162.880

Human Resource Model of THQ Hospital

	Original				1st Revised				
NAME OF POST	No. of Employees	Per Month Salary	Per Month Salary for all Person	Salary for Two Years	No. of Employees	Project Pay Scale	Per Month Salary	Per Month Salary for all Person	Salary for Two Years
ADMIN OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
HUMAN RESOURCE/LEGAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
IT/STATISTICAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
FINANCE & BUDGET OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
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				16.394					
									46.247

PROVINCE.

PUNJAB.

STATION.

TOBA TEK SINGH.

DIVISION.

BUILDINGS DIVISION,
TOBA TEK SINGH.

SUB DIVISION.

BUILDINGS SUB DIVISION,
TOBA TEK SINGH.

NAME OF WORK.

ROUGH COST ESTIMATE FOR
REVAMPING OF TEHSIL
HEADQUARTER HOSPITAL GOJRA
(ADP NO.660 / 2022-23).

MAJOR HEAD.

116.633 (M)
~~117.697 (M)~~
169.004 (M)
169.243 (M)
164.557
Rs. 178.773 (M).

ESTIMATE COST.

ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTER HOSPITAL GOJRA TOBA TEK SINGH (ADP NO.660 / 2022-23).

HISTORY:-

Primary and Secondary Healthcare Department (P&SHD) has transformed its secondary healthcare establishments through revamping program, P&SHD is having 26 District and 133 Tehsil Headquarter Hospitals across the Punjab. These hospitals have been divided in the two phases of revamping program. P&SHD has carried out the civil works under revamping program in Phase-I hospitals through infrastructure Development Authority (IDAP). The scope of work of the revamping civil works was i) internal Development ii) External Development and iii) External Electrification. As of now around 60% of work on these schemes has been completed by IDAP.

Now, the P&SHD intends to carry out complete revamping of these Phase-I hospitals through Communication and Works Department Punjab. Hence, Project Management Unit office P&SH department has approached this office for preparation of cost estimates for remaining work of these hospitals so that the work on these schemes can be executed completely. The detail design document as provided by PMU is attached with the estimate. It is pertinent to mentioned here that as per the direction of PMU the revamping of only the remaining civil infrastructure of Tehsil Headquarter Hospital Gojra has been taken in estimate i.e. no work in the area revamped by IDAP has been taken in this estimate. Only the non-revamped area (clinical blocks only) has been taken in this estimate. Further, no addition alteration has been taken. The PMU was requested to provide detailed site specific drawings, vetted by competent authority, if any addition alteration was required. However, no such drawing was provided therefore addition alteration was not considered and only revamping of the area and overhauling of utilities (electricity, water, sewerage) was considered.

DESIGN AND SCOPE:- The following provision has been made in this estimate.

A-	Internal Development	
1	Internal Development of Existing Building / Revamping (Balance work)	
2	Public health of existing clinical block	
3	Internal E.I work	
B-	External Development	
1	Tuff Tile parking area & fiber glass shed	
2	Mettled Road	
3	Boundary wall	
4	External Water Supply	
5	Sewerage System	
6	External Lighting.	
7	SUPPLY, INSTALATION AND TESTING OF R.O PLANT.	

RATES:-

The Rate provided in the estimate are based on Plinth area / MRS Rates 2nd Bi-annual 2022.

COST:-

Cost of rough cost estimate works out of Rs. 178.773 Millions

~~184.557~~ (16) 116.633(M)
~~184.557~~ 117.694(M)

LAND:-

Land is available. Therefore, no separate provision for cost of Land has been provided in the detailed estimate.

TIME:-

The gestation period of the scheme has been kept as 18 months.

CERTIFICATION:- The work will be executed strictly according to PWD / B&R specifications.

EXECUTIVE ENGINEER

Buildings Division

Toba Tek Singh

— / —

[illegible]

[illegible]

IDENTIFICATION OF SCOPE FOR REVAMPING OF HEALTH FACILITY						Visit Date: 04/08/2022	
THQ Hospital Gojra							
Sr No	Item	OPD/G.Floor	Old Emergency / Gynae Ward,	Diagnostic Block	Wards	OT / 1st. Floor	Nursing college
Expansion joint of Building							
Note:-							
1	Develop footpath on far side of front wall of hospital with kerb stones with black and yellow paint.						
2	Provide two numbers missing double jail with QMS hall. Provide aluminum/glazed door in QMS hall and center corridor.						
3	Dismantle washroom in the center room to make the room functional properly.						
4	The concrete is spalled from the soffit of slab. Make the damaged slab finish with plaster properly.						
5	Reconstruct the damaged / tilted / missing boundary wall of hospital.						
6	Provide double surface treatment to the damaged road surface and make road properly not raising its level above plinth protection.						
7	Provide CP flush bends to flushing cisterns.						
8	Paint the old good condition doors with ash white matt paint.						
9	Provide hydraulic floor hinges to Aluminum doors.						
10	Close the windows in OT room.						
11	Conceal the CCTV and Networking Cables in consultation with Hospital Expert.						
12	Shift the Main cables from roof to the corridors.						
13	Make sure to make proper arrangement of provision of electric point, condensate pipe and drain pipe for air-conditioner dispose of into nearest P-traps. It is better to provide 2" dia G.I pipe concealed in the wall projecting on to roof for outdoor units on roof.						
14	The main entrance door and Red fire door in OT be replaced with new doors with stainless steel cladding on lower half portion on both sides.						
15	Close the OT area with newly constructed OPD area and make an independent stair at the end of this block for independent access instead through OT.						
16	Damaged marble slabs on counters in OT be replaced with new marble and provide 2' high tiles on wall above counter level.						
17	Make dump well in back side corridor of OT block along with chute for disposal of OT waste in consultation with PMU.						
18	Develop Counters with marble top and 2' high tiles on walls in demonstration lab and marble on slab of kitchen shelf in Nursing college and Hostel.						
19	The T-Iron rail at the bottom of collapsible gate of nursing college must be lowered down at the floor level.						
20	Replace damaged wooden doors on terraces of nursing college and hostel with MS leaves operable outside and a step inside.						
21	Provide proper size MS exhaust fan 18" dia. With 18" MS Square Duct in kitchen Hood of nursing Hostel.						
22	Replace damaged wooden doors outside of kitchen of nursing hostel with MS leaves.						
23	Raise the threshold level of Main Gate and reconstruct the 6' high boundary wall on back side of nursing hostel						
24	Provide the MS Wardrobs in Nursing Hostel with three cabins.						
25	Provide stand by centrifugal pump for water supply.						
26	Reconstruct 20000 gallons OHR in replacement of Existing damaged one.						

Primary & Secondary Healthcare

(PKR Million)

GS No	Scheme Information Scheme ID / Approval Date / Location	Est. Cost	Accum. Exp. June, 22	Provision for 2022-23			MTDF Projections		Throw fwd Beyond June, 2025
				Cap.	Rev.	G.Total (Cap.+Rev.)	2023-24	2024-25	
1	2	3	4	5	6	7	8	9	10
656	Establishment of Cardiac Ward at RHC Khan Bela, Tehsil Liaquatpur, District Rahim Yar Khan 01032107937 / 17-07-2021 / Rahim Yar Khan	43,659	5,000	1,000	0.00	1,000	37,659	0.00	0.000
657	Establishment of THQ Hospital Bhowana District Chiniot 01081100024 / 16-05-2012 / Chiniot	397,804	125,000	10,000	0.100	10,100	262,704	0.00	0.000
658	Programme for Revamping of all THQ Hospitals in Punjab 01371700456 / 12-02-2019 / Punjab	22,060,239	6,446,220	1,300,000	500,000	1,800,000	7,826,305	5,987,715	0.000
659	Upgradation of Existing Trauma Centers and Establishment of New Trauma Centers across the Punjab 01372100633 / 30-07-2021 / Punjab	5,000,000	1,002,774	0.000	100,000	100,000	3,045,597	0.000	0.000
660	Rehabilitation of Patients of all PHCs 013735357 / 12-02-2019 / Punjab	589,021	240,000	0.000	10,000	10,000	339,021	0.000	0.000
661	Establishment of a Health Facility in Rakni District Barkhan Balochistan 01372154482 / 01-02-2022 / Punjab	89,810,279	39,189,028	2,801,527	1,767,145	4,568,672	34,104,178	9,538,224	0.000
Total: Secondary Health Care									
Special Initiatives									
662	Prime Minister Health Initiative 01371900805 / 21-11-2019 / Punjab	2,524,446	1,297,517	0.000	650,000	650,000	576,929	0.000	0.000
Total: Special Initiatives									
Total: ON-GOING SCHEMES									
NEW SCHEMES									
Preventive Health Care									
663	Integrated Program for Communicable Disease Control, Punjab 01372001521 / Un-Approved / Punjab	1,000,000	0.000	0.000	200,000	200,000	800,000	0.000	0.000
664	Infection Control Program Phase (II) 01372200879 / Un-Approved / Punjab	1,000,000	0.000	0.000	200,000	200,000	800,000	0.000	0.000
665	National Health Support Project (NHSP) 01372202153 / Un-Approved / Punjab	3,870,000	0.000	0.000	10,000	10,000	3,860,000	0.000	0.000
666	Strengthening of Family Planning Services in Primary & Secondary Health Facilities 01372202154 / Un-Approved / Punjab	4,000,000	0.000	0.000	10,000	10,000	3,990,000	0.000	0.000
667	Strengthening of Preventive Programs 01372202162 / Un-Approved / Punjab	1,000,000	0.000	0.000	400,000	400,000	600,000	0.000	0.000
Total: Preventive Health Care									
Primary Health Care									
668	Strengthening of Urban Dispensaries / Filter Clinics 01372202161 / Un-Approved / Punjab	400,000	0.000	100,000	150,000	250,000	150,000	0.000	0.000
669	Replacement of Beds and Other Equipment at BHUs of Punjab 01372202278 / Un-Approved / Punjab	400,000	0.000	0.000	400,000	400,000	0.000	0.000	0.000

ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTER HOSPITAL GOJRA (ADP NO.660 FOR THE YEAR 2022-23).

GENERAL ABSTRACT OF COST

Sr. No.	Description	As per Rough Cost Estimate	Remarks
A-	Internal Development	11891.158	
1	Revamping of Old Emergency Ward / Public Health	16354400 14471756 14390400 12984400	
2	Revamping of Ward Ground Floor / Public Health	10937200 10988200 10757200	
3	Revamping of O.T (FIRST FLOOR) / Public Health	14378600 13327600	
4	Internal E.I work	50585000 33,980,107.1 41079000 40087000	1/2 Curtain Frame 1/2 Barry
B-	External Development	6747000	
1	Tuff Tile & parking shed	1780000 8461000	
2	Mettled Road	7655000 2008455	
3	Boundary wall	32565000 13147129/- 34079000	
4	WATER SUPPLY / SEWERAGE	14860000 6260000 X	
5	External Lighting.	2212540 5530000	
6		8600000 8600000 ✓	consd. of O.H.R 20,000 gallons

EXECUTIVE ENGINEER
BUILDINGS DIVISION
TOBA TEK SINGH

SALEMAN
BUILDING NO. 2
ENGINEERING

Sr. No.	Description	As per Rough Cost	Estimate	Remarks
6	SUPPLY, INSTALLATION AND TESTING OF R.O PLANT.	1525500	149129700	
	Total	162170700	1538214700	106,141,687
	Add 5% PRA	8100835	7456485	5307084
	Add 3% Contingency	4805301	4592441	3,184,051
	Add 1% Horticulture charges	1624767	1532417	1061417
	Add for WAPDA Connection	2000000	164551373	116633022
	G.Total	178772803	16904023	117694439
	Say	178773000	16904000	11663300
	OR	178773(M)	164551	1166333(M)

ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTER HOSPITAL GOJRA (ADP NO.660 FOR THE YEAR 2022-23).

GENERAL ABSTRACT OF COST (Revamping of Old Emergency Ward)

Sr. No.	Description	As per Rough Cost Estimate	Remarks
1	Revamping of Old Emergency Ward	14218000	
2	PUBLIC HEALTH PORTION	2136400	
	Total	16354400	

EXECUTIVE ENGINEER
BUILDINGS DIVISION
TOBA TEK SINGH

SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

Revamping of Old Emergency Ward

1 Dismantling P.C.C 1:2:4, 1 1/2" thick.

Main Building Ground Floor

Corridor Old Emerg	1	x	41 1/4	x	7 7/8	=	325	Sft
Emerg: Ward / ICU	2	x	20 7/8	x	16 7/8	=	705	Sft
Doctor office	1	x	15 3/8	x	16 7/8	=	259	Sft
Scurbup / Sterilize	2	x	7 1/2	x	7 7/8	=	118	Sft
Sitting area near re	1	x	35 1/6	x	24	=	844	Sft
O.Emerg: Ent.	1	x	11 1/2	x	24 5/8	=	283	Sft

Total = 2534 Sft-A

X-Ray & Lab Area	2	x(	20 7/8	+	16 7/8	)x	5	=	378	Sft
Store Room	2	x(	16 7/8	+	7 7/8	)x	5	=	248	Sft
Altra Sound	2	x(	20 6/7	+	12 3/8	)x	5	=	332	Sft
Blood Bank	2	x(	20 6/7	+	12 3/8	)x	5	=	332	Sft
Blood Bank	2	x(	20 6/7	+	16 7/8	)x	5	=	377	Sft
Waiting	2	x(	16 7/8	+	0	)x	5	=	169	Sft
Store	2	x(	7 1/2	+	7 7/8	)x	5	=	154	Sft
Office	2	x(	13	+	7 7/8	)x	5	=	209	Sft
X-Ray	2	x(	20 7/8	+	16 7/8	)x	5	=	378	Sft
Dark Room	2	x(	9 7/8	+	10 3/4	)x	5	=	206	Sft
Corridor	3	x	55 3/5	x	5			=	834	Sft
Dignostic Lab	2	x(	20 2/3	+	10 1/4	)x	5	=	309	Sft

Total = 3925 Sft-B

Total A+B = 6459 Sft-B

$$\frac{2534}{6459} \times \frac{0.175}{0.16} = \frac{207.317}{1035} \text{ Cft}$$

@ 11,174.60 %Cft

2 Dismantling glazed or encaustic tiles, etc.

Main Building Ground Floor

Old Emerg: Ward	1	x	6	x	8 5/8	=	52	Sft
WC	3	x	3 1/8	x	4 1/2	=	42	Sft
Toilet	1	x	9 7/8	x	16 7/8	=	167	Sft
Toilet	1	x	6 7/8	x	8 5/8	=	59	Sft
Sterilize / Scurbup Main	2	x	7 1/2	x	7 7/8	=	118	Sft
Doctor Office	1	x	4 5/6	x	6	=	29	Sft
Old Emerg: M.Ent.	1	x	24 2/3	x	11 1/2	=	284	Sft
Ramp	1	x	9	x	16 1/2	=	149	Sft
Ramp	1	x	6 3/4	x	23 1/2	=	159	Sft
O/Emerg: Record Ro	1	x	15.375	x	16.875	=	259	Sft
ECG Room	1	x	15.375	x	16.875	=	259	Sft
CMO Room	1	x	15.375	x	16.875	=	259	Sft
Corridor	1	x	41.000	x	7.875	=	323	Sft

Total = ~~2459~~ Sft-A

Main Building Ground Floor Bath

Old Emerg: Ward E	2	x(	6	+	8 5/8	)x	5	=	146	Sft
WC	6	x(	3 1/8	+	4 1/2	)x	5	=	229	Sft
Toilet	2	x(	9 7/8	+	16 7/8	)x	5	=	268	Sft
Toilet	2	x(	6 7/8	+	8 5/8	)x	5	=	155	Sft
Steriliza / Scrubup New	4	x(	7 1/2	+	7 7/8	)x	5	=	308	Sft
Doctor Room	2	x(	4 5/6	+	6	)x	5	=	108	Sft
O/Emerg: Record Ro	2	x(	15.375	+	16.875	)x	5	=	323	Sft
ECG Room	2	x(	15.375	+	16.875	)x	5	=	323	Sft
CMO Room	2	x(	15.375	+	16.875	)x	5	=	323	Sft
Corridor	1	x	41.000	x	5			=	205	Sft

Total = 2386 Sft-B

~~Total A+B~~ 4545 Sft

@ 2,335.85 %Sft

~~SS733~~
~~466160~~

3 Removing cement or lime plaster.

Main Building Ground Floor

Corridor	2	x	41 1/4	x	5			=	413	Sft
Emerg: Ward / ICU	4	x(	20 7/8	+	16 7/8	)x	5	=	755	Sft
Doctor office	2	x(	15 3/8	+	16 7/8	)x	5	=	323	Sft
Scrubup / Sterilize	4	x(	7 1/2	+	7 7/8	)x	5	=	308	Sft
Sitting area near re	2	x(	26 1/6	+	35 1/6	)x	5	=	613	Sft

Total = 2411 Sft

@ 423.30 %Cft

10207

4 Removing door with chowkat.

Ground Floor

= 38 No

Total = 38 No

5 Removing windows and sky lights with chowkat.

Ground Floor

= 32 No

Total = 32 No

@ 341.50 Each

10928

6 Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same.

