PC-1

Balance Work of DHQ Hospital Attock

ORIGINAL APPROVED COST	**PKR Million. 184.212/-**
ORIGINAL APPROVED GESTATION	**43 Months** **Till June 2025**
APPROVAL FORUM	**DDSC (DDSC)**

1. NAME OF THE PROJECT

Balance Work of DHQ Hospital Attock

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. ATTOCK

3. AUTHORITIES RESPONSIBLE FOR

3.1. SPONSORING AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.2. EXECUTION AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.3. OPERATIONS AND MAINTENANCE AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.4. CONCERNED FEDRAL MINISTRY

- NATIONAL HEALTH SERVICES, REGULATIONS AND COORDINATION

3	**AUTHORITIES RESPONSIBLE**	
	3.1 Sponsoring	Government of the Punjab, Primary and Secondary Healthcare Department
	3.2 Execution	PMU for Revamping Program of Primary and Secondary Healthcare Department, District Health Councils and C&W Department.
	3.3 Operation & Maintenance	PMU for Revamping Program of Primary and Secondary Healthcare Department and District Health Authority
	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:**5339
4	**Total Allocation:**0.000
5	**Funds Diverted:**0.000
6	**Balance Funds:**0.000
7	**Comments:** The scheme will be financed out of block scheme included in ADP 2022-23 at G.S. No. 660 with an allocation of Rs.1300 million

5. PROJECT OBJECTIVES

Attached

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

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

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

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

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

5.1. Brief Description / Background

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

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

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

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

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

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

C) External Electrification

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

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

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

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

Civil work revamping of all DHQ & 15 THQ Hospitals was undertaken during the FY 2016-17 through Infrastructure Development Authority Punjab (IDAP). Details of revamping in DHQ is given below:

Total area of the DHQ Hospital Attock:	79,758 SFT
Area completed:	53,261 SFT
Area Not taken up:	26,497 SFT
External Development and Electrification:	Not Executed

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

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

Now it has been decided to complete the balance civil work of revamping through C&W Department. Accordingly, the Rough Cost estimates of balance civil work

has been got prepared from the Punjab Buildings Department for preparation of instant PC-I.

5.2 Infrastructural Interventions

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

Major infrastructural interventions can be divided in the following three categories

5.4.1 External Development

5.4.2 Internal Development

5.4.3 Medical Infrastructure Development

5.4.4 Emergencies Development

5.3 External Development

5.3.1.1 External Platforms

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

5.3.1.2 Façade Improvement

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

5.3.1.3 Sewerage System

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

5.3.1.4 External Electrification

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

5.3.2.1 Ramp and Stretcher improvement

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

5.3.2.2 Seamless flooring and Lead Lining

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

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

5.3.2.3 Aluminum doors and windows

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

5.3.2.4 Improvement of washroom blocks

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

5.3.2.5 Fire and theft security

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

5.3.3 Medical Infrastructure Development

Includes establishment of new facilities which are as follows:

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

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

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

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

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

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

5.3.3.1 ICU

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

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

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

5.3.3.2 CCU

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

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

5.3.3.3 DIALYSIS UNIT

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

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

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

5.3.3.4 BURN UNIT

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

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

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

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

5.4.1 EMERGENCY DAPARTMENT:

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

5.4.2 General Overview of Emergency Department

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

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

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

5.4.3 Position of Emergency Department

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

5.4.4 Addition of Portico and External Structures

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

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

5.4.5 General Building Interventions:

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

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

5.5 Introduction of IT-based solutions

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

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

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

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

- MLC portal

5.6 MONITORING AND QUALITY ASSURANCE (PROCESS INTERVENTIONS)

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

5.6.1 MSDS (Minimum Service Delivery Standards)

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

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

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

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

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

MSDS implementation is a complex procedure. Because it requires

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

The PDSA cycle

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

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

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

5.6.2 Supply of missing Biomedical and non-biomedical equipment

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

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

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

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

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

5.7. Electronic Medical Record (EMR) and QMS

5.7.1 Queue Management System (QMS)

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

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

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

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

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

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

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

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

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

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

5.7.2 Public Address System

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

5.7.3 CCTV System

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

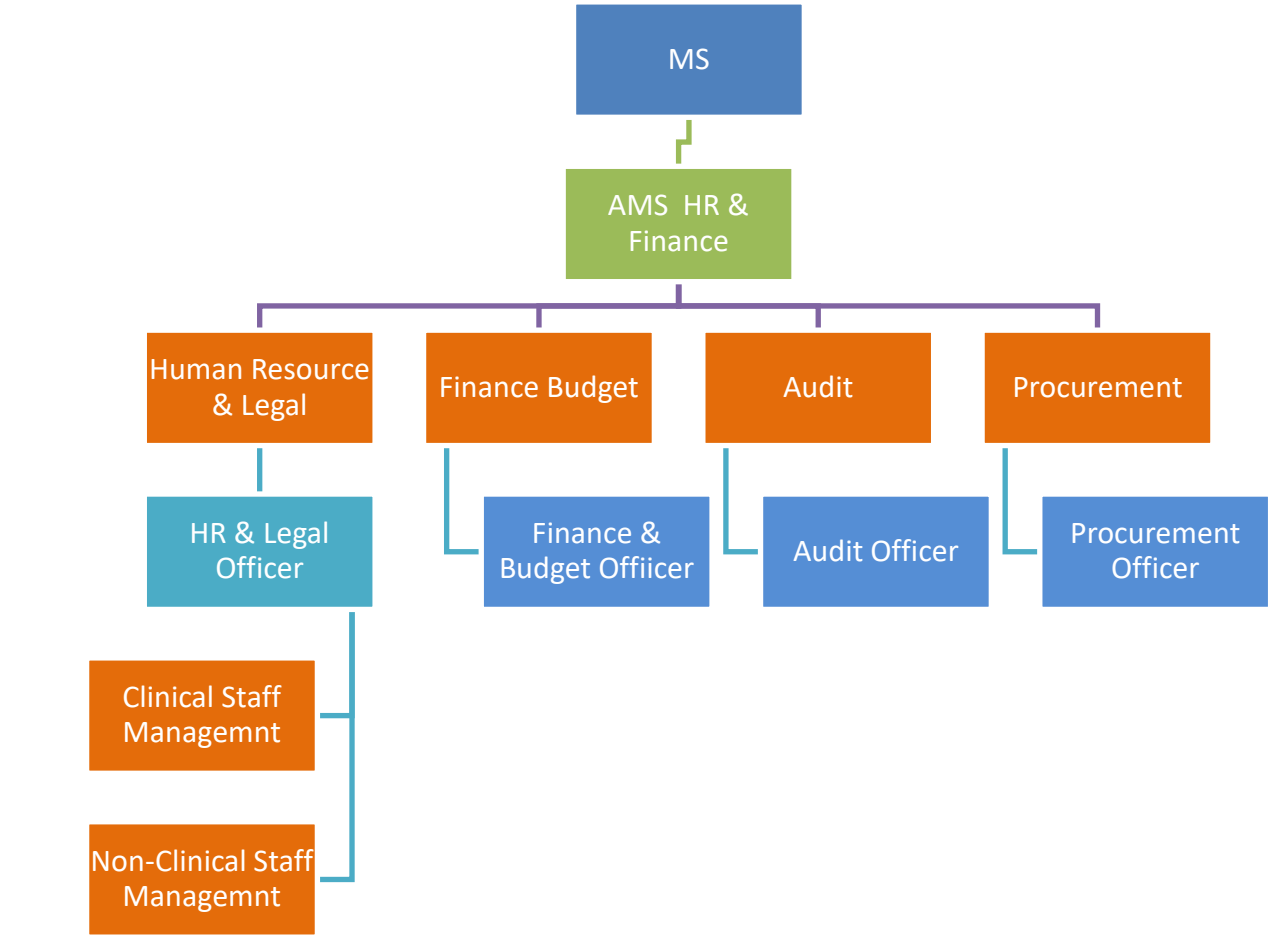
5.7.4 EMR and Networking

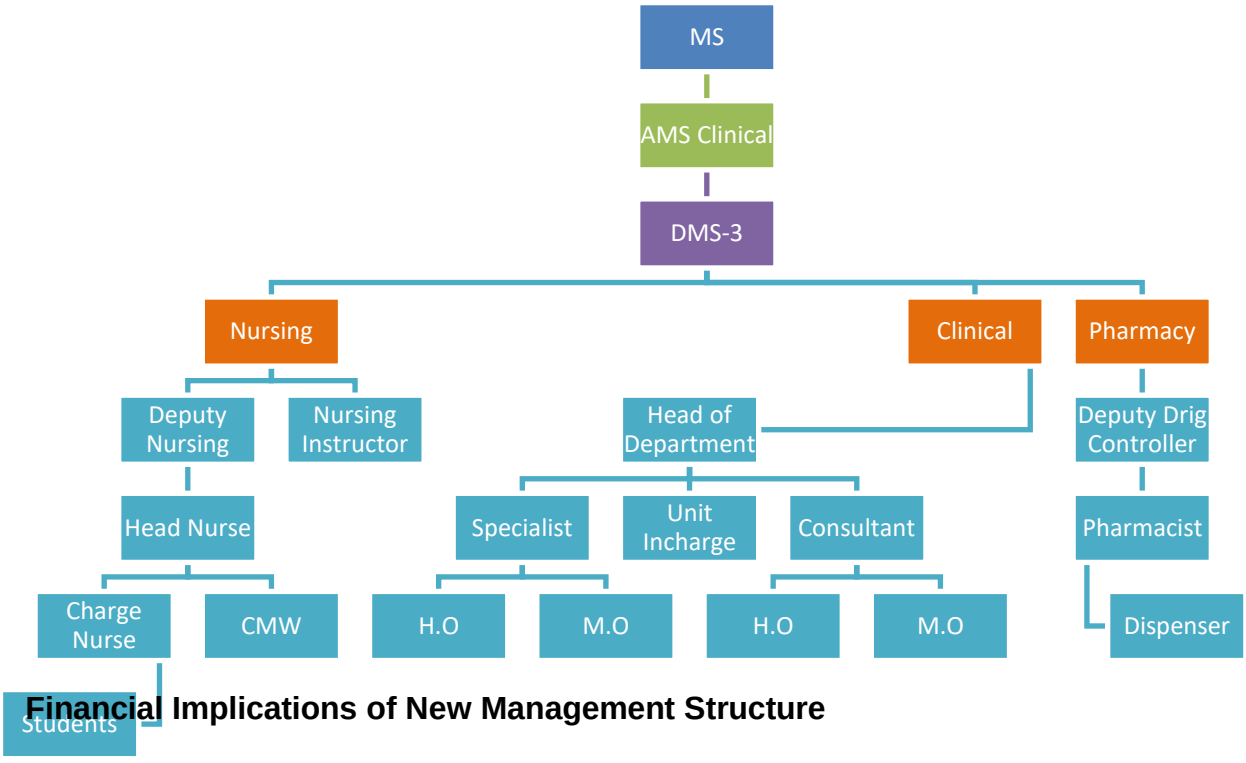
Establishment of network infrastructure, establishing a central data center, connectivity of different building through fiber, are also the major components of the revamping project in terms of ICT. This will including provision of networking point at all nursing stations and important areas where entries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

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

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

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





Financial Implications of New Management Structure

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

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

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

Name of Post	No. of Employees	Original Pay package approved		Revised Pay package	
		Per Month Salary	Salary for One Year	Per Month Salary	Salary for One Year
ADMIN OFFICER	1	80,000	960,000	138,000	1,656,000
HUMAN RESOURCE OFFICER	1	80,000	960,000	138,000	1,656,000
IT/STATISTICAL OFFICER	1	80,000	960,000	138,000	1,656,000
FINANCE & BUDGET OFFICER	1	80,000	960,000	138,000	1,656,000
AUDIT OFFICER	1	80,000	960,000	138,000	1,656,000
PROCUREMENT OFFICER	1	80,000	960,000	138,000	1,656,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	840,000	228,000	2,736,000
BIOMEDICAL ENGINEER	1	80,000	960,000	138,000	1,656,000

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

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

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

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

5.8.2.1 HR / Legal Officer

Shall be responsible for following:

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

Eigibility Criteria

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

5.8.2.2 Finance & Budget Officer

Shall be responsible for following:

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

Eigibility Criteria

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

5.8.2.3 Audit Officer

Shall be responsible for following functions:

1. Smooth conduct and completion of all types of audit in hospital
2. Pre-audit of all Payments
3. Liaison with external audit teams

4. Preparation of replies of audit paras, working paper for Department Accounts committee, Special Departmental accounts committee & Public Accounts committee meetings
5. Development of SOPs for finance, budget, procurement as per Government rules & regulations
6. Any other function assigned by AMS HR& Finance /MS/P&SHD

Eigibility Criteria

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

5.8.2.4 Procurement Officer

Shall be responsible for following functions:

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

Eigibility Criteria

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

5.8.2.5 ADMIN OFFICER AND ASSISTANT ADMIN OFFICER

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

1. Security
2. Transport

3. Parking
4. Janitorial
5. Canteen
6. External housekeeping
7. Electrical works
8. Internal housekeeping
9. Laundry
10. Stores & supplies

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

Eligibility Criteria (Admin Officer)

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

Eligibility Criteria (Assistant Admin Officer)

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

5.8.2.6 IT/STATISTICAL OFFICER

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

He shall be in liaison with PITB/HISDU for proper reflection of hospital record on PITB dashboard. In case there is any discrepancy or error he shall resolve

the issue. Moreover, he shall be responsible for functionality of all IT equipment.

Eligibility Criteria

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

5.8.2.7 QUALITY ASSURANCE OFFICER

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

Eligible Criteria

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

   OR

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

5.8.2.8 BIO-MEDICAL ENGINEER

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

Eligible Criteria

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

5.8.2.9 LOGISTICS OFFICER

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

Eligible Criteria

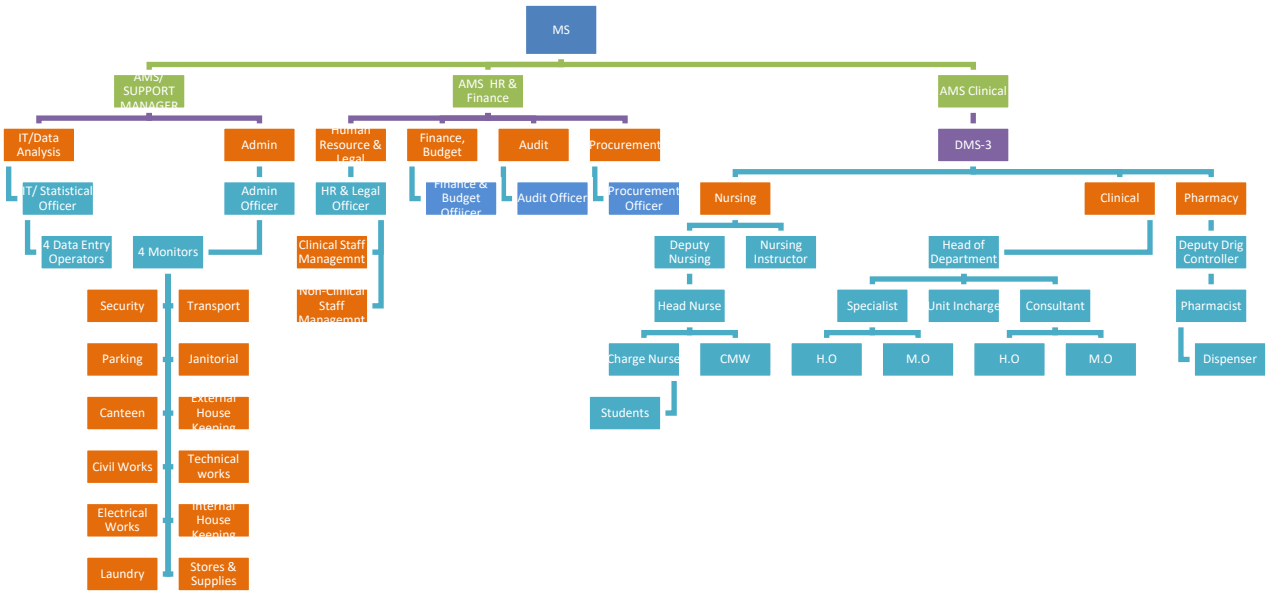
1. M.Sc. Supply Chain Management/ MBA or Equivalent.
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

5.8.2.10 Data Entry Operators (DEO)

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

Eligible Criteria

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



Financial Implications of New Management Model

NAME OF POST	No. of Posts	Monthly Salary (PKR)	Annual Impact (PKPR)
ADMIN OFFICER	1	105,000	1,260,000
HUMAN RESOURCE OFFICER	1	105,000	1,260,000
IT/STATISTICAL OFFICER	1	105,000	1,260,000
FINANCE & BUDGET OFFICER	1	105,000	1,260,000
AUDIT OFFICER	1	105,000	1,260,000

PROCUREMENT OFFICER	1	105,000	1,260,000
DATA ENTRY OPERAOTOR (DEO)	4	105,000	1,260,000
BIOMEDICAL ENGINEER	1	105,000	1,260,000
QUALITY ASSURANCE OFFICER	1	105,000	1,260,000
LOGISTICS OFFICER	1	44,000	2,112,000
ASSISTANT ADMIN OFFICER	4	70,000	3,360,000
GRAND TOTAL	**17**	**1,059,000**	**16,812,000**

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

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

5.9 RELATIONSHIP WITH SECTORAL OBJECTIVES

The Government of the Punjab, Primary & Secondary Healthcare Department is in the process of undertaking number of initiatives to improve health care delivery system in the province. The Government of the Punjab is firmly committed to provide health care services at the doorstep of the community through integrated approach. A number of projects to improve emergency health

care service particularly targeting on the promptness and quality have been initiated. Although major focus is on disease prevention and health promotion strategies by providing specialist health care services to victims of various diseases in the patients is one of the top most priority. The instant project will be a major wing to health department with line departments.

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

5.10 PATIENT MANAGEMENT PROTOCOL

5.10.1 EMERGENCY:

1. Initial reception and computerization of data, issuance of medical record number and preparation of record file.
2. Patients seen by C.M.O. initial assessment (brief history and physical examination) is entered on the emergency slip/file initial treatment is started.
3. C.M.O calls the medical officer / house officer of the relevant department who takes on of the following action:-
    i. Discharges the patient from emergency department after the patient is stabilized (himself or after consultation).
    ii. Returns the patient in emergency department and inform the consultant or call such patient is either discharged after some time i.e. 2 hours of admitted later on
    iii. Patient is straight way admitted by the medical officer himself or in consultation with the consultant
4. A separate record is maintained by each department. Each patient discusses at the morning meeting and any pitfalls are any pitfalls are corrected.
5. The patient who is admitted is again entered into the computer in the ward, complete history and physical examination is carried out and relevant lab & radiological investigations are ordered. (If not already done in the emergency department).

6. The definitive management is either started by the medical officer himself or in consultation with the consultant. (Telephone or physically). The patient is prepared for surgery if required.
7. At the evening round of the ward, the patients admitted throughout the day (Through OPD or emergency) are seen by the specialist. Appropriate changes in the management are carried out.
8. During the night, medical officer & house officer will be on duty and they will remain in contact with consultant.
9. In the morning round all the new admissions and old patients are thoroughly discussed management / treatment changed, surgery ordered or discharge ordered.
10. The discharge certificate is either prepared by the house officer or medical officer. If prepared by the house officer, it is countersigned by the medical officer

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

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

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

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

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

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

5.10.4 INVENTORY CONTROL SYSTEM

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

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

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

5.10.5 PROJECT MONITORING COMMITTEE

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

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

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

6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT

Attached

6. DESCRIPTION, JUSTIFICATION AND TECHNICAL PARAMETERS

The scheme has been estimated on face of the factual basic requirements and if needed, alterations and has been quoted in this PC-I. The Population of District Attock is more than 2.055 million. The area of the DHQ Hospital Attock is 1138525 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. 134.858 million to Rs. 130.894 million due to few changes in the scope and MRS rates (2nd Bi-annual 2022).

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

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

Assistant Admin Officer	PPS-5	50,000-75000 (10% annual incr.)	50,000
Data Entry Operator	PPS-3	35,000-55,000 (10% annual incr.)	35,000

Now the Planning & Development Board vide letter No.12(24)PO(COORD-II)P&D/2022 dated 14-07-2022 has informed that revised standard pay package were discussed and approved by the 83rd PDWP meeting held on 28-06-2022 under the chairmanship of Chairman P&D Board for all ADP funded Project posts of Department /Organizations working in Government of the Punjab. Therefore, the revised Pay Package has been incorporated in the revised PC-I. Due this the revenue component meant only for salaries of NMS staff has been increased.