Salve laboratory	1	x	29 7/8	x	2	x	0.333	=	20	Cft
	1	x	18 7/8	x	2	x	0.333	=	13	Cft
	1	x	20 7/8	x	2	x	0.333	=	14	Cft
Total								=	47	Cft

@ 18,285.70 %Cft

8594

7 Dismantling brick work in lime or cement mortar.

8	x	2	x	3/8	x	2.5	=	15	Cft
5	x	2	x	3/8	x	2.5	=	9	Cft
1	x	16 5/6	x	3/4	x	10.833	=	137	Cft
Total								=	161 Cft

6951

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

Qty as item No.1-A+2-A	4693	x	0.467	=	587	Cft
Total					=	587 Cft

22410
209523

@ 38,178.90 %Cft

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

Qty as item No.1-A+2-A									
Door Cill	1	x	4 7/8	x	3/4	=	4693	Sft	
	14	x	3 1/2	x	3/4	=	4	Sft	
	1	x	8	x	3/4	=	37	Sft	
	8	x	4	x	3/4	=	6	Sft	
	14	x	2 1/4	x	3/4	=	24	Sft	
Total								=	24 Sft

1630553

@ 340.55 P.Sft

10 Providing and laying superb quality Porcelain glazed tiles skirting/ dado of MASTER brand of specified size in approved design, 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 respect as approved and directed by the Engineer Incharge (a) Full body Glazed tiles 600 mm x 600 mm.

Qty as item No.1-B									
Qty as item No.2-B	=	2386	/	5	x	7	=	3925	Sft
Qty as item No.3	=							3340	Sft
under Shelf	73	x	2	x	2	x	2.5	=	2411 Sft
	73	x	3/8	x	2 1/2	=		730	Sft
Total								=	68 Sft

Deducatioan

Door	1	x	4 7/8	x	5 1/2	=	24	Sft
	14	x	3 1/2	x	5 1/2	=	245	Sft

1	x	8	x	5 ¹	=	40	3 ² Sft
8	x	4	x	5 ¹	=	160	128 Sft
14	x	2 1/4	x	6 1/2	=	205 1/2	6 Sft

							Total =	674	Sft
							502		
Net	=	10474	-	674	=	8705	8705	Sft	
							@	340.55	P.Sft

3337535
= 2964547

11 Providing and laying superb quality Porcelain glazed tiles skirting/ dado of MASTER brand of specified size in approved design, 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 respect as approved and directed by the Engineer Incharge (Non-Skid Chequered Tiles) 300mmx300mm

Ramp	1	x	9	x	16 1/2	=	149	Sft
	1	x	6 3/4	x	23 1/2	=	159	Sft
	1	x	35	x	3 1/3	=	117	Sft

Total = 425 Sft

@ 211.60 P.Sft 89930

12 Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x3/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.

Ground Floor	10	x	5.833	x	6	=	350	Sft
	6	x	5.833	x	8.5	=	297	Sft
	1	x	5.833	x	4.5	=	26	Sft
	1	x	3.000	x	4	=	12	Sft
	1	x	8.000	x	6	=	48	Sft
	1	x	4.250	x	6	=	26	Sft
	2	x	5.250	x	6	=	63	Sft
	1	x	9.500	x	6	=	57	Sft
	1	x	3.333	x	6	=	20	Sft
	2	x	5.833	x	6	=	70	Sft
	3	x	6.000	x	1.5	=	27	Sft
	2	x	3.000	x	1.5	=	9	Sft
	1	x	7.000	x	4	=	28	Sft

Total = 1033 Sft

@ 1,348.40 P.Sft 1392897

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

Qty as item No.8 1033 / 2 = 517 Sft

Total = 517 Sft

254660

14 P/F M.S grill of 3/8"x3/8" sq bar i/c M.S flat 3/4"x3/16" for frame in window of approved design 6 nos holdfast 9" long M.S iron 3/4"x3/4"x1/8" painting tree coating i/c cost of labour material complete in all respect.

Qty as item No. 13

Registration Area 2 x 8.000 x 6 = 1033 Sft

Total = 1129 Sft

854.50
@ 506.00 P.Sft
964618/571274

15 P/F 1-1/2" thick solid flush door comprising of 2.5mm thick Deodar /Ash /Oak ply with grooves, compressed over 2.5mm thick commercial ply over 1" thick packing wood instyleand rail sunder proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charge sand lacquer polishing to showt hegrainsofply properly, sand papering and 3/8" thick matching wood enlipping as approved and directed by the Engineer Incharge

Door 1 x 4 7/8 x 8 1/2 = 41 Sft
14 x 3 1/2 x 8 1/2 = 417 Sft
1 x 8 x 8 1/2 = 68 Sft
8 x 4 x 8 1/2 = 272 Sft

Total = 798 Sft

541483

16 Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 16 SWG welded with M.S. flat 6"x 1 1/4" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: a) single rebate 10.5" wide

Qty asi tem No. 16 = 798 Sft

Total = 798 Sft

496276

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

1 x 8.250 x 7 = 58 Sft
1 x 8.250 x 8.333 = 69 Sft
1 x 8.250 x 9.75 = 80 Sft
1 x 8.250 x 10.875 = 90 Sft
1 x 10.000 x 8.333 = 83 Sft
2 x 5.000 x 8.25 = 83 Sft
1 x 4.833 x 8.5 = 41 Sft
3 x 8.000 x 8.5 = 204 Sft

Total = 708 Sft

18 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

14	x	2.500	x	7	=	245	Sft
----	---	-------	---	---	---	-----	-----

Total = 245 Sft

@ 400
1,136.00
1872

2225500
276850
458640

19 Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, complete in all respect: on New surface.

Main Building 187.5+9.625+18+43 =258 Rft

1	x	258.000	x	26	=	6708	Sft
---	---	---------	---	----	---	------	-----

Main Building 49+82.75+94.25+12.25+26.25+17+11.5+24.75+11.5+124.75+25+75+48.75 +91.75+68+48.5+71.5+25+41.5+66.5+41.5+26.25+13.25= 1096 Rft

1	x	1096.500	x	26	=	28509	Sft
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68.5+58+10.5+11.5+25+57+68.5+32.5+38.5+25.5+30= 425.5 Rft

1	x	425.500	x	15.5	=	6595	Sft
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New Building 54.125+43+18+9.625= 124.75 Rft

1	x	124.75	x	25.25	=	3150	Sft
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New Emergency ward 20.5+20+0.25+28+22+0.25+70.625+70.125+60.625+70.625+95.875+23.87 5+0.25+15.333= 498.333 Rft

1	x	498.333	x	16	=	7973	Sft
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28.25+28.25+35.375= 91.875 Rft

1	x	91.875	x	12	=	1103	Sft
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2	x	31.500	x	11	=	693	Sft
---	---	--------	---	----	---	-----	-----

2	x	25.500	x	11	=	561	Sft
---	---	--------	---	----	---	-----	-----

1	x	50.000	x	12	=	600	Sft
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1	x	80.000	x	12	=	960	Sft
---	---	--------	---	----	---	-----	-----

Total = 56852 Sft

Deduction

12	x	5.833	x	6	=	420	Sft
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10	x	5.875	x	6	=	353	Sft
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2	x	3.000	x	4	=	24	Sft
---	---	-------	---	---	---	----	-----

1	x	8.000	x	4	=	32	Sft
---	---	-------	---	---	---	----	-----

7	x	6.000	x	6	=	252	Sft
---	---	-------	---	---	---	-----	-----

4	x	8.000	x	4.5	=	144	Sft
---	---	-------	---	-----	---	-----	-----

2	x	6.000	x	2.875	=	35	Sft
---	---	-------	---	-------	---	----	-----

4	x	3.500	x	5.5	=	77	Sft
---	---	-------	---	-----	---	----	-----

3	x	2.000	x	7.875	=	47	Sft
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3	x	6.000	x	7.25	=	131	Sft
---	---	-------	---	------	---	-----	-----

1	x	6.000	x	3	=	18	Sft
---	---	-------	---	---	---	----	-----

First Floor	2	x	3.500	x	3.5	=	25	Sft
	12	x	5.875	x	6	=	423	Sft
	2	x	6.000	x	7.5	=	90	Sft
	8	x	9.000	x	4.5	=	324	Sft

Total = 2395 Sft

Net 1925.45 = 54457 Sft
@ 5,245.30 %Sft

1048542
2856433

20 Preparing surface and painting with emulsion paint:- 2 coat on old surface.

Qty as item No.1-A = 2534 Sft

Qty as item No.3 2411 / 5 x 7 = 3376 Sft
4220

Total = 5910 Sft
= 4477 Sft

D/d 25% opening

Take 60% without scraping 5065 4432 x 60% = 2659 Sft
Net 308 = 4432 Sft-A

Take 40% after scraping 4432 x 40% = 2034.65 %Sft
@ 2,034.65 Sft

618301
54110

@ 2,339.40 %Sft

41477
47400

21 Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect. 5065

Qty as item No.1-A = 4432 Sft

@ 233.60 %Sft

10354
11833

22 Providing and fixing automatic hydraulic cooperated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge

= 24 No

Total = 24 No

114111
70368

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

Shelf laboratory	1	x	25 3/4	x	2	=	52	Sft
	2	x	16 3/4	x	2	=	67	Sft
Blood Bank	1	x	20 7/8	x	2	=	42	Sft
Dark Room	3	x	7	x	2	=	42	Sft
Store	2	x	16 7/8	x	2	=	68	Sft
Waiting area	2	x	20 7/8	x	2	=	84	Sft
new wash room	1	x	7 1/2	x	2	=	15	Sft
nursing counter	1	x	9 7/8	x	2	=	20	Sft
	2	x	14	x	2	=	56	Sft
	2	x	5 1/2	x	2	=	22	Sft

Step O/Emerg:	3	x	15 2/3	x	1	=	47	Sft
	3	x	15 2/3	x	1/2	=	24	Sft
	1	x	7 1/4	x	4	=	29	Sft
	1	x	5 3/4	x	1 1/3	=	8	Sft
Total							=	576 Sft

@ 412.35 P.Sft 237514

24 Pacca brick work (1:6) cement sand mortar in Ground Floor.

	2	x	5	x	1 1/8	x	8.5	=	96	Cft
	2	x	8	x	1 1/8	x	2.5	=	45	Cft
Total										= 141 Cft

@ 30,793.35 %Cft 43419

25 Pacca brick work (1:4) cement sand mortar in Ground Floor.

New bath	1	x	7 5/6	x	3/8	x	7	=	21	Cft
	73	x	2	x	3/8	x	2.75	=	151	Cft
Nursing counter	2	x	4	x	3/8	x	3	=	9	Cft
	2	x	1 3/4	x	3/8	x	1.333	=	2	Cft
	1	x	6 1/4	x	3/8	x	3	=	7	Cft
Total										= 190 Cft

@ 32,464.10 %Cft 61682

26 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)

Shelf laboratory	1	x	25 3/4	x	2	x	0.25	=	13	Cft
	2	x	16 3/4	x	2	x	0.25	=	17	Cft
Blood Bank	1	x	20 7/8	x	2	x	0.25	=	10	Cft
Dark Room	3	x	7	x	2	x	0.25	=	11	Cft
Store	2	x	16 7/8	x	2	x	0.25	=	17	Cft
Waiting area	2	x	20 7/8	x	2	x	0.25	=	21	Cft
new wash room	1	x	7 1/2	x	2	x	0.25	=	4	Cft
nursing counter	1	x	9 7/8	x	2	x	0.25	=	5	Cft
	2	x	14	x	2	x	0.25	=	14	Cft
	2	x	5 1/2	x	2	x	0.25	=	6	Cft
nursing counter	1	x	7 1/4	x	4	x	0.25	=	7	Cft
	1	x	5 3/4	x	1 1/3	x	0.25	=	2	Cft
Total										= 127 Cft

@ 556.50 P.Cft 70676

27 Fabrication of mild steel Reinforcement cement concrete i/c cutting bending laying in position D/bar,

Qty as item No.28	127	x	6.75	x	0.454	=	389	Kg
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						Total	=	389	Kg	
28	Cement plaster 3/8" thick under soffit of RCC slab (1:3) upto 20' height. @ 31,394.70									
								%Kg		122125
	Corridor	1	x	57.125	x	7.875	=	450	Sft	
	Record Room	1	x	15.375	x	16.875	=	259	Sft	
	ECG Room	1	x	15.375	x	16.875	=	259	Sft	
	CMO Room	1	x	15.375	x	16.875	=	259	Sft	
	Proposed Icu	1	x	20.875	x	16.875	=	352	Sft	
	Doctor Room	1	x	15.375	x	16.875	=	259	Sft	
	Emerg: ward	1	x	20.875	x	16.875	=	352	Sft	
							Total	=	2190	Sft
										81218
29	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through godies fixed on vertical post, i/c staines steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge. @ 3,708.60									
								%Sft		
	Old Emergency Ramp					2x16.5	=	33.00	Rft	
	Old Emergency Ramp					1x23.5	=	23.50	Rft	
							Total	=	56.50	Rft
										100293
30	Providing and fixing Vin board cabinet 3/4" thick with drawers 3" deep in Kitchen including termite proofing and polishing or painting with synthetic enamel as specified, with handles, hinges, screws etc., complete in all respects. 1-1/2' deep with out back. @ 1,775.10									
								P.Rft		
	Shelf labortary	1	x	25 3/4	x	2	=	52	Sft	
		2	x	16 3/4	x	2	=	67	Sft	
	Blood Bank	1	x	20 7/8	x	2	=	42	Sft	
	Dark Room	3	x	7	x	2	=	42	Sft	
	Store	2	x	16 7/8	x	2	=	68	Sft	
	Waiting area	2	x	20 7/8	x	2	=	84	Sft	
	new wash room	1	x	7 1/2	x	2	=	15	Sft	
	nursing counter	1	x	9 7/8	x	2	=	20	Sft	
		2	x	14	x	2	=	56	Sft	
		2	x	5 1/2	x	2	=	22	Sft	
		1	x	21	x	2 1/2	=	53	Sft	
							Total	=	521	Sft
										457490
31	Providing and fixing 22-SWG /12X12 G.I wire mesh and expanded metal (diamond hole shape) 5mm thick duly fixed with M.S patti 1"x1/8" on M.S angle iron frame 1 1/2"X1 1/2"X3/16" and braces @ 2 ft C/c horizontally & vertically i/c the cost of matt paint as approved & directed by the Engineer Incharge @ 878.10									
								P.Sft		
	New grill	2	x	8	x	6	=	96	Sft	
							Total	=	96	Sft
										47328
							@ 493.00	P.Sft		

32 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.

= 600 Rft

Total = 600 Rft

@ 455.00 P.Rft

273000

33 Preparing surface and painting of Doors & Windows any type 3 coats on New surface.

2076

= 4596 Sft

x 2

Qty as item No.16

798

x

Total = 4596 Sft

@ 2,714.40 %Sft

D/D COST OF OLD MATERIAL

* Door (Solid Flush Door)

Qty as item No.4

=

38

No

5000

Each

190000

Sft

* Windows (Box Section)

Qty as item No.5

=

32

No

6500

Each

208000

Sft

7000

398000

(-)

614000

Total

14218241

=

Say Rs

14218000

12254000

=

114717561

12254000

SUB ENGINEER

SUB DIVISIONAL OFFICER

BUILDINGS SUB DIVISION

TOBA TEK SINGH

ENGINEER

BUILDINGS DIVISION

TOBA TEK SINGH

PUBLIC HEALTH PORTION (Revamping of Old Emergency Ward)

(Based on 2nd Bi-annual 2022)

1.	P/F, glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. Coloured.	8 No.	2458.35	Each	19667 /-
ii	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP /rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge	1 No.	19987.90	Each	19988 /-
2.	Providing and fitting glazed earthen ware wash hand basin full size white pedestal.	7 No.	5169.95	Each	36190 /-
3.	P/F, Plastic made low down flushing cistern 13.63 litres (3 glns) capacity, i/c bracket set, copper connection coloured (Faisal made 4201 Nigra Flush Tank Plastic)	8 No.	2649.35	Each	21195 /-
4.	P/F, C.P tee stop cock 1/2" dia.	20 No.	955.00	Each	19100 /-
5.	P/F, P trap 4" dia glazed.	10 No.	283.15	Each	2832 /-
6.	P/F C.P bib cock 1/2" dia.	10 No.	775.00	Each	7750 /-
7.	P/F plastic Muslim toilet Shower 1/2" dia i/c double bibcock with flexible pipe best quality complete in all respect (Master made model 2015 muslim shower 242A double bibcock).	9 No.	2212.00	Each	19908 /-
8.	i. P/F Poly Propylene Random Copolymer (PPRC) Pipe (Dadex / Beta / BBJ) PN-20 pipe. 25 mm	700 Rft	66.50	P-Rft	46550 /-
	ii. -do- PN-20 pipe. 32mm	400 Rft	106.90	P-Rft	42760 /-
9.	i. Providing, fixing, testing and commissioning of UPVC (Unplastized poly vinyl Chloride) Nikasi /waste pipe make of dadex / Popular / Beta /BB Jplain / socket end edconforming 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) 110 mm	300 Rft	260.60	P Rft	78180 /-
	ii _do_ 60 mm.	100 Rft	88.90	P Rft	8890 /-
10.	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	7 No.	2228.75	Each	15601 /-
11.	Providing and fixing, CB flushing bend 1 1/2"	10 No.	700.00	Each	7000 /-

12.	Providing and fixing Bathroom Accessories (7-piece set) Master brand - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.	9 No.	7600.00	Each	68400 /-
13.	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- (4"x3")	9 No.	603.95	Each	5436 /-
14.	Boring for 1/2 Cusic turbine complete in all respects (Detail Attached)	1 Job	1717000	P.Job	1717000 /-

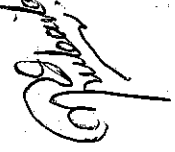
Total = 919400 ~~2436447~~ /-

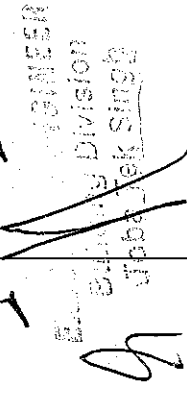
Say Rs =

2136400
419400



Sub Divisional Officer
Buildings Sub Division
Toba Tek Singh




ENGINEER
Buildings Division
Toba Tek Singh

**BORING AND LOWERING FOR 1/2 CUSC TURBINE COMPLETE IN ALL RESPECT AS
APPROVED BY THE ENGINEER INCHARGE.**

1. Direct Rotary/Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock (from ground level to 250 ft. (75 m) below ground level:-

15" to 18" dia = 250 Rft @ Rs. 770.65 P-Rft Rs. 192662.50

2. Providing and installing M.S. Bail plug in tubewell bore hole

6" dia 2' long = 1 No @ Rs. 3,751.90 Each Rs. 3752.00

3. Providing and installing, brass strainer in tubewell bore hole, including sockets, special sockets, studs, etc. complete:-

6" I/d, 3/16" thi = 80 Rft @ Rs. 6,828.10 P-Rft Rs. 546248.00

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

i) 12" dia 1/4" thi = 120 Rft @ Rs. 4,724.15 P-Rft Rs. 566898.00

ii) 6" I/d, 3/16" thi = 50 Rft @ Rs. 2,321.05 P-Rft Rs. 116053.00

5. Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole.

$$\begin{aligned} D/d \quad 22/7 \times (1-1/2 \times 2-1/4 \times 250) &= 441 \text{ Cft} \\ 22/7 \times (10/12 \times 2-1/4 \times 250) &= 135 \text{ Cft} \\ \text{Net Total} &= 306 \text{ Cft} \end{aligned}$$

6. Testing and developing of tubewell of size 6" I/d and above

@ Rs. 145.30 P-Cft Rs. 44461.80

upto 1.5 c.s. discharge = 72 Hours

7. Furnishing sample of water from bore hole.

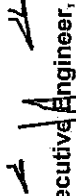
= 6 Sets

@ Rs. 183.95 P-Set Rs. 1104.00

Total Rs. 1716663

Say Rs. 1717000


Sub Divisional Officer,
Buildings Sub Division,
Toba Tek Singh..


Executive Engineer,
Buildings Division,
Toba Tek Singh.

ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTER HOSPITAL GOJRA (ADP NO.660 FOR THE YEAR 2022-23).

GENERAL ABSTACT OF COST (Revamping of Ward Ground Floor)

Sr. No.	Description	As per Rough Cost Estimate	Remarks
1	(Revamping of Ward Ground Floor	10527000	
2	PUBLIC HEALTH PORTION	410200	
	Total	10937200	

10527000 11715600/-

EXECUTIVE ENGINEER
BUILDINGS DIVISION
TOBA TEK SINGH

SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

[Signature]

Revamping of Ward Ground Floor

1 Dismantling P.C.C 1:2:4.. 1 1/2" thick.

24 Bedded ward Corri:	1	X	77 1/6	X	7 7/8	=	608	Sft
Ward	4	X	21	X	16 2/3	=	1400	Sft
Nurse station/ Single bed ward	4	X	9 7/8	X	16 7/8	=	667	Sft
Corridor Back Side	1	X	100 7/8	X	7	=	706	Sft
M.Store Passage	1	X	67 3/4	X	7	=	474	Sft
Store	1	X	9 1/2	X	8	=	76	Sft
Store	2	X	8	X	8	=	128	Sft
Store	1	X	8	X	18 1/2	=	148	Sft
Store	1	X	8	X	12	=	96	Sft
Store	1	X	17 1/2	X	12	=	210	Sft
Store	1	X	24 1/2	X	18 3/5	=	456	Sft
Cooridor	1	X	98	X	4	=	392	Sft
	1	X	26 1/4	X	4	=	105	Sft
	1	X	45	X	4	=	180	Sft
Endosopy	1	X	21	X	4	=	84	Sft
	2	X	26 3/4	X	4	=	214	Sft
	1	X	32	X	4	=	128	Sft

Total = 6072 Sft-A

$$6072 \times 0.125 = 759 \text{ Cft}$$

@ 11,174.60

84815
198563

2 Dismantling glazed or encaustic tiles, etc.

single bed ward Be	4	X	5	X	4	=	80	Sft
Clean Utility	1	X	9 7/8	X	9 7/8	=	98	Sft
SH	2	X	5	X	4	=	40	Sft
Showers	1	X	9 7/8	X	2 7/8	=	28	Sft
WC	3	X	3 1/8	X	5	=	47	Sft
	2	X	2 7/8	X	5	=	29	Sft
Bath & Wash Basin	1	X	10 3/8	X	9	=	93	Sft
Bath washing area near ramp	1	X	9 7/8	X	6 1/8	=	60	Sft
	1	X	3 3/8	X	5 3/8	=	18	Sft

Total = 493 Sft-A

Main Building Ground Floor Bath

single bed ward Be	8	X(	5	+	4	)X	5	=	360	Sft
Clean Utility	2	X(	9 7/8	+	9 7/8	)X	5	=	198	Sft
SH	4	X(	5	+	4	)X	5	=	180	Sft
Showers	2	X(	9 7/8	+	2 7/8	)X	5	=	128	Sft
WC	6	X(	3 1/8	+	5	)X	5	=	244	Sft
WC	4	X(	2 7/8	+	5	)X	5	=	158	Sft
Bath	2	X(	10 3/8	+	9	)X	5	=	194	Sft
Bath setting area near ramp	2	X(	9 7/8	+	6 1/8	)X	5	=	160	Sft
	2	X(	3 3/8	+	5 3/8	)X	5	=	88	Sft

Total = 1708 Sft-B
Total A+B = 2207 Sft

@ 2,335.85 %Sft

39896
54400

3 Removing cement or lime plaster.

Main Building Ground Floor

24 Bedded-ward C	2	x(	77 1/8	+	7 7/8	)x	5	=	850	Sft
Ward	8	x(	21	+	16 2/3	)x	5	=	1507	Sft
Nurse station/ Single bed ward	8	x(	9 7/8	+	16 7/8	)x	5	=	1070	Sft
M.Store Passage	2	x(	67 3/4	+	7	)x	5	=	748	Sft
Store	2	x(	9 1/2	+	8	)x	5	=	175	Sft
Store	4	x(	8	+	8	)x	5	=	320	Sft
Store	2	x(	8	+	18 1/2	)x	5	=	265	Sft
Store	2	x(	8	+	12	)x	5	=	200	Sft
Store	2	x(	17 1/2	+	12	)x	5	=	295	Sft
Store	2	x(	24 1/2	+	18 3/5	)x	5	=	431	Sft

Total = 5860 Sft

@ 423.30 %Cft

24806

4 Removing door with chowkat.

= 37 No

Total = 37 No

@ 438.00 Each

16206

5 Removing windows and sky lights with chowkat.

= 33 No

Total = 33 No

@ 341.50 Each

11270

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

Qty as item No.1-A+2-A 6565 x 8.122 = 1096 Cft

Total = 1096 Cft

313448
448441

@ 38,178.90

%Cft

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

Qty as item No.1-A+2-A

Door Cill	9	x	4	x	3/4	=	6565	Sft
	8	x	3 1/2	x	3/4	=	27	Sft
	6	x	3	x	3/4	=	21	Sft
	14	x	2 1/4	x	3/4	=	14	Sft
						=	24	Sft

Total = 6651 Sft

Deduction

@ 340.55 P.Sft 2264998

- 8 Providing and laying superb quality Porcelain glazed tiles skirting/ dado of MASTER brand of specified size in approved design, 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 respect as approved and directed by the Engineer Incharge (a) Full body Glazed tiles 600 mm x 600 mm.

Qty as item No.2-B = 1708 / 5 x 7 = 2391 Sft

Qty as item No.3 = = 5860 Sft

Total = 8251 Sft

Deduction

14 x 2 1/4 x 7 = 221 Sft

Total = 221 Sft

Net = 8251 - 221 = 8030 Sft
 @ 340.55 P.Sft 2734503
 2335367

- 9 Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x3/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.

7 x 6.000 x 6 = 252 Sft

6 x 3.500 x 5.5 = 116 Sft

2 x 3.500 x 3.5 = 25 Sft

2 x 6.000 x 2.833 = 34 Sft

3 x 7.250 x 6 = 131 Sft

3 x 2.000 x 7.833 = 47 Sft

1 x 6.000 x 3 = 18 Sft

2 x 8.000 x 5 = 80 Sft

4 x 8.000 x 4.5 = 144 Sft

2 x 6.000 x 2.8333 = 34 Sft

1 x 6.000 x 7.25 = 44 Sft

Total = 925 Sft

2577.85
 @ 1,348.40 P.Sft 2384541
 1247270

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

Qty as item No.8 925 / 2 = 463 Sft

Total = 463 Sft

@ 493.05 P.Sft 228036

- 11 P/F M.S grill of 3/8"x3/8" sq bar i/c M.S flat 3/4"x3/16" for frame in window of approved design 6 nos holdfast 9" long M.S iron 3/4"x3/4"x1/8" painting tree coating i/c cost of labour material complete in all respect.

Qty as item No.8 = 925 Sft

Total = 925 Sft
 854.40
 @ 506.00 P.Sft

7903201
 468050

- 12 P/F 1-1/2" thick solid flush door comprising of 2.5mm thick Deodar / Ash / Oak ply with grooves, compressed over 2.5mm thick commercial ply over 1" thick packing wood instyle and rail under proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charge, sand lacquer polishing to show the grain properly, sand papering and 3/8" thick matching wood enlipping as approved and directed by the Engineer Incharge

9	x	4	x	8 1/2	=	306	Sft
8	x	3 1/2	x	8 1/2	=	238	Sft
6	x	3	x	8 1/2	=	153	Sft
Total						= 697	Sft

- 13 Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 16 SWG welded with M.S. flat 6"x 1 1/2" x 1/8" (150 mm x 30 mm x 3 mm) M.S. holdfast 9"x 1 1/8" (225 mm x 25 mm x 3 mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: a) single rebate 10.5" wide

472949

@ 678.55 P.Sft

Qty as item No.16

= 697 Sft
 Total = 697 Sft

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

@ 624.90 P.Sft

433464

1	x	8.250	x	7	=	58	Sft
1	x	8.250	x	8.333	=	69	Sft
1	x	8.250	x	9.75	=	80	Sft
1	x	8.250	x	10.875	=	90	Sft
1	x	10.000	x	8.333	=	83	Sft
2	x	5.000	x	8.25	=	83	Sft
1	x	4.833	x	8.5	=	41	Sft
3	x	8.000	x	8.5	=	204	Sft
2	x	5.000	x	8	=	80	Sft
1	x	10.000	x	8.25	=	83	Sft
1	x	5.000	x	8.333	=	42	Sft
2	x	5.000	x	8.333	=	83	Sft
1	x	8.000	x	5	=	40	Sft
1	x	9.833	x	9.5	=	93	Sft
1	x	10.000	x	9.75	=	98	Sft
Total						= 1227	Sft

15 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 hardware, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge

14	x	2.500	x	7	=	245	Sft
Total = 245 Sft							
200							
@ 130.00 P.Sft							
1872							

45864
220500
276850

16 Preparing surface and painting with emulsion paint:- 2 coat on old surface.

Qty as item No.1-A							
Qty as item No.3	5860	/	5	x	7	=	6072 Sft
D/d 25% opening							
Take 60% without scraping	12245	-	10707	x	60%	=	6424 Sft
Take 40% after scraping	40707	x	40%			=	4283 Sft
Total = 14276 Sft							
Net 7357 Sft							
@ 2,034.65 Sft							
@ 2,339.40 %Sft							

149491
130742
400193
114580

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

Qty as item No.1-A							
Total = 233.60 %Sft							

28605
25012

18 Providing and fixing automatic hydraulic coprated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge

Total = 23 No							

108481
67436

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

7	x	6.000	x	0.75	=	32	Sft
6	x	3.500	x	0.75	=	16	Sft
2	x	3.500	x	0.75	=	5	Sft
2	x	6.000	x	0.75	=	9	Sft
3	x	7.250	x	0.75	=	16	Sft
3	x	2.000	x	0.75	=	5	Sft
1	x	6.000	x	0.75	=	5	Sft
2	x	8.000	x	0.75	=	12	Sft
4	x	8.000	x	0.75	=	24	Sft
2	x	6.000	x	0.75	=	9	Sft

1 x 6.000 x 0.75 = 5 Sft

Total = $\frac{138}{276}$ Sft

@ 412.35 P.Sft

113809 -
-56904

20 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.

= 500 Rft

Total = 500 Rft

@ 455.00 P.Rft

227500

Qty as item No.16 946 x 2 = 1894 Sft

Total = $\frac{1884}{1394}$ %Sft

@ 2,714.40

51139 37839

D/D COST OF OLD MATERIAL

* Door (Solid Flush Door)
Qty as item No.4 = 37 No 5000 Each

* Windows (Box Section)
Qty as item No.5 = 33 No 7000 Each

Total = $\frac{271000}{185000}$ ✓

231000/ -214500

416000 (-) 399500

Total = 1034729/ 10527389

Say Rs = 10527000 -10347000 = 10578189

[Signature]
SUB ENGINEER

[Signature]
SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

[Signature]
ENGINEER
Building Division
Toba Tek Singh

PUBLIC HEALTH PORTION (Revamping of Ward Ground Floor)

(Based on 2nd Bi-annual 2022)

1.	P/F, glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. Coloured.	11 No.	2458.35	Each	27042 /-
ii	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP /rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge	1 No.	19987.90	Each	19988 /-
2.	Providing and fitting glazed earthen ware wash hand basin full size white pedestal.	6 No.	5169.95	Each	31020 /-
3.	P/F, Plastic made low down flushing cistern 13.63 litres (3 glns) capacity, i/c bracket set, copper connection coloured (Faisal made 4201 Nigra Flush Tank Plastic)	11 No.	2649.35	Each	29143 /-
4.	P/F, C.P tee stop cock 1/2" dia.	14 No.	955.00	Each	13370 /-
5.	P/F, P trap 4" dia glazed.	16 No.	283.15	Each	4530 /-
6.	P/F C.P bib cock 1/2" dia.	14 No.	775.00	Each	10850 /-
7.	P/F plastic Muslim toilet Shower 1/2" dia i/c double bibcock with flexible pipe best quality complete in all respect (Master made model 2015 muslim shower 242A double bibcock).	12 No.	2212.00	Each	26544 /-
8.	i. P/F Poly Propylene Random Copolymer (PPRC) Pipe (Dadex / Beta / BBJ) PN-20 pipe 25 mm	600 Rft	66.50	P-Rft	39900 /-
	ii. -do- PN-20 pipe. 32mm	300 Rft	106.90	P-Rft	32070 /-
		200 Rft	260.60	P-Rft	52120 /-
9.	i. Providing, fixing, testing and commissioning of UPVC (Unplasticized poly vinyl Chloride) Nikasi /waste pipe make of dadex / Popular / Beta /BB Jplain. / socket end edconforming 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) 110 mm				
	ii. _do_ 60 mm.	100 Rft	88.90	P-Rft	8890 /-
10.	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	6 No.	2228.75	Each	13373 /-
11.	Providing and fixing, CB flushing bend 1 1/2"	11 No.	700.00	Each	7700 /-

12.	Providing and fixing Bathroom Accessories (7-piece set) Master brand - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.	12 No.	7600.00	Each	91200 /-
13.	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- (4"x3")	4 No.	603.95	Each	2416 /-

Total = 410156 /-
Say Rs = 410200 /-

Sub Divisional Officer
Buildings Sub Division
Toba Tek Singh

EXECUTIVE ENGINEER
Building Division
Toba Tek Singh

ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTER HOSPITAL GOJRA (ADP NO.660 FOR THE YEAR 2022-23).

ABSTACT OF COST (Revamping of O.T (FIRST FLOOR)

Sr. No.	Description	As per Rough Cost Estimate	Remarks
1	Revamping of O.T (FIRST FLOOR)	14221000/- 14700000/-	
2	PUBLIC HEALTH PORTION	157600	
	Total	14378600 14857600/-	

SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

[Signature]

EXECUTIVE ENGINEER
BUILDINGS DIVISION
TOBA TEK SINGH

[Signature]

Revamping of O.T (FIRST FLOOR)

- 1 Dismantling P.C.C 1:2:4.. 1 1/2" thick.

[illegible]

8646
40978

- 2 Dismantling glazed or encaustic tiles, etc.