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

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

given below

PROJECT MANAGEMENT UNIT
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT

LOCATION OF DHQ AND THQ HOSPITALS IN PUNJAB

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

1 DHQ Hospital Attock
2 DHQ Hospital Bahawalnagar
3 DHQ Hospital Bhakhar
4 DHQ Hospital Chakwal
5 DHQ Hospital Chiniot
6 DHQ Hospital Hafizabad

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

6.2 SECTORAL SPECIFIC INFORMATION

Social Sectors Health Department

7. CAPITAL COST ESTIMATES

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

Grant Number: Development - (PC22036)
LO NO:LO21010523
A/C To be Credited: Assan Assignment

PKR Million

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

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

Grant Number: Government Buildings - (PC12042)
LO NO:LO22010084
A/C To be Credited: Account-I

PKR Million

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

Abstract of Cost

Name of DHQ Hospital	Attock				
Scope of work	Orignal			1st Revised	
	Capital	Revenue	Total	Capital	Revenue
Capital component					
Internal Development	71.121	0.000	71.121	62.515	0.000
External Development	48.103	0.000	48.103	63.680	0.000
Water filtration plant	5.170	0.000	5.170	4.699	0.000
Total Capital Component	**124.394**	**0.000**	**124.394**	**130.894**	**0.000**
Revenue component					
Human resource (HR) plan	0.000	25.440	25.440	0.000	53.318
Total Revenue component	**0.000**	**25.440**	**25.440**	**0.000**	**53.318**
Total	**124.394**	**25.440**	**149.834**	**130.894**	**53.318**
PST (5%)	6.220	0.000	6.220	0.000	0.000
Punjab Green Tax (1%)	1.244	0.000	1.244	0.000	0.000
Additional cost for Wapda	2.000	0.000	2.000	0.000	0.000
Additional cost for SNGPL	1.000	0.000	1.000	0.000	0.000
Grand Total	**134.858**	**25.440**	**160.298**	**130.894**	**53.318**

Total

62.515
63.680
4.699
130.894
53.318
53.318
184.212
0.000
0.000
0.000
0.000
184.212

Human Resource Model of THQ Hospital

	Original				1st Revised				
NAME OF POST	**No. of Emplyees**	**Per Month Salary**	**Per Month Salary for all Person**	**Salary for Two Years**	**No. of Emplyees**	**Project Pay Scale**	**Per Month Salary**	**Per Month Salary for all Person**	**Salary for Two Years**
ADMIN OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
HUMAN RESOURCE/LEGAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
IT/STATISTICAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
FINANCE & BUDGET OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
AUDIT OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
PROCUREMENT OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	140,000	3,360,000	4	3	44,000	176,000	5,456,000
QUALITY ASSURANCE OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
BIO MEDICAL ENGINEER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
LOGISTICS OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
ASSISTANT ADMIN OFFICER	4	50,000	200,000	4,800,000	4	5	70,000	280,000	8,680,000
Sub Total of HR Model	**17**		**1,060,000**	**25,440,000**	**17**	**62**	**1,059,000**	**1,401,000**	**43,431,000**
				25.440					**43.431**
Utilization of HR Component				**9.887**					
									53.318

GOVERNMENT OF THE PUNJAB

NAME OF WORK AMENDED **ROUGH COST ESTIMATE "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK ADP NO. 660 FOR THE YEAR 2022-23".**

ESTIMATED COST: **Rs.** ~~176.599~~ ~~192.003~~ **(M)** ~~168.599 M~~ 130.894 (M)

EXECUTIVE ENGINEER
BUILDING DIVISION, ATTOCK

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AMENDED (2)

ROUGH COST ESTIMATE "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK ADP NO. 660 FOR THE YEAR 2022-23".

HISTORY: -

The Government of the Punjab taking keen interest to provide batter facilities in Health Sector. In this regard a scheme reflected in current ADP at General Serial No. 660 for the year 2022-23. Accordingly, site has been visited and scope of work provided by the client department a rough cost estimate has been prepared amounting to **Rs. ~~192.003~~ (M)** on the basis of plinth area rates notified vide Chief Engineer Punjab Building Department Lahore (NZ) No. CEBNZ/1188/D-92, Dated 07.07.2022 for 2nd Bi Annual Period 1st July 2022 to 31st December 2022 and is being submitted for onward submission to quarter concerned for administrative approval / funds please.

~~176.445~~ 130.894(M)

SCOPE OF WORK: -

1.	Revamping of Main Building DHQ	=	1 Job
2.	Provision of Water Filtration Plant with Supply System	=	1 Job
3.	Fire Alarm System	=	1 Job
4.	Provision of ATS system and Panel Board	=	1 Job
5.	Electric Panel Room (25x25)	=	625 Sft
6.	Provision of Sewerage System	=	1 Job

SPECIFICATION: -

The work will be got executed according to the Buildings Department specifications and to the entire satisfaction of the Engineer Incharge.

CARRYING OUT OF THE WORK: -

The work will be carried out through some approved Agency of Buildings Department after calling competitive tenders and allotted to the lowest one as per rule.

RATES: -

This Rough Cost Estimate has been framed on the basis of Plinth Area Rates Notified Vide Chief Engineer Punjab Building Department Lahore North Zone No. CEBNZ/1188/D-92, Dated 07.07.2022 for 2nd Bi Annual Period 1st July 2022 to 31st December 2022.

COST: - ~~176.445~~ ~~168.599~~ 130.894 (M)

Rs. ~~192.003 (M)~~

TIME LIMIT: - 24 months are required as per allocation of ADP.

Sub Divisional Officer
Buildings Sub Division
Attock

Executive Engineer
Buildings Division
Attock

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CHECK LIST FOR IDENTIFICATION OF SCOPE FOR REVAMPING OF HEALTH FACILITY DHQ Attock 20-07-22

Note: As this scheme is Balance work of DHQ Attock therefore, only those areas will be revamped which were left by IDAP.

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
1	Porcelain Floor Tile replacement	Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.	Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.	Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.	Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.	Tiles specifications , brand, size and Installation will be as per specified C&W standards.
2	Porcelain Wall Tile replacement	Full Body Porcelain tiles needs to be fixed on walls up to height of 6ft. (for corridors, wards, waiting areas) and 6" skirting (inside rooms/offices) after dismantling of existing surface.	Full Body Porcelain tiles needs to be fixed on walls up to height of 6ft. (for corridors, wards, waiting areas) and 6" skirting (inside rooms/offices) after dismantling of existing surface.	Full Body Porcelain tiles needs to be fixed on walls up to height of 6ft. (for corridors, wards, waiting areas) and 6" skirting (inside rooms/offices) after dismantling of existing surface.	Full Body Porcelain tiles needs to be fixed on walls up to height of 6ft. (for corridors, wards, waiting areas) and 6" skirting (inside rooms/offices) after dismantling of existing surface.	Tiles specifications , brand, size and Installation will be as per specified C&W standards.

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
3	Wooden Doors flush or Solid/ Main Doors	Only damaged doors (which are few) will be replaced by Solid flush doors. Remaining doors will only be repainted properly after scrapping the old paint. Doors which are opening outside will have cantilever above them.	Only damaged doors (which are few) will be replaced by Solid flush doors. Remaining doors will only be repainted properly after scrapping the old paint. Doors which are opening outside will have cantilever above them.	Only damaged doors (which are few) will be replaced by Solid flush doors. Remaining doors will only be repainted properly after scrapping the old paint. Doors which are opening outside will have cantilever above them.	Only damaged doors (which are few) will be replaced by Solid flush doors. Remaining doors will only be repainted properly after scrapping the old paint. Doors which are opening outside will have cantilever above them.	Specifications , wood/type of door, polish, door locks and handles will be as per specified C&W standards.
4	Verandah opening (opening to open area)/ MS Windows on Façade	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali.	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali.	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali.	All damaged MS angle iron & jaali will be replaced with new MS angle iron & double jaali.	Specifications will be as per C&W standards.

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
5	Existing Internal Windows	All old MS windows will be replaced with Aluminium windows.	All old MS windows will be replaced with Aluminium windows.	All old MS windows will be replaced with Aluminium windows.	All old MS windows will be replaced with Aluminium windows.	Specifications, Aluminum and glass color will be as per specified C&W Standards
6	Internal Corridors.	All corridors need to repaint after scrapping the old paint completely.	All corridors need to repaint after scrapping the old paint completely.	All corridors need to repaint after scrapping the old paint completely.	All corridors need to repaint after scrapping the old paint completely.	
7	Internal Electric fiitings	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical.	All Electric fittings including switch boards, plates, sockets, wires, DBs & bracket fans should be replaced and installed at standard height from Finish Floor level and all must be identical.	Model Specifications / Brands, should be as per specified C&W Standards.

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
8	Internal Lighting Fixtures	All corridors and rooms should lit with SMD's with concealed wiring at 8 ft distance. All old switch fittings & DBs if requires need to be changed.	All corridors and rooms should lit with SMD's with concealed wiring at 8 ft distance. All old switch fittings & DBs if requires need to be changed.	All corridors and rooms should lit with SMD's with concealed wiring at 8 ft distance. All old switch fittings & DBs if requires need to be changed.	All corridors and rooms should lit with SMD's with concealed wiring at 8 ft distance. All old switch fittings & DBs if requires need to be changed.	Model Specifications / Brands and distance should be as per specified C&W Standards.

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
9	Revamping of Public Toilets	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.	Vanity, wash basin, water closets, bath room accessories, tile size and color will be as per specified C&W standards. All Washroom doors should be replaced with UPVC doors having specified C&W Standards.

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
10	Wall Paint	Surface of walls of all Blocks should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.	Surface of walls of all Blocks should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.	Surface of walls of all Blocks should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.	Surface of walls of all Blocks should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.	Plaster Cement Ratio, wall putty brand specifications , paint specifications , brand and color will be as per C&W standards.
11	Roof Treatment	Not required.	Not Required	Not required.	Not required.	
12	Nursing Counter (Ward)	Nursing counter will be provided upto 2.5' height with granite marble on top. Change tile on counter front with full body porcelain tile.	Nursing counter will be provided upto 2.5' height with granite marble on top. Change tile on counter front with full body porcelain tile.	Nursing counter will be provided upto 2.5' height with granite marble on top. Change tile on counter front with full body porcelain tile.	Nursing counter will be provided upto 2.5' height with granite marble on top. Change tile on counter front with full body porcelain tile.	

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
13	Stairs - Marble and Railing	Marble on stair steps is in good condition. Only damaged pieces need to be repiared.	Marble on stair steps is in good condition. Only damaged pieces need to be repiared.	Marble on stair steps is in good condition. Only damaged pieces need to be repiared.	Marble on stair steps is in good condition. Only damaged pieces need to be repiared.	Marble/Granite type and installation technique will be as per C&W Standards.
14	Ramps - Tile and Railing	Chequered tile will be fixed on ramps. SS Railing is already available.	Chequered tile will be fixed on ramps. SS Railing is already available.	Chequered tile will be fixed on ramps. SS Railing is already available.	Chequered tile will be fixed on ramps. SS Railing is already available.	
15	Façade Uplifting	Minor Façade treatment with weather shield combinations and patterns should be executed on front elevation.	Minor Façade treatment with weather shield combinations and patterns should be executed on front elevation.	Minor Façade treatment with weather shield combinations and patterns should be executed on front elevation.	Minor Façade treatment with weather shield combinations and patterns should be executed on front elevation.	
16	Lead linning Walls (X-Ray)	There are 4 nos of x-ray rooms in the hospital. All of them require lead lining completely.	Not Required	Not required.		

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
17	Anitmicrobial Treatment (OTs)	Anti-microbial treatment is required in operation theatres. (Dampa Ceiling, Anti-microbial wall panelling, anti-static flooring).				
18	External Weather Shield	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.	External weather shield of grey and white pattern of first class quality needs to be done on the front Elevation only.		
19	Edge Protection	SS Edge Protection needs to be fixed on all corners up to height of 5 ft. till the height of Wall/Dado tiles.	SS Edge Protection needs to be fixed on all corners up to height of 5 ft. till the height of Wall/Dado tiles.	SS Edge Protection needs to be fixed on all corners up to height of 5 ft. till the height of Wall/Dado tiles.		
20	Columns SS Cladding	SS cladding is required at Internal columns	SS cladding is required at Internal columns	SS cladding is required at Internal columns	SS cladding is required at Internal columns	
21	Plumbing Works	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.		
22	Fire Alarm System	Required	Required	Required	Required	
23	Elevators	---	---	---		

Sr No	Item	Emergency (GF)	Old OPD (GF)	Male Ward (GF)	CCU/Burn Unit (F.F)	Remarks
24	Expansion joint of Building	Treat expansion joint of building properly & cover it with SS patti	Treat expansion joint of building properly & cover it with SS patti	Treat expansion joint of building properly & cover it with SS patti	Treat expansion joint of building properly & cover it with SS patti	
25	Any Other item					
26	Electrification	All external main cables of hospital which are hanging in Air should be concealed in all respects. Similarly, few existing DB's need to replace as per site condition along with proper earthing of complete hospital.				

SCOPE OF WORK FOR REVAMPING OF HEALTH FACILITY DHQ HOSPITAL ATTOCK

Sr No	Description	Condition	Additional Information	
	Water Supply System		OHWR is available. Water supply lines are old & need to be replaced.	
	Sewerage System		Sewerage system is in worst condition & needs a complete overhaul. C&W will re-assess the requirement & decide accordingly.	
	External Pathways		Not required.	
	Boundary Wall		Not required.	
	Main Gate		Not required.	
	Sources of Electircal Supply			
	Transformer			
	ATS Panel for Generators			
	Electrical Panel Room			
	External Wires			
	Water Filtration Plant		RO plant is required.	

AMENDED

ROUGH COST ESTIMATE BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK ADP NO. 660 FOR THE YEAR 2022-23".

Sr. No.	Description	Plinth Area/	Unit	Plinth Area Rates					Amount	Remarks
				B.P.	E.I	S.I	S.G			
1	2	3	4	5	6	7	8	9	10	11
A	**CLINICAL BUILDING** (Internal Development, Tile work, ramp & stair paint & dampness work lead lining , façade improvement, internal fixtures, intenal electrification & miscellaneous repair work of building									This Rough Cost Estimate has been framed on the basis of Plinth Area Rates Notified Vide Chief Engineer Punjab Building Department Lahore (NZ) No. CEBNZ/1188/D-92, Dated 07.07.2022 for 2nd Bi Annual Period 1st July 2022 to 31st December 2022
1	Revamping of Main Building	1	P.Job	--	--	--	--	~~93728000~~ ~~7498000~~ 2498000	~~93728000~~ 77876000	Details attached. ~~70923500~~ 54941169
2	Provision of Water Filteration Plant with Supply System	1	P.Job	--	--	--	--	~~5289879~~ ~~4944671~~	~~5289870~~ ~~5122871~~ 4699000	Details attached.
3	Fire Alaram System	1	P.Job	--	--	--	--	~~7684668~~ ~~7684668~~	~~7684668~~ ~~7684688~~ 7574000	Details attached.
4	Provision of ATS system and Panel Board	1	P.Job	--	--	--	--	~~57875916~~	~~57875916~~ ~~52140~~ 465 39166335	Details attached.
5	Electric Panel Room (25*25)	625	Psft	3721	222			3943	2464375	Details attached.
8	Provision of Sewerage System	1	P.Job	12483635	--	--	--	12483635	12483635	Details attached.
								Total	~~179526473~~ ~~164761265~~	+ ~~572 37475~~ 121328514
								Add 5% PST charges	~~8976324~~ ~~8238063~~	~~7861873~~ 6066426
								Add Cost for WAPDA Transformer payable to IESCO (Increase the load capacity of trasnsformer	3500000	
								Grand Total:-	~~192002796~~ ~~176499328~~	~~168599348~~ 130894940
								Rs.in Million	~~192.003~~ ~~176.499~~	~~168.599~~ 130.894 (M)

TECHNICALLY VETTED

For Rs 168.599 (Million)

Chief Engineer, Punjab Buildings Deptt; North Zone, Lahore.

Deputy Director, Punjab Buildings Deptt: North Zone, Lahore

Chief Draftsman, Punjab Buildings Deptt. North Zone, Lahore

Sub Divisional Officer, Buildings Sub Division Attock

Executive Engineer, Buildings Division, Attock

Superintending Engineer, Building Circle No. 1, Rawalpindi

GENERAL COMPARATIVE STATEMENT

AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK ADP NO. 1013 FOR THE YEAR 2021-22

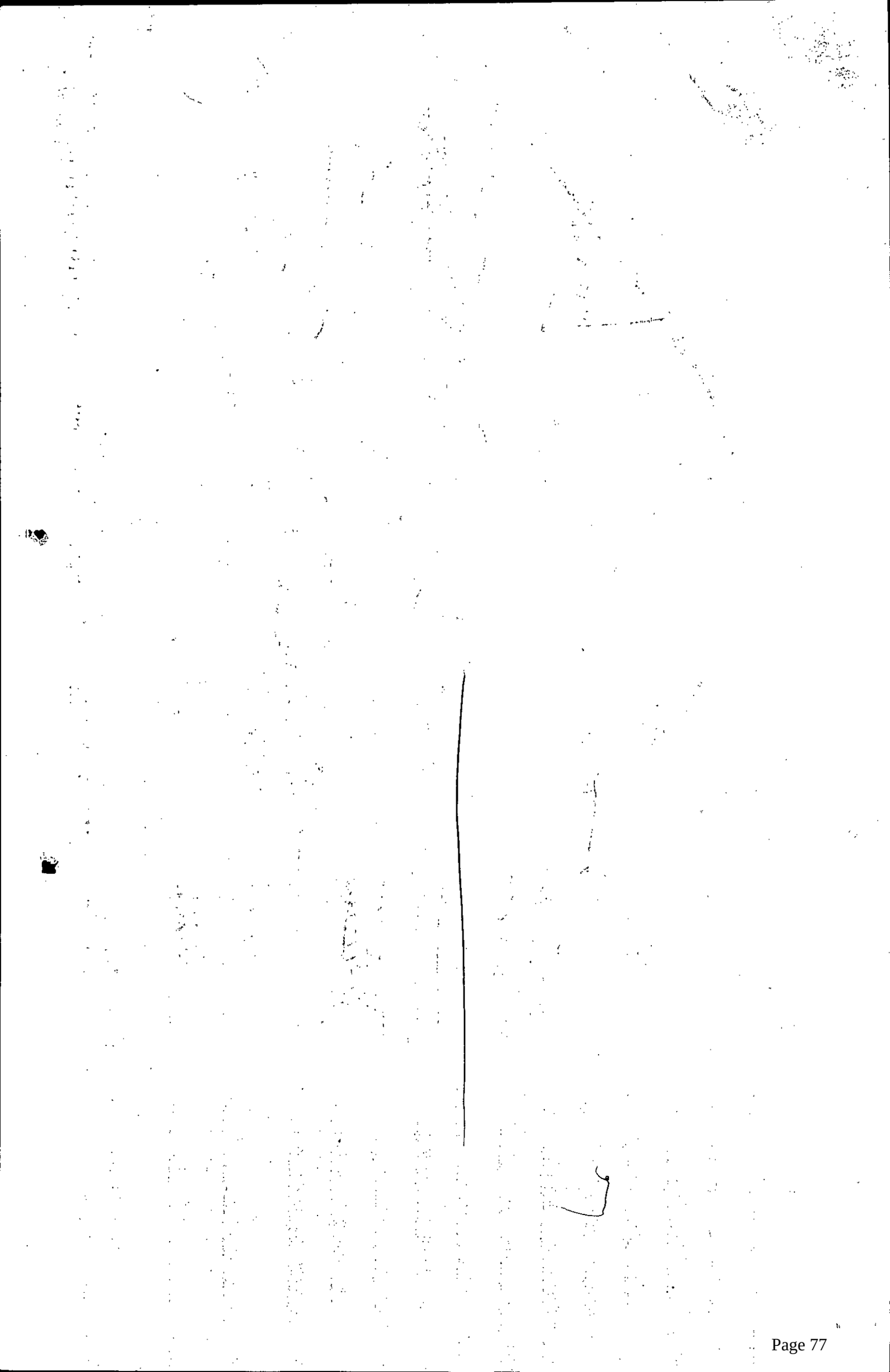
Sr. No.	Description	As per Approved R/C Estimate				As per Amended R/C Estimate				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	Revamping of Main Building	1	P.Job	69777000	69777000	1	P.Job	~~79508000~~	~~79508000~~ 77876000 5494169	~~9731000~~	0	Excess due to new rates arrived for the period 1st Half 2022.
2	Provision of Water Filteration Plant with Supply System	1	P.Job	4930160	4930160	1	P.Job	~~4744671~~	~~4744671~~ 4699000	0	~~185489~~	---do---
3	Provision of Heavy Electric Installation and Panel Room.	1	P.Job	14030300	14030300					0	14030300	---do---
4	Providing and fixing of Razor Wire	4300	P.Rft	400	1720000					0	1720000	---do---
5	Provision of Iron Spike on Boundary Wall	8600	P.Sft	650	5590000					0	5590000	---do---
6	Provision of Tuff Pavers	13051	P.Sft	197	2571047					0	2571047	---do---
7	Provision of External Waiting Area & Parking facility	1	P.Job	2924400	2924400					0	2924400	---do---
8	Provision of Sewerage Sysytem	1	P.Job	11118600	11118600	1	P.Job	12483635	12483635	1365035	0	---do---
9	Provision of Street Lights	1	P.Job	4084364	4084364					0	4084364	---do---
10	Fire Alaram System					1	P.Job	~~7684668~~	~~7684668~~ 7574000	~~7684668~~	0	---do---
11	Provision of ATS system and Panel Board					1	P.Job	~~57875916~~	~~57875916~~ ~~52140465~~ 39166335	~~57875916~~	0	---do---
12	Electric Panel Room (25*25)					625	Psft	3943	2464375	2464375	0	---do---
					Total **116745871**				~~164761265~~ ~~159237495~~ 121328514	~~79120994~~	~~31105600~~	

Sr. No.	Description	As per Approved R/C Estimate				As per Amended R/C Estimate				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
	Add 1% for tree plantation charges				1167459					0	1167459	
	Add 5% PST charges				5837294				~~0238063~~ 7861873 6066426	~~2400769~~	0	
	Add Cost for WAPDA Transformer payable to IESCO (Increase the load capacity of trasnsformer				2000000				3500000	1500000	0	
	Add Cost for Sui Gas payable to SNGPL				1000000					0	1000000	
	Grand Total:-				126750624				~~176499328~~ ~~76857348~~ 130 894940	~~49748704~~	0	
	Say:-				126750000				~~176499300~~	~~49749300~~	0	
	Rs.in Million				126.750				~~176.499~~	~~49.749~~	0	