Main Building First Floor

	1	x	11 1/4	x	17 1/4	Sft
Toilet	1	x	11 1/4	x	17 1/4	194
Toilet	1	x	8 11/12	x	10 1/4	91
G. Operation Ward	1	x	33 1/6	x	17 1/8	569
Total						854

Main Building First Floor

Toilet	2	x(	11 1/4	+	17 1/4	)x	5	=	285	Sft
Toilet	2	x(	8 11/12	+	10 1/4	)x	5	=	192	Sft
Coridoor	2	x	49	x	5			=	490	Sft
Coridoor	1	x	21 1/6	x	5			=	106	Sft
G. Opration Ward	2	x(	33 1/6	+	17 1/6	)x	5	=	503	Sft
Store	2	x(	10 1/4	+	8	)x	5	=	183	Sft
Store	2	x(	10 1/4	+	8 1/6	)x	5	=	184	Sft
Room	4	x(	10 1/4	+	16 11/12	)x	5	=	543	Sft
G. Opration Ward	2	x(	21	+	17 1/4	)x	5	=	383	Sft
General Store	2	x(	21 1/6	+	17 1/4	)x	5	=	384	Sft
Store	2	x(	8 11/12	+	10 1/4	)x	5	=	192	Sft
Room	2	x(	10 1/12	+	17 1/6	)x	5	=	273	Sft
Eye Op: theatre	2	x(	10 1/12	+	17 1/6	)x	5	=	273	Sft
Indoor Coridoor	2	x	81 1/6	x	5			=	812	Sft
outdoor Corid:	2	x	81 1/6	x	5			=	812	Sft

Total	=	5613	Sfl-B
Total A+B		6407	Sfl

13111-
~~451068~~

- ### 3 ~~Removing cement or lime plaster.~~

~~Main Building First Floor~~

Corridor	2	x	49	x	5	=	490	Sft
Corridor	1	x	21 1/6	x	5	=	106	Sft
G. Operation Ward	2	x	33 1/6	+	17 1/6	x	5	503
Store	2	x	10 1/4	+	8	x	5	183
Store	2	x	10 1/4	+	8 1/6	x	5	184
Room	4	x	10 1/4	+	16 1/12	x	5	543
G. Operation Ward	2	x	21	+	17 1/4	x	5	383

General Store	2	x(	21 1/6	+	17 1/4	)x	5	=	384	Sft
Store	2	x(	8 11/12	+	10 1/4	)x	5	=	192	Sft
Room	2	x(	10 1/12	+	17 1/6	)x	5	=	273	Sft
Eye Op: theathe	2	x(	10 1/12	+	17 1/6	)x	5	=	273	Sft
Indoor Corridor	2	x	81 1/6	x	5			=	812	Sft
outdoor Corid:	2	x	81 1/6	x	5			=	812	Sft

Total = 5197 Sft

@ 423.50 %Cft 21744

4 Removing door with chowkat.

= 22 No

Total = 22 No

@ 438.00 Each 9636

5 Removing windows and sky lights with chowkat.

= 14 No

Total = 14 No

@ 341.50 Each 4781

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

Qty as item No.1-A+2-A 1468 x 0.125 185 Cft

Total = 185 Cft

@ 38,178.90 %Cft 70245 93538

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

Qty as item No.1-A+2-A										
Female Changing Room	1	x	8 1/4	x	10 1/6			=	1468	Sft
Doctor Room	1	x	10 1/6	x	8 1/4			=	84	Sft
Door Cill	13	x	3 1/2	x	3/4			=	84	Sft
	7	x	5	x	3/4			=	34	Sft
	5	x	2 1/2	x	3/4			=	26	Sft
								=	9	Sft

Total = 1705 Sft

@ 340.55 P.Sft 580638

8 Providing and laying superb quality Porcelain glazed tiles skirting/ dado of MASTER brand of specified size in approved design, 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 respect as approved and directed by the Engineer Incharge (a) Full body Glazed tiles 600 mm x 600 mm.

Qty as item No.2-B = 5613 / 5 x 7 = 7859 Sft

Qty as item No.3 = = 5137 Sft
4109

Total = 42995 Sft
11968

Deduction

5 x 2 1/2 x 7 = 88 Sft

Net = 11968
42995 - 88 = 42907 Sft
@ 340.55 P.Sft

4055599
-4395509

9 Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using deluxe sections of approved manufacturer having frame size of 100 x 20 mm (4"x3/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.

First Floor 13 x 5.833 x 6 = 455 Sft

1 x 6.000 x 7.5 = 45 Sft

Total = 500 Sft

@ 1,348.40 P.Sft 674200

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

Qty as item No.8 500 / 2 = 250 Sft

Total = 250 Sft

11 P/F M.S grill of 3/8"x3/8" sq bar i/c M.S flat 3/4"x3/16" for frame in window of approved design 6 nos holdfast 9" long M.S iron 3/4"x3/4"x1/8" painting tree coating i/c cost of labour material complete in all respect.

123263

Qty as item No.13

= 500 Sft

Total = 500 Sft
853.50
@ 506.00 P.Sft

427200
2530000

12 P/F 1-1/2" thick solid flush door comprising of 2.5mm thick Deodar /Ash /Oak ply with grooves, compressed over 2.5mm thick commercial ply over 1" thick packing wood instyleand rail sunder proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charge sand lacquar polishing to showt hegrainsofply properly, sand papering and 3/8" thick matching wood enlipping as approved and directed by the Engineer Incharge

First Floor 13 x 3 1/2 x 8.5 = 387 Sft

7 x 5 x 8.5 = 298 Sft

Total = 685 Sft

- 13 Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 16 SWG welded with M.S. flat 6"x 1 1/4" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: a) single rebate 10.5" wide

Qty as item No.16

= 685 Sft

Total = 685 Sft

@ 621.90 P.Sft

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

3 x 8.000 x 8.5 = 204 Sft

2 x 5.000 x 8 = 80 Sft

Total = 284 Sft

- 15 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 hardware, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge

2 x 2.250 x 7 = 32 Sft

Total = 32 Sft

@ 1,130.00 P.Sft

- 16 Preparing surface and painting with emulsion paint:- 2 coat on old surface.

Qty as item No.1-A

= 614 Sft

Qty as item No.3

= 7191 Sft

El Room

= 720 Sft

= 300 Sft

= 240 Sft

D/d 25% opening

= 9065 Sft

Take 60% without scraping

= 2266 Sft

Take 40% after scraping

= 6799 Sft-A

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

Qty as item No.1-A

= 8799 Sft

Antistatic Homogeneous vinyl flooring size of 2mm thickness *slid from factory compartment. The flooring should be electrically resistive*
 18 Supply and installation anti microbial Hygienic 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 Epoxy. *Factory provided corner & covered corners @ 233.60 %Sft*

Gen. Operation	1	x	33 1/6	x	17 1/6	=	569	Sft
G. Operation the	1	x	21	x	17 1/4	=	362	Sft
Eye Oper. Thea	1	x	10 1/8	x	17 1/6	=	174	Sft
Delivery	1	x	21 3/4	x	17 1/4	=	375	Sft
Gyne O. T	1	x	25 1/2	x	17 3/4	=	453	Sft

Total = 1558
 @ 1,250.00 1050/-
 2029650/-
 2416250
 1635900/-

19 Providing and fixing automatic hydraulic coprated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge

						=	17	No
Total						=	17	No

20 Supply and installation of Clip-in tile (0.6 mm -0.7 mm thick) non-porous aluminium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Ship lap edge/runners @ 600 mmX600 mm grid, Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size, suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge.

						=	17	No
Total						=	17	No

Gen. Operation	1	x	33 1/6	x	17 1/6	=	569	Sft
G. Operation the	1	x	21	x	17 1/4	=	362	Sft
Eye Oper. Thea	1	x	10 1/8	x	17 1/6	=	174	Sft
Delivery	1	x	21 3/4	x	17 1/4	=	375	Sft
Gyne O. T	1	x	25 1/2	x	17 3/4	=	453	Sft

21 Supply and installation of Hygienic wall paneling system (imported) Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channel 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 (a) 2mm thick sheet size 2000 x 1200 mm

Gen. Operation	1	x	33 1/6	x	17 1/6	=	569	Sft
G. Operation the	1	x	21	x	17 1/4	=	362	Sft
Eye Oper. Thea	1	x	10 1/8	x	17 1/6	=	174	Sft
Delivery	1	x	21 3/4	x	17 1/4	=	375	Sft
Gyne O. T	1	x	25 1/2	x	17 3/4	=	453	Sft

Gen. Operation	2	x	33 1/6	x	17 1/6	=	956	Sft
G. Operation the	2	x	21	x	17 1/4	=	727	Sft
Eye Oper. Thea	2	x	10 1/8	x	17 1/6	=	518	Sft
Delivery	2	x	21 3/4	x	17 1/4	=	741	Sft
Gyne O. T	2	x	25 1/2	x	17 3/4	=	822	Sft

Total = 3764
 2023

2	x	5	x	8	=	80	Sft
3	x	4	x	8	=	96	Sft
3	x	6	x	6	=	108	Sft
						72	

Total = 284.748 Sft
Net = 2480 Sft
@ 750.00 P.Sft

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

First Floor	13	x	5.833	x	0.75	=	57	Sft
	1	x	6.000	x	0.75	=	5	Sft

Total = 62 Sft

@ 412.35 P.Sft 25566

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

First Floor	1x47	=	47.00	Rft
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Total = 47.00 Rft

@ 1,775.10 P.Rft 83430

24 Providing and fixing 22-SWG /12X12 G.I wire mesh and expanded metal (diamond hole shape) 5mm thick duly fixed with M.S patti 1"x1/8" on M.S angle iron frame 1 1/2"x1 1/2"x3/16" and braces @ 2 ft C/c horizontally & vertically i/c the cost of matt paint as approved & directed by the Engineer Incharge

F.F B/Side Corrid:	8	x	9 1/3	x	6	=	448	Sft
	1	x	6 1/3	x	6	=	38	Sft

Total = 486 Sft

@ 493.00 P.Sft 239598

25 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.

	=	300	Rft
--	---	-----	-----

Total = 300 Rft
@ 455.00 P.Rft 136500

26 Preparing surface and painting of Doors & Windows any type 3 coats on New surface.

Qty as item No.16 217 885 x 2 = 1439 1370 Sft

Total 1439 1370 Sft
@ 2,714.40 38956 37487

D/D COST OF OLD MATERIAL

* Door (Solid Flush Door)

Qty as item No.4 = 22 No 5000 Each

* Windows (Box Section)

Qty as item No.5 = 14 No 6500 Each

Total

98000 110000

98000 91000

201000 (-)

208000 201000

Total = 14221305

Say Rs = 14221000

1370000

SUB ENGINEER

SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION

TOBA TEK SINGH

ENGINEER

Building Division

Toba Tek Singh

PUBLIC HEALTH PORTION (Revamping of O.T (FIRST FLOOR)

(Based on 2nd Bi-annual 2022)

1.	P/F, glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. Coloured.	2 No.	2458.35	Each	4917 /-
ii	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP /rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge	1 No.	19987.90	Each	19988 /-
2.	Providing and fitting glazed earthen ware wash hand basin full size white pedestal.	2 No.	5169.95	Each	10340 /-
3.	P/F, Plastic made low down flushing cistern 13,63 litres (3 glns) capacity, i/c bracket set, copper connection coloured (Faisal made 4201 Nigra Flush Tank Plastic)	2 No.	2649.35	Each	5299 /-
4.	P/F, C.P tee stop cock 1/2"dia.	6 No.	955.00	Each	5730 /-
5.	P/F, P trap 4"dia glazed.	4 No.	283.15	Each	1133 /-
6.	P/F C.P bib cock 1/2" dia.	5 No.	775.00	Each	3875 /-
7.	P/F plastic Muslim toilet Shower 1/2" dia i/c double bibcock with flexible pipe best quality complete in all respect (Master made model 2015 muslim shower 242A double bibcock).	3 No.	2212.00	Each	6636 /-
8.	i. P/F Poly Propylene Random Copolymer (PPRC) Pipe (Dadex / Beta / BBJ) PN-20 pipe. 25 mm	300 Rft	66.50	P-Rft	19950 /-
	ii. -do- PN-20 pipe. 32mm	100 Rft	106.90	P-Rft	10690 /-
	ii. -do- 60 mm.	150 Rft	260.60	P.Rft	39090 /-
9.	i. Providing, fixing, testing and commissioning of UPVC (Unplasticized poly vinyl Chloride) Nikasi /waste pipe make of dadex / Popular / Beta /BB Jplain / socket end edconforming 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) 110 mm				
	ii. -do- 60 mm.	100 Rft	88.90	P.Rft	8890 /-
10.	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	2 No.	2228.75	Each	4458 /-
11.	Providing and fixing, CB flushing bend 1.1/2"	2 No.	700.00	Each	1400 /-

12. Providing and fixing Bathroom Accessories (7-piece set) Master brand - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.

Each 15200 /-

2 No. 7600.00

157596 /-

Total =

157600 /-

Say Rs =

Sub Divisional Officer
Buildings Sub Division
Toba Tek Singh

EXECUTIVE ENGINEER
BUILDING DIVISION
Toba Tek Singh

INTERNAL ELECTRIC INSTALLATION

(Based on 2nd Bi-annual 2022)

1. i.	S/E of PVC pipe wiring recessed in wells i/c inspection boxes, pull boxes cutting repairing surface 1" dia.	2500 Rft	94.60	P Rft	236500 /-
ii.	- do - 4" dia (for power cable).	700 Rft	600.00	P Rft	420000 /-
2. i.	S/E of PVC insulated copper conductor cable in pre-laid PVC M.s conduit / G.I pipe rate for cable only. 3/0.029.	6500 Rft	25.70	P Rft	167050 /-
ii.	- do - 7/0.029" PVC cable	4500 Rft	40.75	P Rft	183375 /-
iii.	- do - 7/0.044" PVC cable	5000 Rft	75.10	P Rft	375550 /- 225300 /-
iv.	- do - 7/0.064" PVC cable	3500 Rft	175.50	P Rft	614250 /-
3.	Supply and erection of copper conductor cables for serviceconnection, in pre-laid pipe/G.I. ire/trenches, etc. (rate for cable only):-PVC insulated, PVC sheathed 4 Core, 600/1000 volt armoured cable:- (19/0.083)	550 Rft	2715.80	P Rft	1493690 /-
ii	_do_ 630 mm sq (127/0.093") single core grade cable.	200 Rft	6007.30	P Rft	1201460 /-
4.	S/E of ceiling rose bakelite large size.	70 No.	66.30	Each	4641 /-
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 / Schneider, screws complete as approved and directed by the Engineer Incharge 4 gauge large	205 No.	802.50	Each	164513 /-
ii	_do_ 5 Gauge.	100 No.	946.50	Each	94650 /-
iii	_do_ 6 Gauge.	70 No.	1162.50	Each	81375 /-
iv	_do_ Fan Dimmer	100 No.	598.50	Each	59850 /-
v	_do_ Three pin Light Plug 10/13 Amp	65 No.	333.00	Each	21645 /-
6.	Earthing as per MRS specification.	6 No.	9592.65	Each	57556 /-
7.	P/F, of Exhaust fan 12" sweep with shutter (GFC / PAK / ROYAL fan) bes quality as approved by the Engineer Incharge.	15 No.	3133.00	Each	46995 /-
8.	S/E of LED light 24 watts (Philips made) complete	150 400 No.	560.00	Each	84000 /- 224000 /-
9.	SUPPLY AND ERRECTION OF LED LIGHT 2'X2' SIZE RECESSED IN FALS CEILING COMPLETE WITH 50-WATTS WITH FANCY COVER COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE	40 No.	5700.00	Each	228000 /-
10.	P/F, of Bracket fan 24" sweep with shutter (GFC / PAK / ROYAL fan) bes quality as approved by the Engineer Incharge.	50 No.	11000.00	Each	550000 /-
11.	S/E of ceiling fan 56" sweep best quality as approved by the Engineer Incharge	100 No.	7000.00	Each	700000 /-

(E.I)

12.	Erection of ceiling fan along with regulator complete in all respect.	100 No	462.50	Each	46250/-
13.	Repainting of ceiling fan (all sizes and types), including painting of blades, canopy, suspension rod and regulator, with suitable enamel paint.	150 No	178.35	Each	26753/-
14.	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified gauge, size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, and hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge 16"x4"	400 Rft	1276.85	P.Rft	510740/-
ii	_do_ 12"x4"	200 Rft	1090.65	P.Rft	218130/-
15.	Low voltage switch gear system complete in all respect.	1 Job	26500000	P.Job	26500000/-
16.	Making holes in brick masonry wall 6" to 6 size for AC vent pipe.	40 No	400	Each	16000/-
17.	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. ire/trenches, etc. (rate for cable only):- d). PVC insulated, PVC sheathed 4 Core, 600/1000 volt armoured cable:- 16 mm sq (7/0.064)	1000 Rft	816.00	P.Rft	816000/-
ii	_do_ 25 mm sq (19/0.052)	1500 Rft	1340.70	P.Rft	2011050
iii	_do_ 70 mm sq (19/0.083)	200 Rft	2715.80	P.Rft	543160
iv	_do_ 120 mm sq (37/0.083)	300 Rft	4709.90	P.Rft	1422970
v	_do_ 185 mm sq (37/0.103)	200 Rft	7241.65	P.Rft	1448330
18.	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- 50 mm sq (19/0.072")	150 Rft	466.55	P.Rft	69983/-
ii	_do_ 25 mm sq (19/0.052")	300 Rft	254.60	P.Rft	76380/-
iii	_do_ 6 mm sq (7/0.044")	500 Rft	117.70	P.Rft	58850/-

12. Earthing of iron clad/aluminum switches, etc. with G.I. wire No.8 SWG in G.I. pipe 15 mm (1/2") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.