~~168.599~~ (M)
130.894 (M)

Sub Divisional Officer
Buildings Sub Division
Attock

Executive Engineer
Buildings Division
Attock



AMENDED ROUGH COST ESTIMATE FOR "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK ADP NO. 1013 FOR THE YEAR 2021-22

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
1	**MAIN BUILDING**											
1	Dismantling glazed or encaustic tiles, etc					35293	%cft	2335.85	824392	824392	0	
2	Dismantling cement concrete 1:2:4 plain.	5123	%Cft	8421.6	431439	4424	%Cft	11174.6	494364	62925	0	
3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	2562	%Cft	5495.7	140800					0	140800	
4	Cement concrete, plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4	5123	%Cft	24433.2	1251713	4424	%Cft	36753.3	1625966	374253	0	
5	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles 600mmx 600 mm					35408	Psft	340.35	12051113	12051113	0	
6	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge Full body Glazed Tile 600mm x600 mm					24079	P.Sft	340.35	8195288	8195288	0	
7	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"					1487	P.Sft	239.8	356583	356583	0	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
8	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"					6104	P.Sft	292.55	1785725	1785725	0	
9	Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge. (b) Bevelled edges & flange 21.5 mm (iii)600 mmX 600 mm					2282	P.Sft	400 ~~431~~	912800 ~~983542~~	~~983542~~	0	
10	Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge. (a) Cementitious Urethane (b) Epoxy (c) Polyurethane (d) Urethane					2282.00	P.Sft	516	1177512	1177512	0	
11	Providing and fixing multi layer Aluminum Composite Panel Cladding comprising of PVC/PE coating over high strength Anti-rust Aluminum sheet of specified thickness over Polymeric membrane over LDPE/FR high fire retrdent core made of Alpolic/Areca i/c the cost of base frame of !-1/2"X1-1/2" GI angle Iron at specified intervals fillling the groove with Silicon and Hardwares as approved and directed by the Engineer Incharge. (i) 3 mm thick (Interior)					4498.00	P.Sft	1788	8042424	8042424	0	

Sr. No.	Description	As per Appr[redacted] Rough cost Estimate (1st July to 3[redacted] December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
12	P/L Pre-Polished Procelin Tile (Spm 110) Light Polished Sb Of Size 24"X24" Master Or Equivalent Made Tile Laid In White Cement Over 1/2" Thick C/S Mortar 1:2 I/C Filling Of Joints With Matching Pigment Complete In All Respect As Approved By The Engineer In Charge (For Flooring)	29087	P. Sft	276.00	8028012					0	8028012	
13	P/L Master Wall Tile size 12"x36" Master or Equivelent laid over 1:2 cement sand mortar i/c filling of joint with matching pigment complete in all respect as approved and directed by the Engineer Incharge (For Flooring).	1500	P. Sft	270.00	405000					0	405000	
14	Removing cement or lime plaster.	40022	%Sft	319	127670					0	127670	
15	Cement plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	40022	%Sft	2297.75	919606					0	919606	
16	P/L Pre-Polished Procelin Tile (Spm 110) Light Polished Sb Of Size 24"X24" Master Or Equivalent Made Tile Laid In White Cement Over 1/2" Thick C/S Mortar 1:2 I/C Filling Of Joints With Matching Pigment Complete In All Respect As Approved By The Engineer In Charge (For Skirting)	37417	P. Sft	293.00	10963181					0	10963181	
17	P/L Master Wall Tile size 12"x36" Master or Equivelent laid over 1:2 cement sand mortar i/c filling of joint with matching pigment complete in all respect as approved and directed by the Engineer Incharge (For Skirting)	4284	P. Sft	280.00	1199520					0	1199520	
18	P/F False ceilling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.	29087	P. Sft	360	10471320					0	10471320	
19	Preparing surface and painting with emulsion paint 3 coats i/c Scraping Ordinary distemper, oil bound distemper, or paint of wall.	47337	%Sft	2774.95	1313578					0	1313578	
20	Preparing surface and painting with emulsion paint 2 coats					164409	%Sft	2034.65	3345148	3345148	0	
21	P/F Of U-PVC Door I/C Chowkat Framed 70Mm Casement Frame For Openable Delux / White With Multi Locking System, Special Uv Resistent Profile With Titanium Dioxide Belgium (Deceuninck) Made Complete In All Respect As Approved And Directed by the Engineer Incharge.	560	P. Sft	2918	1634080					0	1634080	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
22	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					735	P. Sft	950 ~~2500~~	698250 ~~1837500~~	~~1087500~~	0	
23	Removing door with chowkat.	50	Each	331.65	16583	52	Each	438	22776	6193	0	
24	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	544	P. Sft	586.45	319029	192	P. Sft	1437.6	276019	0	43010	
25	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.					1355	P. Sft	678.55	919435	919435	0	
26	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.(Non-Skid Chequred Tiles) 300mmx300mm					2120	P. Sft	211.4	448168	448168	0	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
27	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge					880	P. Sft	2361.45	2078076	2078076	0	
28	Providing and fixing heavy duty 3 mm thick SS Plate, die-cast metal auotomatic hydraulic operated door stopper (Concealed floor hinge) embeded in floor i/c the cost of Top pivot hinge,hardware, cutting of floor and making it good complete in all respect as approved and directed by the Engineer Incharge.					5	Each	5572	27860	27860	0	
29	Removing windows and sky lights with chowkat.	137	Each	258.7	35442	179	Each	341.5	61129	25687	0	
30	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"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), 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.	4782	P. Sft	498.5	2383827	4046	P. Sft	1348.4	5455626	3071799	0	
31	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.	4782	P. Sft	330.05	1578299	2023	P. Sft	493.05	997440	0	580859	
32	P/F of M.S Grill to Windows using 1/2"x1/2" Sq Bar @ 4" C/C vertically in two parts with 2 No. Horizental Lknow for using sliding of windows 1"x1"x1/8" angle iron frame alaround i/c painting 3 coats hold fast complete in all respect as approved and directed by the Engineer Incharge.	4782	P. Sft	463	2214066		P. Sft	463	0	0	2214066	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
33	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.3/8" Squar Bars					4046	P. Sft	854.8	3458521	3458521	0	
34	Removing cement or lime plaster.					11034	%cft	423.3	46707	46707	0	
35	Cement plaster 1:6 upto 20' (6.00 mm) height:-½" (13mm) thick					11034	%sft	2996.8	330667	330667	0	
36	Cement plaster 1:4 upto 20' (6.00 mm) height:-½" (13mm) thick					3900	%sft	3232.95	126085	126085	0	
37	Providing and fixing 22-SWG /12X12 G.I wire mesh and expanded metal (diamond hole shape) 5mm thick duly fixed with M.S patti 1"x1/8" on M.S angle iron frame 1½"X1½"X3/16" and braces @ 2 ft C/c horizontally & vertically i/c the cost of matt paint as approved & directed by the Engineer Incharge					6480	P. Sft	171.35	1110348	1110348	0	
38	Painting doors and windows, any type two coats i/c Brushing and scraping blisters of old paints from woodwork.					14060	%sft	2175.5	305875	305875	0	
39	Scraping Ordinary distemper, oil bound distemper, or paint of wall.					164409	%Sft.	761.9	1252632	1252632	0	
40	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast, hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete (excluding sliding bolt or lock) 1½" thick (40 mm)	380	P. Sft	1303.1	495178					0	495178	
41	Providing and fixing sliding bolt to doors iron sliding bolt, 12" (300 mm) long	10	Each	393.55	3936					0	3936	
42	Dismantling 2nd class tile roofing.	9321	%Sft	957	89202					0	89202	
43	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded i/c polythene sheet 500 gauge.	9321	%Sft	8635.95	804957					0	804957	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
44	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge Type (SDR 32.5/SN-8) 4"(110 mm)					750	PRft	440.65	330488	330488	0	
45	Providing and installing P.V.C. bends, of B.S.S. Class 'B' working pressure 4" i/d (100 mm)					50	PRft	543.55	27178	27178	0	
46	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	25	Each	595.45	14886	50	Each	835	41750	26864	0	
47	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge. Led Lining 1.5 mm Thick					624	Psft	1308.85	816722	816722	0	
48	Providing and fixing high quality ~~LED SMD Panel light 2 ft×2 ft of specified wattage anf Luminous flux with Polystyrene bowl/prismatic cover made of Philips as approved and direced by the Engineer Incharge. Lumens. 110Lumn/Watt (i) 36 watt~~ As Approved by Engineer incharge					~~2810~~ 1000	P. Sft	1020.00	~~2866200~~ 1020000	~~2866200~~ 1020000	0	
49	S/E Of SMD Light (16 Watt) Of Approved Manufacturer Complete In All Respect As Approved & Directed By The Engineer Incharge.					350	Each	1800	6300	6300	0	
50	Providing and fixing 3" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung on painted brackets of MS angle iron of 1"x1"x1/8" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge.16SWG 4"x3"					500	PRft	335.35	167675	167675	0	
51	...do....6"x3"					100	PRft	402.7	40270	40270	0	
52	Cement plaster 1:5 upto 20' (6.00 mm) height ½" (13 mm) thick i/c Removing cement or lime plaster.					3327	%sft	3082.5	102555	102555	0	
53	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-On interior surface (without mastic strip)					165	PRft	147.3	24305	24305	0	

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
54	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.i/c Providing and fixing 6 in (150 mm). wideG.I. sheet 18SWG. stopper to expansion joint.					520	PRft	281.25	146250	146250	0	
55	Supply and erection of fancy LED Pannell light 2'x2' i/c LED Light & Driver 36 (W) (Philips / Alpha LED Ultra Slim) or Equivalent i/c fixing in false ceiling and electric connection complete in all respect as approved/ directed by the Engineer Incharge	898	Each	10920	9806160					0	9806160	
56	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave	380	P. Sft	54.3	20634					0	20634	
57	S/E English W.C Porta made imported one piece i/c double seat cover full size i/c thimble complete set color ICI/forte or equivalent complete in all respect as approved by the Engineer Incharge.	12	Each	19995	239940					0	239940	
58	P/F Orissa W.C Porta made imported complete set color ICI/forte or equivalent complete in all respect as approved by the Engineer Incharge.	14	Each	5790	81060					0	81060	
59	Providing And Fitting Glazed Earthen Ware Wash Hand Basin (HD80) Porta Made 56 X 40 Cm (22" X 16"), Including Bracket Set, Waste Pipe And Waste Coupling, Etc. Colour With Pedestal As Approved And Directed By The Engineer In Charge.	14	Each	10153	142142					0	142142	
60	P/F Spun Pipe of approved quality (Tipu Supreme) with cement yarn joints etc complete in all respect as approved and directed by the Engineer Incharge 4" dia	713	P. Rft	493	351509					0	351509	
61	P/F of spun pipe specials such as tee, coller, bend etc plain type / plug type of approved quality (Tipu supreme) with cement yarn joints complete in all respect as approved and directed by the Engineer Incharge	75	Each	405	30375					0	30375	
62	P/F of UPVC wall paneling UPVC section like plank, beading gola, angle gola 200 mm wide 9mm thick designed grooved planks fixed with inter locking system nails scew on existing wall produced in plumbs using wooden strips (Anti termite) i/c carriage of material from market to site work complete in all respect as approved/ directed by the Engineer Incharge	13088	P. Sft	125	1636000					0	1636000	