50
642 Job 9592.65 P.Job

479632-
5870792 /-


D/d old material
ceiling fan = 100-No @23000/- and cable


Total

(-)

Total

Say


Sub Divisional Officer
Buildings Sub Division
Toba Tek Singh


ENGINEER
BUILDING Division
Toba Tek Singh

60167814/
44579286
50794558 /-

300000 /-
200000

50584558 /-
4079286

50585000 /-

4479286 /-
42086800 /-
330980047 /-

ANALYSIS OF RATE FOR LOW VOLTAGE SWITCHGEAR

(Based on 2nd Bi-annual 2022)

1. LOW VOLTAGE SWITCHGEAR (GIRLS HOSTEL) Complete in all aspect as per your Requirements (Quotation Attached)

1 Job 20044000 P.Job

20044000/-

248766/-
248766/-

Total = 20044000/-

Add 17% G.S.T

3407450/-
3719288/-

Total = 23451480/-

2566184/-

Add 13% Contractor profit+ O.H. Charges

3048692/-

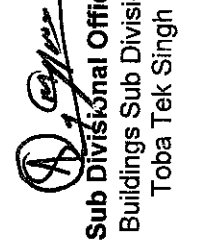
3200198/-

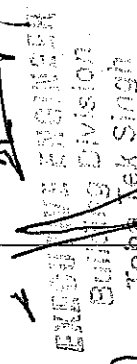
Total = 26500172/-

28807782/-

Say -26500000/-

28801200/-


Sub Divisional Officer
Buildings Sub Division
Toba Tek Singh


EXECUTIVE ENGINEER
BUILDING DIVISION
Toba Tek Singh

PERFECT ELEKTRO MEK PAKISTAN (PVT.) LIMITED

Ref: D/FM/449623/14103
Muharram 25, 1444AH.
August 24, 2022.

Messer,
THE EXECUTIVE ENGINEER,
Building Department (PWD)
Gojra-Pakistan.

Subject:
Project:

QUOTATION FOR LOW VOLTAGE SWITCHGEAR.
REVAMPING OF THQ HOSPITAL-GOJRA

Dear Sir,

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

- This Covering Letter.
- Schedule of Prices.
- Schedule of Specification.

The summary of our offer is as under.

Sr.	Description	Amount
01	LOW VOLTAGE SWITCHGEAR : (Complete In All Aspect as Per Given Specifications)	20,044,000.00
Total Amount of Offer (Excluding GST):		Pak Rs. 20,044,000.00
17% Add GST:		Pak Rs. 3,407,480.00
Net Amount of Offer (Including GST):		Pak Rs. 23,451,480.00
Pak Rupees: Twenty-Three Million Four Hundred Fifty-One Thousand Four Hundred Eighty-Only		

This offer is based on the following Terms and conditions:

- ❖ The prices Ex-works duly Packed for inland transportation.
- ❖ Payment will be 50% advance, balance after final inspection to your entire satisfaction against delivery at our floor.
- ❖ The completion period will be 8-10 weeks after the technically and financially confirmed order.
- ❖ The equipment will be under complete Guarantee/Warranty for the period of one year.
- ❖ The prices are valid for 2 weeks afterwards subject to the reconfirmation.
- ❖ The components offered are subject to the availability otherwise approved equivalent.
- ❖ The standard and latest amended Force Majeure clause will be fully applicable throughout the contract.
- ❖ The offer is based on the present duties/Taxes structure. Any change will be charged at actual.

It may be your interest that the equipment being offered is with total quality control features for trouble free and long life field performance equipped with field tested components backed by the quality of commitment, the real essence of PEMPAK

We are confident that the offer will meet your requirement and your valued order will be placed on us. Please feel free to contact us for any further information on the subject. We will be pleased to come up to your convenience.

Thanking you in Anticipation.

Perfectly yours,

Arshad

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

ENGINEER
Building Division
Woba Far Singh

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

PEMPAK

Plot No 4, Adj. ATS Lane, Kacha Industrial Estate,
4-Km Kahna Kacha Road, Lahore - Pakistan.
UAN: +92-42-111-736725 (111-PEMPAK)
Ph: +92-42-3597-8060-53
E-mail: info@pempak.com http://www.pempak.com

PERFECTION WITH CONVENIENCE

SCHEDULE OF PRICES FOR LOW VOLTAGE SWITCHGEAR

Project: Revamping of THQ HOSPITAL-GOJRA

PRICES:

Sr.	Description	Qty.	Rate	Amount
LOW VOLTAGE SWITCHGEAR				
01	800A MAIN SWITCH BOARD (For 400KVA T/F-1)	01 Set.	664,000.00	664,000.00
02	1250A MAIN SWITCH BOARD (For 630KVA T/F-2)	01 Set.	778,000.00	778,000.00
03	MAIN LT PANEL	01 Set.	14,003,000.00	14,003,000.00
04	SUB MAIN PANEL BOARD-Normal (SMPB-FF)	01 Set.	361,000.00	361,000.00
05	DISTRIBUTION BOARD-(PDB)	05 Sets.	115,000.00	575,000.00
06	SUB MAIN PANEL BOARD-Normal (SMPB-GF)	01 Set.	407,000.00	407,000.00
07	DISTRIBUTION BOARD-(PDB)	10 Sets.	115,000.00	1,150,000.00
08	SUB MAIN PANEL BOARD-Emergency (SMPB-FF)	01 Set.	289,000.00	289,000.00
09	DISTRIBUTION BOARD-(LDB)	05 Sets.	99,000.00	495,000.00
10	SUB MAIN PANEL BOARD-Emergency (SMPB-GF)	01 Set.	332,000.00	332,000.00
11	DISTRIBUTION BOARD-(LDB)	10 Sets.	99,000.00	990,000.00
Total Amount of Offer (Excluding GST):			Pak Rs.	20,044,000.00

Total Amount of Offer All Equipment (Excluding GST):	Pak Rs.	20,044,000.00
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Engr. Muhammad Arshad
Sr. Sales Engineer
0345-400-9982

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

RECEIVED
ENGINEER
BUILDING DIVISION
T. S. S. Singh

SCHEDULE OF SPECIFICATION FOR LOW VOLTAGE SWITCHGEAR.**Project: Revamping of THQ HOSPITAL-GOJRA**

LOW VOLTAGE SWITCHGEAR: PEMPAK make, 14/16SWG mild steel sheet fabricated, free standing wall/floor mounting, indoor type, front access, insulation class 600Volts, Incoming and outgoing connections from Top or bottom as per site requirement, door to body earth with flexible copper cable suitable for 415VAC, 3 Phase 4 wire, 400/230 50Hz TPN&E system, having rated service short circuit breaking capacity Icu of 65KA I/C at 415VAC conforming to IEC-947-2 to accommodate the given number of circuit components, instruments & Accessories, assembled and wired with Electrolytic Copper Bus bars at 50deg Centigrade and cables as per standard practices and relevant standards duly cleaned down to bare shining metal phosphate and powder painted of color RAL-7032 complete in all respect as per given specifications with your requirement and equipped as under.

01 800A MAIN SWITCH BOARD-(For 400KVA T/F-01)

01-SET.		
Sr.	Description of Components	Quantity
A	INCOMING	
01	800A TP MCCB 50kA Adj.	01 No.
02	Surge Protective Device 4P (SPD)	01 No.
03	Digital Volt Meter	01 No.
04	Digital Ampere Meter	01 No.
05	Current Transformer 800/5A	03 Nos.
06	Ampere Selector Switch	01 No.
07	Volt Selector Switch	01 No.
08	Phase Indication Lamps (R+Y+B)	03 Nos.
09	6A Control MCB for Protection	03 Nos.

02 1250A MAIN SWITCH BOARD-(For 630KVA T/F-02)

01-SET.		
Sr.	Description of Components	Quantity
A	INCOMING	
01	1250A TP MCCB 50kA Adj.	01 No.
02	Surge Protective Device 4P (SPD)	01 No.
03	Digital Volt Meter	01 No.
04	Digital Ampere Meter	01 No.
05	Current Transformer 1200/5A	03 Nos.
06	Ampere Selector Switch	01 No.
07	Volt Selector Switch	01 No.
08	Phase Indication Lamps (R+Y+B)	03 Nos.
09	6A Control MCB for Protection	03 Nos.

03 MAIN LT PANEL

01 SET.		
Sr.	Description of Each Component	Quantity
A	400A ATS PANEL	
A	INCOMING FROM 200KVA GEN-1	
01	400A 4P MCCB 36kA	01 No.
02	400A 4P Magnetic Contactor-AC3	01 No.
03	ATS Module	01 No.
04	Digital Ampere Meter	01 No.
05	Ampere Selector Switch	01 No.
06	Digital Volt Meter 0-600V	01 No.
07	Volt Selector Switch	01 No.
08	Current Transformer 400/5A	06 Nos.
09	Phase Indication Light (R+Y+B+OFF+ON)	05 Nos.
10	ON/OFF Push Button	02 Nos.
11	Auto/Manual Switch	01 No.
12	Miniature Relay with Base	02 Nos.
13	Battery and Battery Charger	01 No.
14	6A Control MCB for Instrument Protection	03 Nos.
15	Electrical Inter-Locking System	01 Job.

Quotation for L.V Switchgear.
M/s: The Executive Engineer.
Ref: D/FM/449623/14103 Dated: 24-08-22

B INCOMING FROM 100KVA GEN-2			
01	400A 4P MCCB 36kA	Terasaki/Schneider.	S400CJ
02	400A 4P Magnetic Contactor-AC3	Terasaki/Schneider.	TC4-400a
03	Digital Ampere Meter	Entes/Camsco/Equ	96x96mm
04	Ampere Selector Switch	GGT/ Camsco/Equ	4-Position
05	Digital Volt Meter 0-600V	Entes/Camsco/Equ	96x96mm
06	Volt Selector Switch	GGT/ Camsco/Equ	4-Position
07	Current Transformer 400/5A	Metelx/Fico/Equ	LVP
08	Phase Indication Light (R+Y+B+OFF+ON)	Himel/ Schneider	LED Type
09	ON/OFF Push Button	Himel/ Schneider	22mm
10	Auto/Manual Switch	GGT/Camsco/Equ	3-Step
11	Miniature Relay with Base	Finder/Equ	8-Pin
12	6A Control MCB 6kA for Instrument Protection	Terasaki/Schneider.	EPC
C OUTGOING			
01	250A TP MCCB 25kA For SMPB-FF For (Emergency)	Terasaki/Schneider	E250SF
02	250A TP MCCB 25kA (SPARE)	Terasaki/Schneider	E250SF
03	150A TP MCCB 25kA (SPARE)	Terasaki/Schneider	S160SCF
D BUS COUPLER-1			
01	400A 4P Magnetic Contactor-AC3	Terasaki/Schneider.	TC4-400a
02	Miniature Relay with Base	Finder/Equ	8-Pin
03	ON/OFF Push Button	Himel/ Schneider	22mm
04	Indication Lights (ON/OFF)	Terasaki/Schneider	Led Type
05	6A Control MCB for Protection	Terasaki/Schneider	EPC
E Incoming From 400KVA Transformer-1			
01	800A TP ACB 65kA	Terasaki/Schneider	AR208S
02	Motor Mechanism for ACB	Terasaki/Schneider	MOM
03	Under Voltage Trip for ACB	Terasaki/Schneider	UVT
04	Shunt Trip Coil for ACB	Terasaki/Schneider	ST
05	Digital Voltmeter 0-600V	Entes/Camsco/Equ	96mmX96mm
06	Volt Selector Switch	GGT/Camsco/Equ	4 Position
07	Digital Ampere Meter	Entes/Camsco/Equ	96mmX96mm
08	Ampere Selector Switch	GGT/Camsco/Equ	4 Position
09	Current Transformer 800/5A	Metelx/Fico/Equ	LVP
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type
11	ON/OFF Push Button	Himel/ Schneider	22mm
12	6A Control MCB for Protection	Terasaki/Schneider	EPC
F OUTGOING			
01	400A TP MCCB 25kA For (SMPB-FF Normal)	Terasaki/Schneider	E400NF
02	400A TP MCCB 25kA (To Existing SMPB 400A)	Terasaki/Schneider	E400NF
03	250A TP MCCB 25kA (SPARE)	Terasaki/Schneider	E250SF
G 200KVAR PFI PLANT			
01 SET.			
01	Power Factor Capacitor 12.5kVAR	Enerlux/Equ.	PRT. 4412
02	Power Factor Capacitor 25kVAR	Enerlux/Equ.	PRT. 4425
03	Mag. Contactor 22A-AC3 for 12.5kVAR	Terasaki/Schneider	TC-22b
04	Mag. Contactor 50A-AC3 for 25kVAR	Terasaki/Schneider	TC-50a
05	HRC Fuses with bases 32A	DF Elec/Equ.	Double Zero
06	HRC Fuses with bases 63A	DF Elec/Equ.	12 Nos.
07	Reactive Power Factor Controller.	Entes/Equ.	12-Steps.
08	ON/OFF Push Button.	Terasaki/Schneider	22MM
09	ON Indication.	Terasaki/Schneider	22MM
10	Auxiliary Contactor (4NO+4NC).	Togami/Schneider/Equ.	AK-8JS44
11	6A Control MCB for Protection	Terasaki/Schneider	EPC
12	Current Transformer 800/5A	Metelx/Fico/Equ	LVP
13	Auto/Manual Switch.	GGT/Camsco/Equ	3 Position
14	Surge Suppressors.		PENPAK.
15	Exhaust Fan with Dust Cassettes.		220VAC
16	Temperature Regulator 0-50c	Imported.	

Quotation for L.V Switchgear.

M/s: The Executive Engineer

Ref: D/FM/449623/14103 Dated: 24-08-22

H	BUS COUPLER-2				
01	800A TP ACB 65KA	Terasaki/Schneider	AR208S		01 No.
02	Motor Mechanism for ACB	Terasaki/Schneider	MOM		01 No.
03	Under Voltage Trip for ACB	Terasaki/Schneider	UVT		01 No.
04	Shunt Trip Coil for ACB	Terasaki/Schneider	ST		01 No.
05	Indication Lights (ON+OFF)	Terasaki/Schneider	Led Type		02 Nos.
06	ON/OFF Push Button	Himel/ Schneider	22mm		02 Nos.
07	6A Control MCB for Protection	Terasaki/Schneider	EPC		03 Nos.
I	Incoming From 200KVA Transformer-2				
01	1250A TP ACB 65KA	Terasaki/Schneider	AR212S		01 No.
02	Motor Mechanism for ACB	Terasaki/Schneider	MOM		01 No.
03	Under Voltage Trip for ACB	Terasaki/Schneider	UVT		01 No.
04	Shunt Trip Coil for ACB	Terasaki/Schneider	ST		01 No.
05	Digital Voltmeter 0-600 V	Entes/Camsco/Eqv	96mmX96mm		01 No.
06	Volt Selector Switch	GGT/Camsco/Eqv	4 Position		01 No.
07	Digital Ampere Meter	Entes/Camsco/Eqv	96mmX96mm		01 No.
08	Ampere Selector Switch	GGT/Camsco/Eqv	4 Position		01 No.
09	Current Transformer 1200/5A	Metelx/Fico/Eqv	LVP		03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type		05 Nos.
11	ON/OFF Push Button	Himel/ Schneider	22mm		02 Nos.
12	6A Control MCB for Protection	Terasaki/Schneider	EPC		03 Nos.
J	OUTGOING				
01	400A TP MCCB 25KA For (SMPB-GF Normal)	Terasaki/Schneider	E400NF		01 No.
02	400A TP MCCB 25KA (To Existing SMPB 400A)	Terasaki/Schneider	E400NF		01 No.
03	250A TP MCCB 25KA (SPARE)	Terasaki/Schneider	E250SF		02 Nos.
K	200KVAR PFI PLANT		01 SET.		
01	Power Factor Capacitor 12.5kVAR	Enerlux/Eqv.	PRT.4412		04 Nos.
02	Power Factor Capacitor 25kVAR	Enerlux/Eqv.	PRT.4425		06 Nos.
03	Mag. Contactor 22A-AC3 for 12.5kVAR	Terasaki/Schneider	TC-22b		04 Nos.
04	Mag. Contactor 50A-AC3 for 25kVAR	Terasaki/Schneider	TC-50a		06 Nos.
05	HRC Fuses with bases 32A	DF Elec/Eqv.	Double Zero		12 Nos.
06	HRC Fuses with bases 63A	DF Elec/Eqv.			18 Nos.
07	Reactive Power Factor Controller.	Entes/Eqv.	12-Steps.		01 No.
08	ON/OFF Push Button.	Terasaki/Schneider	22MM		20 Nos.
09	ON indication.	Terasaki/Schneider	22MM		10 Nos.
10	Auxiliary Contactor (4NO+4NC).	Togami/Schneider/Eqv.	AK-8JS44		03 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC		03 Nos.
12	Current Transformer 1200/5A	Metelx/Fico/Eqv	LVP		01 No.
13	Auto/Manual Switch.	GGT/Camsco/Eqv	3 Position		01 No.
14	Surge Suppressors.		PEMPAK.		30 Nos.
15	Exhaust Fan with Dust Cassettes.				01 No.
16	Temperature Regulator 0-50c	Imported.	220VAC		01 No.
L	BUS COUPLER-3				
01	1250A TP ACB 65KA	Terasaki/Schneider	AR208S		01 No.
02	Motor Mechanism for ACB	Terasaki/Schneider	MOM		01 No.
03	Under Voltage Trip for ACB	Terasaki/Schneider	UVT		01 No.
04	Shunt Trip Coil for ACB	Terasaki/Schneider	ST		01 No.
05	Indication Lights (ON+OFF)	Terasaki/Schneider	Led Type		02 Nos.
06	ON/OFF Push Button	Himel/ Schneider	22mm		02 Nos.
07	6A Control MCB for Protection	Terasaki/Schneider	EPC		03 Nos.
M	GENERATOR SYNCHRONIZATION PANEL				
01	800A TP ACB 65KA From (Gen-3)	Terasaki/Schneider	AR208S		01 No.
02	400A TP MCCB 36KA From (Gen-4)	Terasaki/Schneider.	S400CJ		01 No.
03	400A 4P Magnetic Contactor-AC3	Terasaki/Schneider.	TC4-400a		01 No.
04	Synchronizing & Load Sharing Module with (Battery and Battery Charger)	Deep Sea/Eqv	DSE 8610		02 Nos.
05	Motor Mechanism for ACB.	Terasaki/Schneider	MOM		02 Nos.
06	Under Voltage Trip for ACB.	Terasaki/Schneider	UVT		02 Nos.
07	Shunt Trip Coil for ACB.	Terasaki/Schneider	ST		04 Nos.
08	Miniature Relay	Finder/Eqv	8Pin		08 Nos.
09	Digital Ampere Meter	Entes/Camsco/Eqv	96x96MM		02 Nos.
10	Ampere Selector Switch	GGT/Camsco/Eqv	4-Position		02 Nos.

PEMPAK

11	Digital Volt Meter	Entes/Camsco/Eqv	96x96MM	02 Nos.
12	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	02 Nos.
13	Current Transformer. 800/5A.			06 Nos.
14	Current Transformer. 400/5A.	Metelx/Fico/Eqv	LVP	06 Nos.
15	Auto/Manual Switch	Camsco/GGT/Eqv	3-Positions	02 Nos.
16	On/Off Push Buttons	Himel/Schneider/Eqv	22MM	04 Nos.
17	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	10 Nos.
18	6A Control MCB for Instrument Protection.	Terasaki/Schneider	EPC	06 Nos.
N	OUTGOING			
01	250A TP MCCB 25KA For SMPB-GF For (Emergency)	Terasaki/Schneider	E250SF	01 No.
02	250A TP MCCB 25KA (SPARE)	Terasaki/Schneider	E250SF	01 No.
03	150A TP MCCB 25KA (SPARE)	Terasaki/Schneider	S160SCF	02 Nos.

04 SUB MAIN PANEL BOARD (SMPB-FF Normal)

		01-Set		
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Digital Ampere Meter 0~400A	Entes/Camsco/Eqv	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico/Eqv	LVP	03 Nos.
07	Indication Lights (R+Y+B)	Himel/Schneider	Led Type	03 Nos.
08	6A Control Fuse for Protection.	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 10KA For DB's	Terasaki/Schneider	E100SF	05 Nos.
02	100A TP MCCB 10KA (SPARE)	Terasaki/Schneider	E100SF	03 Nos.

05 DISTRIBUTION BOARD (PDB)

		05-Sets		
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Indication Lights (R+Y+B)	Himel/Schneider	Led Type	03 Nos.
05	6A Control Fuse for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.
02	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
03	25A TP MCB 6KA	Terasaki/Schneider	EPC	01 No.

06 SUB MAIN PANEL BOARD (SMPB-GF Normal)

		01-Set		
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Volt Meter 0~600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Digital Ampere Meter 0~400A	Entes/Camsco/Eqv	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico/Eqv	LVP	03 Nos.
07	Indication Lights (R+Y+B)	Himel/Schneider/Eqv	Led Type	03 Nos.
08	6A Control Fuse for Protection.	Terasaki/Schneider/Eqv	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 10KA For DB's	Terasaki/Schneider	E100SF	10 Nos.
02	100A TP MCCB 10KA (SPARE)	Terasaki/Schneider	E100SF	01 No.

PEMPAK**07 DISTRIBUTION BOARD (PDB)**

10-Sets				
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Volt Meter 0-600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Indication Lights (R+Y+B)	Himel/Schneider/Eqv	Led Type	03 Nos.
05	6A Control Fuse for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	21 Nos.
02	20A DP MCB 6KA	Terasaki/Schneider	EPC	02 Nos.
03	25A TP MCB 6KA	Terasaki/Schneider	EPC	01 No.

08 SUB MAIN PANEL BOARD (SMPB-FF Emergency)

01-Set				
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E250SF	01 No.
02	Digital Volt Meter 0-600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Digital Ampere Meter	Entes/Camsco/Eqv	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
06	Current Transformer 250/5A	Metek/Fico/Eqv	LVP	03 Nos.
07	Indication Lights (R+Y+B)	Himel/Schneider/Eqv	Led Type	03 Nos.
08	6A Control Fuse for Protection.	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 10KA For DB's	Terasaki/Schneider	E100SF	05 Nos.
02	63A TP MCCB 10KA (SPARE)	Terasaki/Schneider	E100SF	03 Nos.

09 DISTRIBUTION BOARD (LDB)

05-Sets				
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	63A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Volt Meter 0-600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Indication Lights (R+Y+B)	Himel/Schneider/Eqv	Led Type	03 Nos.
05	6A Control Fuse for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

10 SUB MAIN PANEL BOARD (SMPB-GF Emergency)

01-Set				
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E250SF	01 No.
02	Digital Volt Meter 0-600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Digital Ampere Meter 0-250A	Entes/Camsco/Eqv	96x96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
06	Current Transformer 250/5A	Metek/Fico/Eqv	LVP	03 Nos.
07	Indication Lights (R+Y+B)	Himel/Schneider/Eqv	Led Type	03 Nos.
08	6A Control Fuse for Protection.	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 10KA For DB's	Terasaki/Schneider	E100SF	10 Nos.
02	63A TP MCCB 10KA (SPARE)	Terasaki/Schneider	E100SF	01 No.

11 DISTRIBUTION BOARD (LDB)

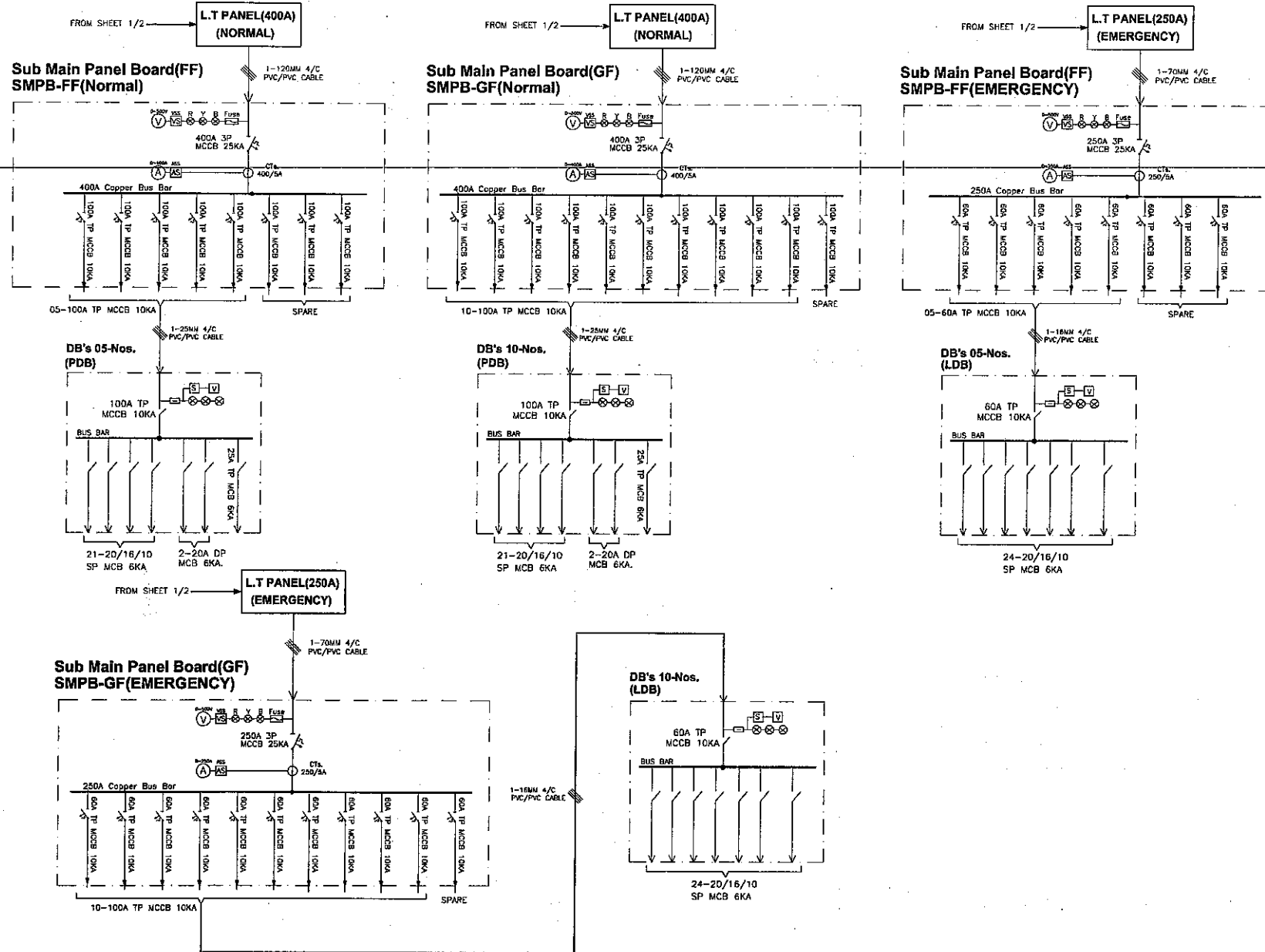
10-Sets				
Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	63A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Volt Meter 0-600V	Entes/Schneider/Eqv	96x96mm	01 No.
03	Volt Selector Switch	GGT/Camsco/Eqv	4-Position	01 No.
04	Indication Lights (R+Y+B)	Himel/Schneider/Eqv	Led Type	03 Nos.
05	6A Control Fuse for Protection.	Terasaki/Schneider	MCB Type	03 Nos.
B	OUTGOING			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

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

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

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BUILDING DIVISION
GOJRA
24/08/2022

Handwritten signatures and initials.

DES.	NAME	REV.	DATE	AUTH.	MANUFACTURER	CLIENT	TITLE	DOCUMENT NO.	LOCATION	TYPE
DRAWN	Asif Mahmood				PERFECT ELEKTRO MEK PAKISTAN (PVT.) LTD.	The Executive Engineer	Single Line Diagram Of	312118/11089	D/DWR/AS	DRAWING
CHECKED	Engr. Ahmad Fawad				25-A, PERFECT HOTEL 21-KM PERKIN ROAD LAHORE PAKISTAN BANK-HOUSE-11-72623111-PHUNO PAK-HOUSE-2024-117 Email: info@perfectmek.com Web: www.perfectmek.com	Building Department (PWD)	Project: THQ hospital Gojra.	SCALE	SHEET NO.	DATE
DESIGNED	Engr. M. Azhar					Gojra-Pakistan.		NOT SCALE	2/2	24/08/2022
	Engr. M. Arshad									

LAYING OF TUFF TILES PATHWAYS & CARPATED ROAD.

2 Providing and fixing tuff paver (tile) 60mm thick with 7000-PSi crushing strength (Izhar paver pvt.) i/c grouting with sand In joints complete in all respect and as approved by the Engineer Incharge

Road Side	1	X	151.000	X	5.75	=	868	Sft
	1	X	151.000	X	3.5	=	529	Sft
	1	X	122.000	X	14.5	=	1769	Sft
	1	X	81.000	X	5.625	=	456	Sft
	1	X	81.000	X	4.25	=	344	Sft
	1	X	65.000	X	11	=	715	Sft
	1	X	20.000	X	4	=	80	Sft
	1	X	30.000	X	6	=	180	Sft
	1	X	100.000	X	8	=	800	Sft
	1	X	100.000	X	10.5	=	1050	Sft
	1	X	90.000	X	10	=	900	Sft
	1	X	80.000	X	4.75	=	380	Sft
	1	X	210.000	X	9	=	1890	Sft
	1	X	48.000	X	13	=	624	Sft
	1	X	72.000	X	19	=	1368	Sft
	1	X	72.000	X	9.75	=	702	Sft
	1	X	384.000	X	17	=	6528	Sft
	1	X	60.000	X	6	=	360	Sft
	1	X	64.000	X	68	=	4352	Sft
	1	X	100.000	X	7	=	700	Sft
Parking Area	1	X	96.000	X	36.5	=	3504	Sft
	1	X	95.000	X	101	=	9595	Sft
	1	X	110.000	X	10	=	1100	Sft

Total = 38794 Sft

124.5

@ 155-40

3 Providing and Laying sub base course of stone peodust of approved quality and grade i/c placing, mixing, speading and compaction of sub base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density i/c carriage of all material to site of work.

38794 X 0.25

19397

= 9699 Cft

Total = 9699 Cft

@ 17,720.00

%Cft

Total =

Say Rs =

Subbar
SUB ENGINEER

Subbar
SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

Subbar
SUB DIVISIONAL OFFICER
BUILDINGS DIVISION
TOBA TEK SINGH

5323823
6067302

3437148
1918663
4742486
7786044

6742007
8466971

ABSTRACT OF COST

EVEMPING OF ROAD IN TEHSIL HEADQUARTER HOSPITAL (THQ) GOJRA DISTRICT TOBA TEK SINGH, LENGTH = 1791

RFT

Sl. No.	Description of items	Quantity	Rate	Unit	Amount
---------	----------------------	----------	------	------	--------

1	Dismantling dry brick masonry i.e. existing road edging 3" wide & 9" deep brick on end.	672 Cft	863.50	P. % Cft	5803 /-
2	Scarifying old road surface including removal of debris within 1 chain	7103 Sft	428.30	P. % Sft	30067 /-
3	Providing and laying road edging of 3" wide and 9" deep brick on edge complete in all respect.	3582 Rft	52.80	P. Rft	189130 /-
4	Providing & Laying Base Course of crushed stone aggregate from Kirana quarry of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all materials to site of work, complete in all respect.	9471 Cft	22927.62	P. % Cft	2171475 /-
5	Providing and laying bituminous priming-coat ^{tack} using 10 Lbs carosin oil and 10 lbs binder per 100 Sft	28413 Sft	2293.45 ^{712.75}	P. % Sft	651638 /- ^{208514 /-}
6	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. 4.5% Bitumen (2" Thick)	28413 Sft	15228.62	P. % Sft	4326908 /-

Description of items

Quantity

Rate

Unit

Road Structure

Providing and laying 1.50 mm thick road Lane Marking with thermoplastic paint i/c the cost of porter / balloting / glass beads for retro-reflective visibility in the ratio of 250 grms / Sq. meter etc. complete in all respect.	4033 Rft	48.20	Each	194391 /-
Providing & fixing Cat Eyes of size 4" x 4" x 3/4" of approved quality & shape etc complete.	287 Nos.	453.80	Each	130241 /- 2008455/- 4854054/-

Total:-

76996653 /-

5443 Nos. 6300.00 P.%oNos 34292 /-

269 Cft 3720.00 P.%Cft 9999 /-

D/d Bricks 501 x 60% x 13.50 = 4058 Nos.
D/d Brick Bats 501 x 40% = 200 Cft

Total:-

7655361 /-

Say Rs.

7655000 /-

Rs. in Million

7.655 M

SUB DIVISIONAL OFFICER
Building Sub Division
Taha Tek Singh

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BUILDING SUB DIVISION
Taha Tek Singh

DETAIL OF QUANTITY

WORKING OF ROAD IN TEHSIL HEADQUARTER HOSPITAL (THQ) TEHSIL GOJRA
DISTRICT TOBA TEK SINGH, LENGTH = 1791 RFT

Length of road

=	151 Rft	4" Overlay on Existing 10' wide Carpet road
=	122 Rft	4" Overlay on Existing 10' wide Carpet road
=	81 Rft	4" Overlay on Existing 13' wide Carpet road
=	77 Rft	4" Overlay on Existing 10' wide Carpet road
=	22 Rft	4" Overlay on Existing (18'+16')/2' wide Carpet road
=	27 Rft	4" Overlay on Existing 36' wide Carpet road
=	76 Rft	4" Overlay on Existing 17' wide Carpet road
=	100 Rft	4" Overlay on Existing 10' wide Carpet road
=	156 Rft	4" Overlay on Existing 28' wide Carpet road
=	210 Rft	4" Overlay on Existing 16' wide Carpet road
=	105 Rft	4" Overlay on Existing 9' wide Carpet road
=	79 Rft	4" Overlay on Existing 16' wide Carpet road
=	49 Rft	4" Overlay on Existing (32'+66')/2' wide Carpet road
=	80 Rft	4" Overlay on Existing (31'+42')/2' wide Carpet road
=	458 Rft	4" Overlay on Existing 11' wide Carpet road
Total	= 1791 Rft	

Dismantling dry brick masonry i.e. existing road edging 3" wide & 8" deep brick on end

2x1791x0.25x0.75 = 672 CR

Total = 672 CR

572 CR

Gravel 10/20 old road surface including removal of debris within 1 chain

151x10 = 1510 Sft

122x10 = 1220 Sft

1x55x25x4/12 = 1456 Cft
 1x210x16x4/12 = 1120 Cft
 1x165x85x4/12 = 298 Cft
 1x79x16x4/12 = 421 Cft
 1x49x(32+66)/2x4/12 = 800 Cft
 1x80x(31+42)/2x4/12 = 973 Cft
 1x456x11x4/12 = 1872 Cft
 Total:- = 9471 Cft

look
 providing and laying bituminous priming coat, using 10 Lbs carosin oil and
 10 lbs binder per 100 Sft

9471 Cft

1x151x10 = 1510 Sft
 1x122x10 = 1220 Sft
 1x81x13 = 1053 Sft
 1x77x10 = 770 Sft
 1x22x(18+16)/2 = 374 Sft
 1x27x36 = 972 Sft
 1x75x17 = 1292 Sft
 1x100x10 = 1000 Sft
 1x156x28 = 4368 Sft
 1x210x16 = 3360 Sft
 1x105x8.5 = 893 Sft
 1x79x16 = 1264 Sft
 1x49x(32+66)/2 = 2401 Sft
 1x80x(31+42)/2 = 2920 Sft
 1x456x11 = 5016 Sft
 Total:- = 28413 Sft

28413 Sft

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

As per Item No. 5 = 28413 Sft
 Total:- = 28413 Sft

28413 Sft

Structure
 and laying 150 mm thick road lane Marking with
 plastic paint to the cost of potter /ballotini /glass beads for
 reflective visibility in the ratio of 250 gms / Sq.meter etc.
 include in all respect

Low Line	2x1791 =	3582 Rft
White Line	2x27x15/40 =	20 Rft
White Line	2x156x15/40 =	117 Rft
White Line	2x210x15/40 =	158 Rft
White Line	2x79x15/40 =	59 Rft
White Line	2x49x15/40 =	37 Rft
White Line	2x80x15/40 =	60 Rft
Total:-	=	4033 Rft

4033 Rft

Providing & fixing Cat Eyes of size 4" x 4" x 3/4" of
 approved quality & shape etc complete.