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
63	Construction of Reception Counter Brick Masonry Structure 3.5' height from ground level consisting of marble granite and kitchen cabnit 22" deep with back Complete in all Respect.	450	P. Sft	4916	2212200	145	P. Sft	6170	894650	0	1317550	
64	P/F Stainless steel corner beading angle 2"x2"x1/16" with double tape fixed with stainless steel nails i/c cutting fixing complete in all respect as approved by the Executive Engineer.	2600	P. Rft	648	1684800					0	1684800	
65	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.					1200	P. Sft	640.00	768000	768000	0	
66	Cement pointing 1:2 flush on floor					10690	%sft	2597.90	277716	277716	0	
67	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect old surface two coats.	15607	%Sft	2068	322753	11702	%Sft	3850.9	450632	127879	0	
68	P/F of LEAD Lining 2mm thick lead sheet with wall for radiation protection upto roof height as aper instruction & covering with MDF Board 3/4" thick panelling i/c frame of Kail Wood 1-1/2"x2" i/c termite proofing & fancy Deodar Wood Beading complete in all respect as approved and directed by the Engineer Incharge also approved the Radiation Protecting agency etc.	1568	P. Sft	970	1520960					0	1520960	
69	P/L Sunny Grey Marble 1/2" To 3/8" Thick Laid On Top Of Parapit At 2Nd And 3Rd Floor Of Width 1.25" Laid With 1:2 Cement Sand Mortor, Providing 3/8" Thick Slope Inside Without Rubbing But Also Include Filling Of Joint Projected Outside 1/2" Complete In All Respected As Approved Directed By The Engineer Incharge	822	P. Sft	160	131520					0	131520	

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
70	Providing / Fixing stainless steel non magnetic stair railing 2-3/4" height consisting of 2" dia 18 SWG pipe top hand rail welded over vertical balustrade, of 1-1/2" wide 3/8" thick stainless steel double strip with stainless stud welded to fancy reducer 2"x1/2" at top and M.S tikki 3" dia 1/4" thick at bottom fixed on steps with holding down rawel bolts 3"x3/8" M.S tikki covered with architectural multi offset shape stainless steel cap 3" dia at bottom and reduced to 1-1/2" dia at top in 2" height in horizantal steel cap 3" dia at bottom and reduced to 1-1/2" dia at top in 2" height in horizantal stainless steel pipe 3/4" dia 18 SWG 3 No fixed with vertical balustrades i/c steel polishing fixed at site complete in all respect and as approved by the Engineer Incharge (All stainless steel member, shell be of non magnetic) code No 304	288	P. Rft	2400	691200					0	691200	
71	Providing and fixing of vanity comprising of 3/4" thick pre-polished marble slab Granite size 6'x2' laid in white cement and matching pigment over ¾" thick cement mortar 1:2 i/c making holes in slab, rubbing & chemical polishing and making gola on exposed edges complete in all respect as approved by the Engineer Incharge.	6	Each	26000	156000					0	156000	
72	Providing And Fixing Chromium Plated Mixture Set (Master Or Eq. Made) (Comprising Of Valve Shower, Mixing Valve) Etc. Complete In All Respect As Approved And Directed By The Engineer In Charge.	20	Each	24412	488240					0	488240	
73	P/F Of Bath Room Accessories Set Comprising Of Looking Mirror, Shelf, Towel Rail, Towel Ring, Toilet Paper Holder, Soap Dish, Having Mug, Tooth Brush Holder Complete In All Respect As Approved / Directed By The Engineer Incharge.	8	Each	6500	52000					0	52000	
74	Providing And Fitting Low Down Flushing Cistern 13.63 Litres (3 Gallons) Capacity, Plastic (Master or Eq. Made) Including Bracket Set; Copper Connection, Etc Complete In All Respect As Approved And Directed By The Engineer In Charge.	14	Each	3200.00	44800					0	44800	
75	Providing And Fixing Chromium Plated Double Head Bib Cock 1/2" Dia (Master Or Eq. Made) Complete In All Respect As Approved And Directed By The Engineer In Charge.	32	Each	4314	138048					0	138048	
76	Providing And Fixing Muslim Shower With Flexible Pipe (Master Or Eq. Made) Complete In All Respect As Approved And Directed By The Engineer In Charge.	12	Each	1500	18000					0	18000	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
77	Providing, laying, cutting, jointing, testing and disinfecting P.V.C. pipe line with `B' Class working pressure pipe, in trenches, complete in all respects 4" i/d (100 mm)	540	P. Rft	318.3	171882					0	171882	
78	Providing and fitting "P" trap 10 cm (4") glazed	46	Each	173.85	7997					0	7997	
79	P/F Stainless Steel Grating (Jali) 6"X6" For Floor Trap Complete In All Respect As App By The Engineer Incharge	25	Each	684	17100					0	17100	
80	S/E of Emergency Exit logo light 8 Watt best quality complete in all respect as approved and directed by the Engineer Incharge.	10	Each	2820	28200					0	28200	
81	S/E of Emergency Warning light 8 Watt best quality complete in all respect as approved and directed by the Engineer Incharge.	50	Each	3060	153000					0	153000	
82	Supply & errection of Wall Bracket fan plastic body 18" size GFC / Pak Fan made i/c fitting and making electric connection complete in all respect as approved by the Engineer Incharge.	70	Each	6817	477190					0	477190	
83	P/F Of Gang Plate 4 To 6 Holes I/C Box Imported Best Quality Complete In All Respect As Approved And Directed By The Engineer Incharge.	110	Each	360	39600					0	39600	
84	P/F Of Gang Plate 8 To 10 Holes I/C Box Imported Best Quality Complete In All Respect As Approved And Directed By The Engineer Incharge.	50	Each	432	21600					0	21600	
85	S/E of Power Plug 20Amp complete in all respect as approved and directed by the Engineer Incharge.	40	Each	660	26400					0	26400	
86	P/F Of Switch Single Pole One Way Imported Best Quality Complete In All Respect As Approved And Directed By The Engineer Incharge.	800	Each	156	124800					0	124800	
87	P/F Of Fan Dimmper Of Best Quality Complete In All Respect As Approve And Directed By The Engineer In Charge.	160	Each	360	57600					0	57600	
88	P/F Of Socket Three Pin 10/15 Amp Imported Best Quality Complete In All Respect As Approve And Directed By The Engineer In Charge.	200	Each	336	67200					0	67200	
89	Plinth Area Rates 2nd BI Annual 2021 Notified Vide Chief Engineer Punjab Building Department Lahore (NZ) No. CEBNZ/1120/D, Dated 09.07.2021 for 2nd Bi Annual Period 1st July 2021 to 31st December 2021					15006			333000	0 223022	0	
i	Electric Installation as per Plinth area rate	9321	P. Sft	118	1099878	~~38000~~	P. Sft	222	~~8436000~~	~~7336122~~	0	
ii	Public Health as per Plinth area rate	9321	P. Sft	92	857532	38000	P. Sft	117	4446000	3588468	0	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st July to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
iii	Sui Gas as per Plinth area rate	9321	P. Sft	31	288951					0	288951	
				Total (A): -	68048595			Total (A):	~~77479612~~ 76269620			
	Deduction of Old Material											
1	Old Doors with Chowkat	50	Each	1500	75000	52	Each	1500	78000	3000	0	
2	Old Windows	137	Each	1000	137000	179	Each	1000	179000	42000	0	
3	Tiles 9"x4-1/2"x1-1/2"	24143	%0Nos	6000	144858					0	144858	
4	Tile Bats	1165	%Cft	2500	29125					0	29125	
5	Electric Cables (Unserviceable)	1	P. Job	15000	15000	1	P. Job	30000	30000	15000	0	
				Total (B): -	400983			Total (B):	287000			
				Net (A-B): -	67647612			Net (A-B):	~~77192612~~	75982620		
	Add 3% Contingency on all Items except Item No. 89: -				2029428	Add 3% Contingency on all Items except Item No.89: - 6360620/-			1893018 ~~2315778~~			
				G-Total: -	69777040			G-Total: -	~~79508390~~			
				Say: -	69777000			Say: -	~~79508000~~			

~~77875638/-~~
~~70923438/-~~
54941169/-

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
2	**ROOM FOR FILTERATION PLANT & CHILLER**											
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in Hard soil.	1375	%0Cft	8078.4	11108	1375	%0Cft	11949.45	16430	5322	0	
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth Ratio 1: 6: 12	366	%Cft	13037.1	47716	366	%Cft	21178.45	77513	29797	0	
3	Pacca brick work in foundation and plinth in Ratio 1:6	662	%Cft	23388.75	154834	662	%Cft	30137	199507	44673	0	
4	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	94	P.Cft	291.35	27387	94	P.Cft	537.5	50525	23138	0	
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars Grade-40.	288	%Kg	19996.45	57590	288	%Kg	31418.2	90484	32894	0	
6	Providing and laying damp proof course of cement concrete 1:2: 4 including bitumen coating with one coat bitumen and one coat polythene sheet 500gauge 1.5" thick	89	%Sft	5642.95	5022	89	%Sft	8600.8	7655	2633	0	
7	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating with one coat of bitumen and one coat of polythene sheet 500 gauge ratio 1:4 ½" thick	129	%Sft	3791.35	4891	129	%Sft	5514.55	7114	2223	0	
8	Pacca brick work in ground floor with cement, sand mortar Ratio 1:6	1083	%Cft	25038.75	271170	1083	%Cft	32320.85	350035	78865	0	
9	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 1: 2: 4 ratio	664	P.Cft	402.4	267194	352 ~~355~~	P.Cft	537.5	189200 ~~190813~~	0	~~76381~~	
10	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars Grade-40.	2033	%Kg	19996.45	406528	1078 ~~1087~~	%Kg	31418.2	338688 ~~341516~~	0	65012	
11	Cement plaster 1:5 upto 20' height ½" thick	1177	%Sft	2210.4	26016	1177	%Sft	3082.5	36281	10265	0	