2x1791x2/25 =	287 Nos
<hr/>	
Total:-	= 287 Nos

287 Nos.

[Signature]
 Sub Engineer

[Signature]
 Sub Engineer
 Building Division
 Toba Tek Singh

[Signature]
 Sub Divisional Officer,
 Highway Sub Division, T.T.Singh

[Signature]
 Executive Engineer
 Building Division
 Toba Tek Singh

ANALYSIS OF RATE FOR 2" CARPET

DESCRIPTION OF ITEM

1st JULY-2021 to 31st DECEMBER 2021

ing and laying plant premixed bituminous carpet, including compaction and finishing to
d camber, grade and density. 4.5% Bitumen.

1st JULY-2021 to 31st DECEMBER 2021

Carpet 4.5%

Subsequent carriage from Kirana Quarry to

Site of work

Lead 122 Km 57.25 x 1089

122-10x30-45+769-25/100x8.225

G. Total: -

P. %Sft

4507.40	4507.40
6697.35	6697.35
616.96	616.96
343.78	343.78
4854.18	4854.18
7614.31	7614.31
9702.36	9702.36

7614.31

4854.18 x2

Rate for 2" thick

15228.62

R. Singh
Sub Engineer

R. Singh
(Sub Divisional Officer),
Highway Sub Division, T.T. Singh

R. Singh
SUB-DIVISIONAL OFFICER
Highway Sub Division
T.T. Singh

R. Singh
SUB-DIVISIONAL OFFICER
Highway Sub Division
T.T. Singh

ANALYSIS OF RATES

DESCRIPTION OF ITEM

1st JULY-2021 to 31st DECEMBER 2021

1. Laying Base Course of crushed stone aggregate of approved quality and grade and supply and laying of stone screening including placing, mixing, spreading and compaction of Base Course material to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work, complete in all respect.

1st JULY-2021 to 31st DECEMBER 2021
Subsequent carriage from Kirana Quarry to
Site of work
Lead 122 Km
57.25x1089x
122-10x30.45+769.25x1.22

P. %Cft

13776.40

7454.50
9151.22
5098.47
42553.67

22927.62

G. Total: -

Sub Engineer

(Sub Divisional Officer),
Highway Sub Division, T.T. Singh

SUB DIVISIONAL OFFICER
Building Sub Division
Toba Tek Singh

EXECUTIVE ENGINEER
Building Division
Toba Tek Singh

LEAD CHART

KARJANA QUARRY

15.42 Km

CHINIOT

21.41 Km

KAMAL PUR

24.63 Km

SADHAR

12.04 Km

PAINSRA

26.00 Km

GOJRA

2.00 Km

TO SITE

Total: 121.50 Km

SAY Total: 122.00 Km

SUB DIVISIONAL OFFICER
ENGINEERING
TOBA TEK SINGH

EXECUTIVE ENGINEER
ENGINEERING
TOBA TEK SINGH

CONSTRUCTION OF BOUNDARY WALL

- 1- Dismantling all type of wire fencing, including rolling wire into bundles and collecting material.

Front.	373+508	=	881	Rft.
Total = 881 Rft.				
2- Dismantling brick work in lime or cement mortar.				
Front.	1	x	508	x
"	1	x	508	x
Front Disposal Side.	1	x	373	x
"	1	x	373	x
"	1	x	373	x
Residence side	1	x	100	x
"	1	x	100	x
"	1	x	100	x
(209.25+220+222+109+432) = 1192.25 Rft				
"	1	x	1192 1/4	x
"	1	x	1192 1/4	x
"	1	x	1192 1/4	x
Total = 11505 Cft				
Total = 863.50 %Rft. 7607				

- 4 Construction of RCC boundary wall 9" thick 8" height above plinth

Re-Construction	373+508+100			
Missing Boundary wall	430+405+656.5+209+220+222+109+432			
Total = 11505 Cft				
Total = 4317.45 %Cft 496715				

- 5 Extra cost for Deeper Foundation of B/Wall

Re-Construction	373+508+100			
Missing Boundary wall	430+405+656.5+209+220+222+109+432			
Total = 3665 Rft				
Total = 981 Rft				
Total = 2684 Rft				

- 5 Construction of Gate & Gate Pillar

Analysis attached				
Detail Attached				
Total = 3665 Rft				
Total = 892.76 P.Rft 3271954				

COST OF OLD MATERIAL

* Old Bricks	Qty as item No.1	11505	x	13.5	x	60%	=	93189	No	559135
					@	6000	%ONOs			465945
* Bricks balls	Qty as item No.1	11505	x	40%					Cft	184080
		373+508x2			@	4000	%Ct			145045
					=	1389	Kg			
* Grill					@	120	P.Kg			166680
		376x2.12			=	797.12	Kg			
* Old Gate					@	100	P.Kg			119568
		(20.5x8.5)+(4.33x8.5)+(15.5x6.167)								20712
		+(3x3.75x6.167 = 376 Sft)								1179442
Total = 33302281										1436000
Total = 14327131/-										

P. Pulgar
SUB ENGINEER

A. G. Guler
SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

Total
13141189/-
' Say/ Rs

32564896
52565900
32565900

T. Tek Singh
SUB DIVISIONAL ENGINEER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

ANALYSIS OF RCC BOUNDARY WALL EXTRA HEIGHT

1 Pacca brick work in foundation and Plinth 1:6 in cement sand mortar

1	x	25	x	1 1/8	x	4	=	42	Cft
Total									42
@ Rs:									28609.55
									%Cft
									1191

2 P/L RCC in roof slab beam column lintel girder and other structure member 1:2:4 complete.

1	x	1	x	2/4	x	4	=	3	Cft
Total									3
@ Rs:									556.50
									P.Cft
									1670


3 Fabrication of Mild steel for reinforcement of cement concrete i/c cutting bending laying in position Deformed Bar.

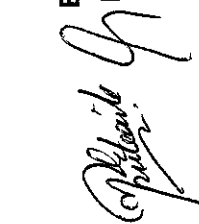
3.0	x	8.0	x	0.454	=	11	Kg
Total							11
@ Rs:							31394.70
							%Kg
							3421

4 Cement pointing deep struck joint 1:2 with red oxide pigment

2	x	9 1/4	x	4	=	74	Sft
Total							74
@ Rs:							4170.85
							%Sft
							3086
Total							8928

$$8928 / 10 = \boxed{893 \text{ P.Rft}}$$


Sub Divisional Officer,
Buildings Sub Division,
Toba Tek Singh.


Executive Engineer,
Buildings Division,
Toba Tek Singh.

Total = 2679 Rft @ 524.95 P.Rft 1406341

- ii Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe in trenches. complete in all respects:- (PN-16) 90mm size i/c cost of specials.

For Bath = 2000 Rft

Total = 2000 Rft @ 349.75 P.Rft 699500

- 4 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 4" i/d, 1/8" (100 mm i/d 3 mm) thick

= 300 Rft @ 1,005.00 P.Rft 301500

- 5 P/F sluice valve of BSS quality and weight class "B" i/c cost of jointing material for C.I pipe 4" dia complete in all respects.

= 4 No @ 18,331.50 Each 73326

- 6 Providing and fitting C.I. flanges on pipes, including turning, threading, flanging and fitting, etc. complete in all respect 3" to 6" dia.

= 36 Kg @ 158.15 P.Kg 5693

- 7 PROVIDING AND FIXING LOW PRESSURE CENTRIFUGAL PUMP (KSB) 2"X2-1/2" SIZE COUPLED WITH 10 HP ELECTRIC MOTOR FOR SWEET WATER COMPLETE IN WORKING ORDER AS APPROVED & DIRECTED BY THE ENGINEER INCHARGE.

= 1 No @ 1,068,800 P.Rft 1068800

- 8 Construction of O.H.R 20,000 Gallons

= 20000 Cft @ 430 P.Gins 8600000

- 9 Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete 12" dia.

= 110 Rft @ 695.60 P.Rft 76516

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

19	x	2,000	x	2	x	1.5	=	114	Cft
19	x	2,000	x	1	x	1.25	=	48	Cft
19	x	2,000	x	1	x	0.75	=	29	Cft
19	x	1,000	x	1	x	0.5	=	10	Cft

Total = 201 Cft

@ 38,178.90

76740

Total = 6260336

14966396

Say Rs = 14966000

SUB ENGINEER

SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH

EXECUTIVE ENGINEER
BUILDINGS DIVISION
TOBA TEK SINGH

ANALYSIS RATE FOR PROVIDING AND FIXING LOW PRESSURE CENTRIFUGAL PUMP (KSB) 2"X2-1/2" SIZE COUPLED WITH 10 HP ELECTRIC MOTOR FOR SWEET WATER COMPLETE IN WORKING ORDER AS APPROVED & DIRECTED BY THE ENGINEER INCHARGE.

2nd Bi-Annual 2022

1. Cost OF PROVIDING AND FIXING LOW PRESSURE CENTRIFUGAL PUMP (KSB) 2"X2-1/2" SIZE COUPLED WITH 10 HP ELECTRIC MOTOR FOR SWEET WATER COMPLETE IN WORKING ORDER AS APPROVED & DIRECTED BY THE ENGINEER INCHARGE.

(Quotation attached)

= 1 No @ 950000.00 Job 950000 /-

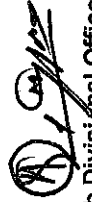
Total 950000 /-

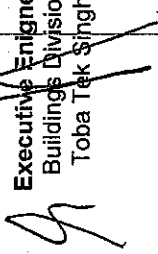
2. Add 12.5% Contractor profite & O.H charge

118750 /-

Total 1068750 /-

Say Rs: 1068800 /-


Sub Divisional Officer,
Buildings Sub Division,
Toba Tek Singh


Executive Engineer,
Buildings Division,
Toba Tek Singh.

The Executive Engineer
Buildings Division Department
Toba Tek Singh

Customer Reference	Telecon	Dated	10-08-22	OUR REF:	LEA-15858-C
No. of Pumps	1	Pump Type	Etanorm 50-160	DATE:	10-08-22
Operating Conditions Medium (H2O, OIL) Clean Water Capacity 0.50 cusec Pump total head 100 Ft Speed 2800 rpm Pump Input 15 HP Recommended drive rating 10.20 HP Suction Flange I.D (inch) 2.5 Discharge Flange I.D (inch) 2 Prime Mover (SEM/IDE) Electrical Motor					
Temperature 20°C Specific Gravity 1 Permissible Suction lift 10 Ft Suction Lift Suction Head Direction of rotation Clockwise (seen from drive end) Flange Standard BS 10 Table D					
Material Specifications Pump casing Cast Iron Shaft SS Impeller Cast Iron Stuffing box Cast Iron Ball Bearing Deep Groove Type Stuffing box gland Cast Iron					
Scope of Supply 1 No. Centrifugal Pump Etanorm 50-160 2800 RPM Duly coupled with a 15 hp/2P, 3 Phase 400 Volts ± 5% Siemens/ABB Horizontal Electric Motor & mounted on a common steel frame. (1) MCU type ASD - 15 KSB Standard (2) Mechanical & Electrical Installation With in Pump House Without Civil Works & Material					
Commercial Conditions Price Basis: Ex Site Unit Pump Set Price Inc. 17% GST Rs. 950,000/-					
Terms of Payment 100 % advance, 8-10 weeks after the receipt of advance payment and firm order. Delivery 30 Days Validity					
Note: If any tax other than mentioned will impose by the govt. same will be charged in addition to the price quoted at the time of delivery. Disclaimer: Working out the prices of above mentioned engineered products 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 reserves the right to change prices as a result of market forces / manufacturing variable Procuring agency is requested to comply with all PPRA Rules as it is its responsibility					
Subject to general conditions for sale and supply of goods No. 35-I-1,4 for KSB PUMPS COMPANY LTD Sales Department					

(Signature)

(Signature)

ENGINEER
Buildings Division
Toba Tek Singh

KSB PUMPS COMPANY LIMITED
Registered Office: 16/2 Sir Aga Khan Road, Lahore, Pakistan • UAN: +92-42-111-572-786 • Tel: +92-42-36304173-4
Fax: +92-42-36366192, 36366878, 36375180 • Email: info@ksb.com.pk • www.ksb.com.pk
WORKS: Hazara Road, Hassanabad, Pakistan • Tel: +92-57-2520236 • Fax: +92-57-2520237 • E-mail: admin.hasanabad@ksb.com.pk

- Subbar*
SUB ENGINEER

**SUB DIVISIONAL OFFICER
BUILDINGS SUB DIVISION
TOBA TEK SINGH**

TOTAL

CONSTRUCTION OF GATE & GATE PILLER.

Sr.	Description	No	Length	Breadth	Depth	Contents	Amount
1	Excavation in foundation for building i/c dag belling, dressing, refilling around structure watering and ramming lead upto one chain and lift upto 5-ft in ordinary soil.	7	3.5	x 3-1/2	x 2	= 172 Cft Total = 172 Cft @ 10677.75 %oCft	Rs.1837/-
2	Dry rammed brick or stone ballast, 1½" to 2" gauge.	7	3.5	x 3-1/2	x 1/2	= 43 Cft Total = 43 Cft @ 8891.50 %Cft	Rs.3823/-
3	R.C.C in slab of raft / strip foundation basis slab 1:2:4	7	3	x 3	x 1	= 63 Cft 7 x 2 = 14 Cft 7 x 1-1/2 = 42 Cft 7 x 1-1/4 = 120 Cft Total = 225 Cft @ 457.75 P.Cft	Rs.102994/-
4	Fabrication of mild steel reinforcement for cement concrete i/c cutting binding etc laying in position (D. bars) Take qty item No.3	225	x 6.75	x 0.454	= 690 Kg Total = 690 Kg @ 31394.70 %Kg	Rs.216623/-	
5	Pacca brick work OTB (1:4)	7 x 2 x (2 + 1-1/4) x 0.4	x 11	= 188 Cft Total = 188 Cft @ 31,365.10 %Cft	Rs.58868/-		
6	Providing and laying superb quality Porcelain glazed tiles skirting/ dado of MASTER brand of specified size in approved design, 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 respect as approved and directed by the Engineer Incharge (a) Full body Glazed tiles 600 mm x 600 mm.	7	2	x (2 + 2) x 11	= 616 Sft Total = 616 Sft @ 340.55 P.Sft	Rs.209779/-	
7	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" and ¾" (20 mm) square bars 4" (100 mm) centre to centre	1 x 20 1 x 4-1/4 1 x 15-1/2 3 x 3-3/4	x 8-1/2 x 8-1/2 x 8-1/2 x 8-1/2	= 170 Sft = 36 Sft = 132 Sft = 96 Sft Total = 434 Sft @ 1,928.45 P.Sft	Rs.836947/-		

8 Preparing surface & painting to doors & windows three coats any type.

1 x 2 x 96

Total = 192 Sft
@ 2714.8 P.Sft

Rs.5212/-

Total

Rs.1436084/-

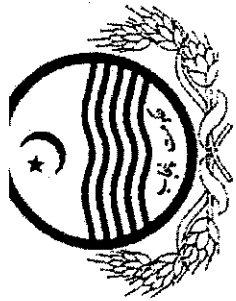
Say Rs.1436000/-

~~Executive Engineer,
Buildings Division,
Toba Tek Singh.~~

[Signature]

[Signature]
Sub Divisional Officer,
Buildings Sub Division,
Toba Tek Singh.

[Signature]
Sub Divisional Officer,
Buildings Sub Division,
Toba Tek Singh.



GOVERNMENT OF THE PUNJAB
DISTRICT WATER TESTING LABORATORY
PUBLIC HEALTH ENGG: DEPARTMENT
TOBA TEK SINGH

CHEMICAL & MICROBIOLOGICAL ANALYSIS REPORT OF WATER SAMPLE

1. Source: Tube well
2. Depth: 250 ft
3. Name: Govt. Eye Cum General Hospital
4. Location/Place: Gojra
5. District & Tehsil: T. T. Singh
6. Sampled By: Medical Superintendent

7. Laboratory No: 9432
8. Date of Sampling: 10.08.2022
9. Date of Receipt in lab: 10.08.2022
10. Date of Analysis: 10.08.2022
11. Date of Reporting: 17.08.2022

Sr.#	Parameters	WHO Acceptable Limits	W.H.O Max: Permissible Levels	Results
1	Temperature	-	-	29.1
2	pH	7.0-8.5	6.5-8.5	-
3	Odor	Unobjectionable	Unobjectionable	Odorless
4	Color	5 TCU	15 TCU	Colorless
5	Taste	Unobjectionable	Unobjectionable	Tasteless
6	Turbidity	5 NTU	5 NTU	-
7	Total Dissolved Solids	500 ppm	1000 ppm	1372
8	Calcium	75 mg/l	75 mg/l	-
9	Magnesium	50 mg/l	150 mg/l	-
10	Total Hardness gm/L as CaCO ₃	100 mg/l	500 mg/l	-
11	Total Alkalinity mg/L as CaCO ₃	-	-	-
12	Sulphate	200 mg/l	250 mg/l	-
13	Chloride	200 mg/l	250 mg/l	-
14	Iron Total	0.3 mg/l	0.3 mg/l	-
15	Conductivity $\mu\text{m/cm}$ or $\mu\text{s/cm}$	-	-	-
16	Arsenic	-	50 ppb	-
17	Fluoride	-	1.5 mg/l	-
18	Nitrite	-	3 mg/l	-
19	Nitrate	-	50 mg/l	-
20	Bacteriological analysis result	Absent	Absent	-

Remarks:

- Water Sample is **UNFIT** for human consumption.
- Authenticity of sample will lie on collecting person.

ENGINEER
Public Health Division
Toba Tek Singh

(Signature)

Junior Research Officer
District Water Testing Laboratory
Public Health Engrg. Deptt
Toba Tek Singh

(Signature)

From

The Sub-Divisional Officer,
Public Health Engg. Sub-Division
Gofra

To

Medical Superintendent
Govt. Eye Cum General Hospital
Gofra

No

166

Date

19

X

2022

Subject

WATER QUALITY TESTING REPORT FOR GOVT. EYE CL
GENERAL HOSPITAL GOFRA

Ref.

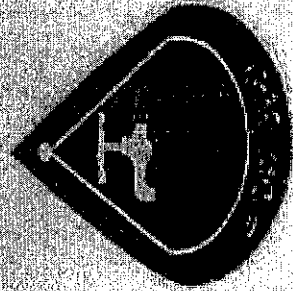
Your with office letter # 239-RECCH/ Gofra dated 18.08.2022

It is submitted that the water sample is not fit for human consumption as per standards of world health organization WHO. The Total dissolved solid (TDS) of said sample is 1372mg/l which is higher value than WHO recommendation 1000mg/l. The water should be treated for human consumption by using reverse osmosis filtration technique / Water Supply Scheme.

So, the hospital should arrange a water supply scheme / Filtration Plan (Reverse Osmosis) for the provision of safe drinking water.



Sub-Divisional Officer
Public Health Engg. Sub-Division
Gofra



Office of The
Junior Research Officer
District Water Testing Laboratory
Public Health Engineering Department
Toba Tek Singh
Contact No.046-2514254 Email: aqualabjng@gmail.com

No. 968. WTLTTS

Date 18/08/2022

To

Medical Superintendent
Govt. Eye Cum General Hospital
Gojra

Subject: -

WATER QUALITY TESTING REPORT FOR GOVT. EYE CUM
GENERAL HOSPITAL GOJRA.

Ref : with your letter no 2364/ECGH/Gojra Dated: 18/08/22

It is submitted that the water sample is not fit for human consumption as per standards of world health organization WHO. The Total dissolved solid (TDS) of said sample is 1372mg/l which is higher value than WHO recommendation 1000 mg/l. The water should be treated for human consumption by using reverse osmosis Filtration technique / Water Supply Scheme.

So, the hospital should arrange a water supply scheme / Filtration Plant (Reverses Osmosis) for the provision of safe drinking water.

Toba Tek Singh
Junior Research Officer
District Water Testing Laboratory
Toba Tek Singh

ANALYSIS OF RATE FOR SUPPLY, INSTALLATION AND TESTING OF WATER TECH REVERSE OSMOSIS PLANT WATER TECH WITH ARSANIC REMOVAL SYSTEM CAPACITY 1000-LITER PER HOUR SUPPLY BY ISO CERTIFIED COMPANY (WATER TECH)

(Based on 2nd Bi-annual 2022)			
	1 Job	1350000	P.Job 1350000 /-
1. SUPPLY, INSTALLATION AND TESTING OF WATER TECH REVERSE OSMOSIS PLANT WATER TECH WITH ARSANIC REMOVAL SYSTEM CAPACITY 1000-LITER PER HOUR SUPPLY BY ISO CERTIFIED COMPANY (WATER TECH) (Quotation Attached)			


Total = 1350000 /-

175500 /-

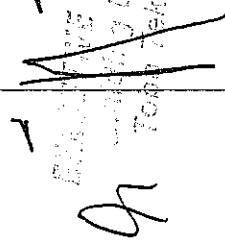
Total = 1525500 /-

Say 1525500 /-

Add 13% Contractor profit+ O.H. Charges


Sub Divisional Officer
 Buildings Sub Division
 Toba Tek Singh




Sub Divisional Officer
 Buildings Sub Division
 Toba Tek Singh



Water ~Tech Manufacture & Importer
Head Office :Zenat Park Near Waves
Factory Multan Road Lahore Ph: 0426663635 Web: www.watertechiso.com
PH: 03216122023 Email:haroon_r@hotmail.com

QUOTATION

TO,
Executive Engineer,
Building Department
Toba Tek Sing

Ref: PHD/10797/22
Dated : 20-08-2022

SUB : SUPPLY, INSTALATION AND TESTING OF REVERSE OSMOSIS PLANT WATER TECH WITH ARSANIC REMOVAL SYSTEM CAPACITY 1000 LITER PER HOUR SUPPLY BY ISO CERTIFIED COM. (Water Tech) AS PER SATISFACTION OF ENGINEER INCHARGE.

Dear Sir,

Reference to your discussion , regarding the above mentioned subject, we are pleased to quote the same for your kind consideration and approval .

THE PLAN : WILL COMPRISE WITH THE FOLLOWING EQUIPMENTS:

TECHNICAL SPECIFICATION

<u>Water Analysis Report for each riant /Site</u>	<u>Minimum Standards</u>
1.Aesthetic Contamination, 2.Biological Contamination, 3.Chemical Contamination, and 4.High Total Dissolved Solids. For the design of filtration plants, the contractor shall identify viable source of feed water, conduct complete water quality testing of samples, noting guideline values in WHO guidelines from drinking water quality, 4th edition to date revision and the Pakistan Standard for drinking water	PHED LAB
<u>Design Criteria</u>	<u>Minimum Standards</u>
	I. USA/EU and

<p>Reverse Osmosis (RO) plants shall be powered by Grid as prime energy source. RO design will be based on feed water with total dissolved solids (TDS) for brackish Water with a maximum of 5000 ppm. The rejected brine from the plant and drainage water shall be disposed into drainage system. Remineralization of RO product water may be carried out by blending an appropriate Fraction of pretreated raw water. The RO plant shall be designed with minimum of 50% recovery of permeate up to maximum 5000 ppm TDS in Raw Water. The vendor must submit the projection/simulation based on complete feed water analysis before installation of Plant. The following membrane manufacture software projections are acceptable.</p> <p>Reduced energy consumption Reduce Chemical Consumption Increased life span of membranes and filter parts NSF Certified equipments should be used</p>	<p>ISO Certified Company</p> <p>Manufacture /Company Plant</p> <p>Water Tech International</p> <p>With all Products Certification & Product Bar Code Verification.</p>
<p>Feed Pump</p>	<p>Minimum Standards/Manufacturers</p>
<p>Flow: 2000 Liters / Hour (2m³/hr) Pressure:4 Bar</p>	<p>Water Tech International</p>
<p>High Pressure Pump</p>	<p>Minimum</p>

<u>Standards/Manufacturers</u>	
Floor: 2000 Liters / Hour (4m3/hr) Pump and motor shall be of treputed efficiency above 80%	Grundfos ,Germany/Water Tech /KSB
<u>Reverse Osmosis Membranes</u>	<u>Minimum Standards/Manufacturers</u>
Membrane Type: Polyamide Thin Film Composite Membrane element Size: 4" x 40" / 8"x40" Maximum Applied Pressure: 400psi Nominal Salt rejection: 98.5% pH range, short term cleaning: 1-3 pH range, continuous operation	Dow Film Tech (USA)/Water Tech
<u>Membrane Pressure Vessel</u>	<u>Minimum Standards/Manufacturers</u>
Heavy duty reverse osmosis pressure vessel housings shall be made of fiberglass, tested and certified by the American Society of Mechanical Engineers (ASME) and the boiler association of the USA as per ASME's Boiler and Pressure Vessel Code (BPVC):2013. Enamel coated white. Easy membrane removal, inspection, and installation should be allowed.	Material: FRP Make: Code Line Pentair USA, Water Tech USA Origin Pressure: 550 PSI Size: 4"x40", 4"x80", 8"x40", 8"x80"
<u>Frame/Skid</u>	<u>Minimum Standards</u>
Stainless Steel shall be used for Reverse Osmosis Skid meeting minimum following specification can also be used:	Stainless Steel Grade: SS-304
<u>Flow Meters</u>	<u>Minimum Standards</u>
A variable area rotameter shall be installed to measure the flow of feed/permeate water. Flow meter shall be of transparent acrylic material with Stainless Steel float with graduations on them to show proper flow. Flow meter shall be capable of covering the full range of flow.	Maximum Flow: 35GPM Make: Code Line Pentair USA, Water Tech USA Origin
<u>Water Meters if need</u>	<u>Minimum Standards</u>
Water meter shall be of multi jet submersible with a pulse generator with a maximum frequency of 1pulse/ 10 Liters.	A pulse generator with a maximum frequency of 1 pulse/10

Body of water meter shall be of Cast iron with threaded connections and a minimum pressure rating of PN10. Water meter shall have a totalizer installed on permeate line.	
<u>Pressure Gauges</u>	<u>Minimum Standards</u>
All installed pressure gauges shall be bourdon spring type with Stainless Steel (SS), 304 casing and a minimum diameter of 2.5". All gauges shall be damping fluid filled having back connection and board , for easy fitting on the panel.	Make: Code Line Pentair USA, Water Tech USA Origin Minimum diameter: 2.5" Warranty 1 year
<u>Dosing Pump</u>	<u>Minimum Standards</u>
For addition of chemicals like Antiscalant, Acid	Made: Pentair/Etatnor Italy/Water Tech Flow: As needed 80 liter Tank for Dosing
<u>Carbon On Pre-Filter</u>	<u>Minimum Standards</u>
Filtration Rate: 10m/hr.	Vessel Material: FRP
Backwash: 30m/hr.	Make: Pentair USA/Water Tech
Backwash Time: Backwash through PLC	Pressure: 150 PSI
Sand Effective Size: 0.8-10mm	Size: 16"x65"
Bed Depth: 0.6 - 1m	
Filtration Rate: 8m/hr.	Vessel Material: FRP
Backwash: 25m/hr.	
Activated Carbon Effective Size: 1.2-1.6mm	Activated Carbon: Norit/Water Tec
Empty Bed contact time: 5 minutes	Replacement: On depletion of the adsorption cap.
Base Material: Coal, L shell, Activated, bituminous coal, lignite	
Sand Filter an Fine	Imported
Arsenic Filter and media	Imported
<u>Carbon Pre-Filter</u>	<u>Minimum Standards</u>
Pre-Filter before High Pressure Pump	Filter: 3 microns
<u>Post Treatment</u>	<u>Minimum Standards</u>
If needed	pH Adjustment removal of arsenic & fluoride if found in

<u>RO System Controlled By PLC/Panel</u> (Refer to Appendix)	
<p>RO system should be controlled by Auto Display on Front Panel System should be SCADA enabled.</p> <p>The controller shall display the permeate TDS/Conductivity, and operating hours along with the operating controller.</p> <p>All Leakers, relays, timers etc.</p>	<p>Minimum Standards</p> <p>PLC : Siemens(EU), Mitsubishi(Japan), Schneider(EU) Water Tech</p> <p>HMI: Siemens(EU), Mitsubishi(Japan), Schneider(EU), Wintek</p> <p>Siemens(EU), Mitsubishi(Japan), Schneider(EU), Water Tech</p>
<u>Storage Tanks for Product & Feed Water</u>	<u>Minimum Standards</u>
<p>Product water tank should be food grade.</p> <p><u>Notes: All components must be brand new and from reputed feed companies</u></p> <p>1- Membrane make USA (Pentair USA/ Water Tech International)</p> <p>2- Multimedia Filter, (Sand ,Carbon Arsenic Removal and Softener Vessels Filter) make USA (Pentair USA)</p> <p>3- RO Plant controlled by Auto with display & TDS meter fully Automatic control Plant.</p>	<p>Metrail: High Density Polyethelene, Anti UV</p> <p>Metrail Class: Food Grade</p> <p>Working Temperature:-20 to 60°C</p> <p>Wall thickness:Approx.4 to 5.0mm</p> <p>Storage Capacity: 2000 Liters Each for Raw water and Product water</p> <p>DESIGN CRITERIA :</p> <p><u>USA/EU,</u></p> <p>Manufacture /Company Plant :</p> <p>Water Tech International</p> <p>With all Products Certification & Product Bar Code Verification.</p>

COST OF RO PLANT

No.	ITEMS	Qty	Rate
1	SUB: SUPPLY, INSTALLATION AND TESTING OF WATER TROCH REVERSE OSMOSIS PLANT/ WATER TECH WITH AESTHETIC REMOVAL SYSTEM CAPACITY 1000-LITER PER HOUR SUPPLY BY ISO CERTIFIED COMPANY (WATER TECH)	1 job	1,350,000.00
	TOTAL COST:		<u>125,000.00</u>

Terms & Conditions:

1. Payment : 50% Advance, 40% on delivery and after Completion 10% or according to terms of Organization for.
2. Delivery : 2-3 Week
3. Validity : 45 days
4. Warranty : 1 Year without electric parts

Buyer's Responsibility:

1. Provide Water & Electricity in to Plant Room
2. Provide Local plumber for PPRC/Cutting and Tank Fitting
3. Site clearance and GST if applicable.
4. Provide and water storage tank.
5. Provide Accommodation for workers.

Water Rights

EXECUTIVE ENGINEER
Building Division
Toba Tek Singh

(Signature)

(Signature)

M. Haroon Raza

Director, Water ~ Tech ISO 9001-2008 Email: WaterTechiso9001@gmail.com

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:LO22010096
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:LO22010096
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. Gynaecology and obstetric will also be emphasized upon. In emergency, calamities and natural disasters, valuable lives will be saved through revamping of Emergency Units.

10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION

10.2 FINANCIAL PLAN DEBT INFORMATION

undefined

10.3 FINANCIAL PLAN GRANT INFORMATION

attached

FINANCIAL PLAN AND MODE OF FINANCING

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

Revenue Side:

(Rs.in Million)

	FY 2021-22	FY 2022-23
Funds Released	2.695	7.486
Utilization	2.212	0.667

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

ENVIRONMENTAL IMPACT

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

11.3 PACT ANALYSIS

undefined

11.4 ECONOMIC ANALYSIS

IMPACT OF DELAYS ON PROJECT COST AND VIABILITY

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

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

11.5 FINANCIAL ANALYSIS

FINANCIAL BENEFITS & ANALYSIS

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

The Targets of Sustainable Development Goals (SDGs) will be achieved

The Human Development Index of Pakistan (HDI) will improve

Infant Mortality Rate will decrease

Mother Mortality rate will be decreased

The international commitments of Pakistan will be accomplished

Health standard of public will

Better Health Facilities to mother and

Prompt and scientific facility for operation

Rehabilitation of disables and injured

Blindness in this area will be decreased and controlled

Better social and mental health to addict

Provision of better health facilities at doorsteps

Awareness and control for communicable

Survival of heart failure

Social indicators of Pakistan will improve

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

11.1.1 FINANCIAL IMPACT:

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

11.2 REVENUE GENERATION

Revenue will be generated from:

Laboratory fees

Diagnostic facility fees

X-Ray fee

Dental fee

ECG fee

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

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

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

12.2 RESULT BASED MONITORING (RBM) INDICATORS

undefined

12.3 IMPLEMENTATION PLAN

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:

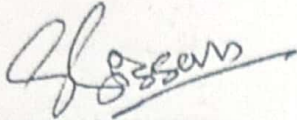
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Fax No:

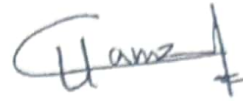
Address:31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

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

Prepared By:

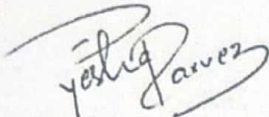


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(Oct-2022)



(HAMZA NASEEM)
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Checked By:



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(KHIZAR HAYAT)
PROJECT DIRECTOR (PMU),
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(Oct-2022)

Approved By:



(DR. IRSHAD AHMAD)
SECRETARY,
GOVERNMENT OF THE PUNJAB
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT, LAHORE
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