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
12	Cement plaster 1:4 upto 20' height ½" thick	1353	%Sft	2297.75	31094	~~1353~~	%Sft	~~3232.95~~	~~43750~~	~~42656~~	0	
13	P/F Terracota Khaprail Tiles of approved design and colour on top of slope of window shade & roof, laid over bed of (1:3), 3/4" thick Cement Sand mortar including cost of laying, finishing complete in all respect as approved & directed by the Engineer Incharge.	742	P.Sft	120	89006	1353	%Sft	4164/35	56354	0	89006	
14	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height 1:3 ratio	615	%Sft	2625.8	16145	615	%Sft	3699.4	22747	6602	0	
15	Filling, watering and ramming earth under floors with surplus earth from foundation, etc	917	%0Cft	3867.6	3547	917	%0Cft	5090.45	4668	1121	0	
16	Filling, watering and ramming earth under floors with surplus earth from foundation, etc with new earth excavated from outside, 3 mile	0	%0Cft	13228.6	0	0	%0Cft	18484.85	0	0	0	
17	Supplying and filling sand under floor; or plugging in wells.	152	%Cft	1879	2856	152	%Cft	3429.85	5213	2357	0	
18	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects	218	%Cft	5495.7	11981	218	%Cft	9464.4	20632	8651	0	
19	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4	74	%Cft	24433.2	18081	74	%Cft	36753.3	27197	9116	0	
20	Providing and laying topping of cement concrete 1:2.4, including surface finishing and dividing in panels (c) 1½"(40 mm) thick	328	%Sft	4672.25	15325	328	%Sft	6927.1	22721	7396	0	
21	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x 3/8" thick	197	P.Rft	9.25	1822	197	P.Rft	19.8	3901	2079	0	
22	Providing and fixing windows consisting of M.S. box section frame 2"x1½", leaves frame 1-½"x1" box section frame for glazing 3/8"x3/8" using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" M.S. flat for fixing 3/16" thick glass panes M.S. box section ½"x½" of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" M.S. flat and screws I/C all C.P. fitting and painting 3 coats complete in all respect.	90	P.Sft	598.85	53897	30	P.Sft	1,605.35	48161	0	5736	

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
23	Providing and fixing 1½" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows, with mild steel chowkat (frame), etc. complete in all respects (excluding sliding bolt or lock) with M.S. angle iron 1½"x1½"x¼", welded (40 mmx 40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm) (1103.25 - 260.40)	34	P.Sft	842.85	28657					0	28657	
24	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge Double Leaf					34	P.Sft	1,393.25	47371	47371	0	
25	P/L Prepolished Porcelain Tile "Master" With Dry / Wet / Venied Application, DWV Series (Light Color) Class SB, 16"X16" Size laid over a bed of 3/4" thick C/S Mortar 1:2, i/c filling joints with white cement mixed with matching pigment complete in all respect as Approved By The Engineer Incharge (For Floor)	460	P.Sft	218	100280					0	100280	
26	P/L Prepolished Porcelain Tile "Master" With Dry / Wet / Venied Application, DWV Series (Light Color) Class SB, 16"X16" Size laid over a bed of 3/4" thick C/S Mortar 1:2, i/c filling joints with white cement mixed with matching pigment complete in all respect as Approved By The Engineer Incharge (For skirting)	104	P.Sft	234	24336					0	24336	
27	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 600mmx 600 mm					460	P.Sft	340.35	156561	156561	0	
28	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full body Glazed Tile 600mm x600 mm					104	P.Sft	340.35	35396	35396	0	
29	Distempering new surface two coats with primary coat of chalk (614.20+198.70)	1177	%Sft	812.9	9568	1177	%Sft	1283.5	15107	5539	0	

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1	2	3	4	5	6	7	8	9	10	11	12	13
30	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: new surface: 2 coat	1508	%Sft	3116	46997	~~1508~~	~~%Sft~~	~~1925.45~~	~~29041~~	0	~~17956~~	
31	Glazing with panes (24 oz. to 26 oz.), using putty and deodar wooden fillets.	8	P. Sft	145.9	1167	8	P. Sft	207.15	1657	490	0	
32	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	8	P. Sft	317	2536	8	P. Sft	492.15	3937	1401	0	
33	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing using grey cement ½"(13 mm) thick	142	%Sft	14693.45	20865	142	%Sft	20953.65	29754	8889	0	
34	P/f of Filtration Plant of SOSAFE i/c all accessories as per specifications, pressure sand filter ss-24 1 no., jumbo sediment filter 20" (5 micron) gac-20(Activated carbon purifier) jumbo sediment filter 20" (1 micron) chlorine dosing system, Uf membranes, water collecting point, stainless steel header (SS 304) with 6 Nos water taps, UPVC face piping from sand Fiter to UF membranes 1 job as directed/approved by Engineer Incharge.	1	P.Job	1326400	1326400	1	P.Job	~~1627920~~	1604480 ~~1627920~~ 1469289	~~301520~~	0	
				Sub Total	3084016			Sub Total	~~3513607~~			
	E.I FOR FOR FILTRATION PLANT											
1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials									0	0	
i	3/4" dia	50	P.Rft	61	3050	50	P.Rft	94.6	4730	1680	0	
2	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only).									0	0	

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1	2	3	4	5	6	7	8	9	10	11	12	13
i	3/0.029	300	P.Rft	14.05	4215	300	P.Rft	25.7	7710	3495	0	
ii	7/0.036	50	P.Rft	25.6	1280	50	P.Rft	21.7	1085	0	195	
3	S/E of wall box plastic frame (Hi-Life) lovery colour i/c fixing charges complete in all respect as approved \ Directed by the Engineer Incharge.									0	0	
i	For 1-3 Switches	2	Each	234	468				0	0	468	
ii	For 1-6 Switches	3	Each	294	882				0	0	882	
4	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge									0	0	
i	One way Gange Switch Small 03 Gange					2	Each	742.5	1485	1485	0	
ii	Large 06 Gange					3	Each	1162.5	3488	3488	0	
5	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	1	Each	49.45	49.45	1	Each	67.80	68	18.35	0	
6	Erection of ceiling fan along with regulator all size I/c carriage from local railway station / store to site of work electric wire / cable for suspening rod and board connection & cutting threading on rod where necesssary	1	Each	312.5	312.5	1	Each	462.5	463	150	0	
7	S/E of ceiling fan 56" sweep complete in all respect	1	Each	5000	5000	1	Each	7000	7000	2000	0	
8	P/F Of Switch Single Pole One Way Imported Best Quality Complete In All Respect As Approved And Directed By The Engineer Incharge.	8	Each	156	1248				0	0	1248	
9	Supply and erection of button holder	4	Each	36	144	4	Each	104.15	417	272.6	0	

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1	2	3	4	5	6	7	8	9	10	11	12	13
10	P/F pannel board made of 18 SWG M.S sheet 12"x18" size housing of automatic miniatuere circuit breaker Fuji/Terrasaki with neutral link with the following breakers: (i) 6-10 Amp (S.P) 5 No. (ii) 11-20 Amp (SP) 2 Nos,(iii) 60-65 Amp (SP) 2 Nos. i/c 3 coats painting, cable connection, cost of volt meter, ampere meter, indicator bulb complete in all respect as approved and directed by the Engineer Incharge.	1	Each	18744	18744	1	Each	43580	43580	24836	0	
11	Supply and erection of 3 pin 10/15 Amp. wall socket with shoe, open type.	4	Each	157.85	631.4				0	0	631.4	
12	S/E Of Led Light (08 Watts) Of Approved Manufacturer Complete In All Respect As Approved & Directed By The Engineer Incharge.	4	Each	338	1352				0	0	1352	
13	Supply and erection of LED Bulb 12 Watt Complete in all respect as approved and directed by the Engineer Incharge.					4	Each	440	1760	1760	0	
				Sub Total	**37376**			**Sub Total**	**71784**	**39184**	**4776**	
	WATER SUPPLY NETWORK FOR FILTRATION PLANT											
1	Excavation in trenches in all kind of soil, except cutting rock, for water supply pipelines upto 5 ft (1.5m) depth from ground level, i/c trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints etc complete in all respect.	12800	%0Cft	5755.2	73667	12800	%0Cft	7622.75	97571	23904.64	0	
2	P/L PPRC pipe PN-20 for hot and cold water Dadex/Beta/ Abshar i/c making jharries in existing brick masonary and the cost of pipe (fusion threaded) i/c cost of solution of same quality etc complete by the Engineer Incharge									0	0	
a	From Filteration room to distrubtion line 63 mm.	1200	P.Rft	414.00	496800	1200	P.Rft	377.95	453540	0	43260	
b	---do--- 40 mm	1100	P.Rft	170.00	187000	1100	P.Rft	161.30	177430	0	9570	
c	---do--- 25 mm	1500	P.Rft	93.00	139500	1500	P.Rft	66.50	99750	0	39750	
d	---do---20 mm	1000	P.Rft	83.00	83000	1000	P.Rft	48.10	48100	0	34900	
3	P/F C.P. bib cock Master Made complete as approved by the Engineer Incharge	10	Each	2226.00	22260	10	Each	1015.00	10150	0	12110	

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1	2	3	4	5	6	7	8	9	10	11	12	13
4	P/F ball valve / control Valve complete as approved by the Engineer Incharge.1.5" dia.	20	Each	864.00	17280	20	Each	990.00	19800	2520	0	
b	---do--- 1" dia.	24	Each	732.00	17568	24	Each	1674.00	40176	22608	0	
c	---do--- 3/4" dia.	52	Each	348.00	18096	52	Each	1434.00	74568	56472	0	
6	S/E of Electric Water Cooler NESGAS made 65 ltr Capacity (Qutation Attached)	10	Each	61000	610000				0	0	610000	
	Sub Total				**1665171**	**Total**			**1021085**	**105505**	**749590**	
	G-Total: -				**4786563**	**G-Total: -**			4562158 ~~4606477~~	~~144689~~	~~754366~~	
	Add 3% Contingency on all Items 56: -				**143597**	~~Add 3% Contingency on all Items except Item No. 56: -~~			136865 ~~138194~~	~~4341~~	~~22631~~	
	G-Total: -				**4930160**	**G-Total: -**			~~4744671~~	~~149030~~	~~776897~~	
3	**Heavy Electric Installation and Panel Room.**								4699022			

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1	2	3	4	5	6	7	8	9	10	11	12	13
1	Supply At Site, Fabrication, Installation, Testing, Commissioning And Connections Of Wires/Cables Of Distribution Boards Concealed Type To Be Installed On Site And Made Of Ms Sheet 16 Swg Degreased And Degusted, Zinc Phosphate, Finished With Electro-Static Powder Coating Of 15 Micron Thickness In Approved Colour With Hinged Door, Flexible Earthing Strip Lockable Handle, Catcher Earthing Bar Neutral Strip, Internal Wiring From Mcbs Terminating On Cable Terminal Blocks, Including Cost Of All Necessary Materials. All Dbs Mentioned Below Shall Have 3 Phase Indication Lamps Transformer Type Of Colour Red, Yellow, Blue And 1-Voltmeter Scaled 0-500 V. With Voltmeter Selector Switch Including All Incoming And Outgoing Breakers Manufactured By Siemens, Abb, Clipsal Or Approved Equal. Complete In All Respect And To The Instruction Of The Engineer In Charge. Incoming: - 1 No: 600 Amps 3 Phase Adjustable Mccb With Overload And Short Circuit Protection, R.C. Not Less Than 25 Ka, With Additional 4 Copper Flats For Cable Connections On Incoming Side Of Mccb. Outgoing: - 2 No: 400 Amps 3 Phase Adjustable Mccb With Overload And Short Circuit Protection	1	Each	450000	450000					0	450000	
2	Supply And Erection Of Sub Distribution Power Boards Concealed Type To Be Installed On Site And Made Of Ms Sheet 16 Swg Degreased And Degusted, Zinc Phosphate, Finished With Electro-Static Powder Coating Of 15 Micron Thickness In Approved Colour With Flexible Lockable Handle, Indication Lamps 1-Voltmeter Scaled 0-500 V. With Voltmeter Selector Switch Including All Incoming And Outgoing Breakers Of Approved Manufacturer Complete In All Respect As Approved And Directed By The Engineer Incharge. Incoming: - 1 No: 400 Amps 3 Phase Adjustable Mccb With Overload And Short Circuit Protection Outgoing: - 6 Nos: Mccb Tp 200A 18Ka	4	Each	135900	543600					0	543600	

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
3	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X24"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 8 No. Circuit Breaker 50 Amp D/P, 6 No. Circuit Breaker 20 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	2	Each	61200	122400					0	122400	
4	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X24"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 24 No. Circuit Breaker 11-20 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	1	Each	69400	69400					0	69400	
5	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X30"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 24 No. Circuit Breaker 11-20 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	2	Each	90600	181200					0	181200	
6	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X24"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 12 No. Circuit Breaker 11-20 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	3	Each	52100	156300					0	156300	
7	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X24"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 6 No. Circuit Breaker 50 Amp D/P, 6 No. Circuit Breaker 20 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	1	Each	56800	56800					0	56800	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
8	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X24"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 4 No. Circuit Breaker 50 Amp D/P, 8 No. Circuit Breaker 20 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	3	Each	55200	165600					0	165600	
9	S/E Of Branch Distribution Board Consisting Of 16 Swg M/S Sheet Box 18"X24"X6" Duly Powder Coated I/C Cost Of 1 No. Circuit Breaker 125 Amp T/P, 4 No. Circuit Breaker 63 Amp D/P, 3 No. Volt Meter, 1 No. Ampair Meter, Selector Switch, Led Neon Lights Bus Bar (1-1/2"X1/8") 14" Thimbling At Connection Having Glass Complete In All Respect As Approved And Directed By The Engineer Incharge.	2	Each	43700	87400					0	87400	
10	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG 37/2.62 mm (37/0.103")	350	P. Mtr	12184.55	4264593					0	4264593	
11	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG 37/2.11 mm (37/0.083")	500	P. Mtr	8032.7	4016350					0	4016350	
12	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG 19/1.63 mm (19/0.064")	300	P. Mtr	2479.6	743880					0	743880	
13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable 7/1.63 mm (7/0.064")	200	P. Mtr	901.6	180320					0	180320	
14	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable 7/1.12 mm (7/0.044")	230	P. Mtr	451.8	103914					0	103914	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
15	Providing, laying, cutting, jointing, testing and disinfecting P.V.C. pipe line with `B' Class working pressure pipe, in trenches, complete in all respects 6" i/d (150 mm)	350	P. Mtr	2054.05	718918					0	718918	
16	Providing, laying, cutting, jointing, testing and disinfecting P.V.C. pipe line with `B' Class working pressure pipe, in trenches, complete in all respects 4" i/d (100 mm)	1230	P. Mtr	1044.1	1284243					0	1284243	
17	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	7773	%0Cft	5755.2	44735					0	44735	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
18	Construction of Panel Room on Plinth Area Rates Notified Vide Chief Engineer Punjab Building Department Lahore (NZ) No. CEBNZ/1120/D, Dated 09.07.2021 for 2nd Bi Annual Period 2021 (1st July 2021 to 31st Dec 2021) Rate (2327+118) = **@ Rs. 2445 P. Sft**	182	P. Sft	2445	444990					0	444990	
				Total: -	**13634643**			**Total**	**0**	**0**	**13634643**	
	Add 3% Contingency except Item No. 13 on Rs. 13189653/-: -				**395690**						**395690**	
				Total: -	**14030333**			**Total**			**14030333**	
4	**Fixing of Razor Wire**	4300	P.Rft	400	1720000					0	1720000	
5	**Provision of Iron Spike on Boundary Wall**	8600	P.Sft	650	5590000					0	5590000	
6	**Provision of Tuff Pavers**	13051	P.Sft	197	2571047				0	0	2571047	
7	**External Waiting Area & Parking facility**											
	Making And Fixing Fiber Glass Shed 2Mm Thick Made Of Fiber Glass Sheet Double Ply Fixed On Angle Iron For Truss Roofing 1-1/2"X1-1/2"X1/4" Welded With 9"X9"X1/4" Thick M.S Plate At Top And Bottom Of G.I Pipe 4" Dia And 11' High Embedded In Pcc 1:2:4 1-1/2X1-1/2X1-1/2 At Bottom I/C Rubber Packing & Silicone Filling, Painting 3 Coats Complete In All Respect As Approved And Directed By The Engineer Incharge.	4368	P.Sft	650	2839200				0	0	2839200	
				Total: -	**2839200**			**Total: -**	**0**	**0**	**2839200**	
			Add 3% Contingency: -		85176		Add 3% Contingency:		0	0	85176	
				Total: -	**2924376**			**Total: -**	**0**	**0**	**2924376**	
				Say: -	**2924400**			**Say: -**	**0**	**0**	**2924400**	
8	**Sewerage Sysytem**											
1	Construction of Manholes (5.5'x5.5' Size)	100	Each	51788	5178800	80	Each	35564	2845100	0	2333700	
2	Sewer Line 18" Dia.	3000	P.Rft	1535	4605000	3500	P.Rft	2212	7743000	3138000	0	
3	Construction of Septic Tank 36'x12'	2	Each	667400	1334800	2	Each	947768	1895535	560735	0	

Sr. No.	Description	As per Approved Rough cost Estimate (1st July to 31st December 2021)				As per Amended Rough cost Estimate (1st july to 31 December 2022)				Excess	Saving	Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13
				Total: -	11118600			Total: -	12483635			
9	Provision of Street Lights	1	P.Job	4084364	4084364				757400	0	4084364	
10	Fire Alaram System					1	P.Job	~~7684668~~	~~7684668~~	~~7684668~~	0	
11	Provision of ATS system and Panel Board					1	P.Job	~~57875916~~	5214065 ~~57875916~~	~~57875916~~	0	
12	Electric Panel Room (25*25)					625	Psft	3943	2464375	2464375	0	
	G.Total: -				116745937			Total: -	~~164761298~~	~~48015361~~	0	
	Add 1% for tree plantation charges				1167459				-	0	1167459	
	Add 5% PST charges				5837297				~~8238065~~	2400768	0	
	Add Cost for WAPDA Transformer payable to IESCO (Increase the load capacity of trasnsformer				2000000				~~3500000~~	1500000	0	
	Add Cost for Sui Gas payable to SNGPL				1000000					0	1000000	
	Grand Total:-				126750693				~~176499363~~	~~49748670~~	0	
	Say:-				126750000				~~176499400~~	~~49749400~~	0	
	Rs.in Million				126.750				~~176.499~~	~~49.749~~	0	

Sub Divisional Officer,
Buildings Sub Division
Attock

~~Executive~~ Engineer
Buildings Division
Attock

ROUGH COST ESTIMATE "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK FOR THE YEAR 2022-23".

Sr. No.	Description	Qty	Unit	Rate	Amount
1	Dismantling glazed or encaustic tiles, etc	~~35293~~	~~%cft~~	~~2336.85~~	~~824392~~
2	Dismantling cement concrete 1:2:4 plain.	4424	%cft	11174.6	494364
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4	4424	%sft	36753.3	1625966
4	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles 600mmx 600 mm	35408	Psft	340.35	12051113
5	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge Full body Glazed Tile 600mm x600 mm	~~24079~~ 22469	P.Sft	340.35	~~8195288~~ 7647324
6	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1487.00 4739.00	P.Sft	~~239.8~~ 292.55	~~366583~~ 1386394
7	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	~~6104.00~~ 1487	P.Sft	~~292.55~~ 239.80	1785725 356583
8	Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge Bevelled edges & flange 21.5 mm 600 mmX 600 mm	2282.00	P.Sft	~~431~~ 400	~~983542~~ 912800
9	Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge Cementitious Urethane, Epoxy, Polyurethane, Urethane	2282.00	P.Sft	516	1177512
10	Providing and fixing multi layer Aluminum Composite Panel Cladding comprising of PVC/PE coating over high strength Anti-rust Aluminum sheet of specified thickness over Polymeric membrane over LDPE/FR high fire retrdent core made of Alpolic/Areca i/c the cost of base frame of l-1/2"X1-1/2" GI angle Iron at specified intervals filling the groove with Silicon and Hardwares as approved and directed by the Engineer Incharge. (i) 3 mm thick (Interior)	4498.00	P.Sft	1788	8042424
11	Removing door with chowkat.	52	Each	438	22776
12	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in stvle and rails under	1355	P. Sft	678.55	919435

30	Providing and fixing 2"X2" Stainless Steel 14 SWG Corner Guard angle with bevelled corner and 0.8 mm bond at edges duly pasted with premium grade, reinforcing glue strips with excellent hold(double sided Tape) as approved and directed by the Engineer Incharge.	1200	P. Sft	840.00	788000
31	Cement pointing 1:2 flush on floor	10630	Sqft	2597.0	27777.6
32	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) Nikavi/ waste pipe make of Dadex /Popular/Geta or equivalent, plain/Socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge Type (SDR 32.5/SN-8) 4"(110 mm)	750	PRft	440.85	330488
33	Providing and installing P.V.C. pipes of B.S.S. Class 'B' working pressure 4" dia (100 mm)	50	PRft	843.85	21478
34	Kitchen on roof 2'X2'x3" (600 x 600 x 150 mm)	50	Each	835	41750
35	Providing and laying Proplished Granits of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed complete in all respect as approved and directed by the Engineer Incharge	824	Psft	1308.85	818722
36	Providing and fixing high quality LED SMD Panel Light 2 ft×2 ft of specified wattage and Luminous flux with Polystyrene bowl/pneumatic cover made of Philips as approved and directed by the Engineer Incharge Lumens: 110Lumn/Watt (i) 36 watt	2310 1000	P. Sft	1020.00	2356200 1020000
37	SIZE Of SMD Light (16 Watt) Of Approved Manufacturer Complete In All Respect As Approved & Directed By The Engineer Incharge.	350	Each	1600	6300
38	Providing and fixing 3" d iop cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung on painted brackets of MS angle iron of 1"x1"x1/8" and MS patti of 1-1/2"x3/16" size @ 6-ft C/C, hanging c/c the cost of hardwares as approved and directed by the Engineer Incharge.18SWG 4"x3"	500	PRft	335.35	167675
39	...do...6"x3"	100	PRft	402.7	40270
40	Cement plast r 1:3 upto 20' (6.00 mtrl) height 1/2" (13 mm) thick c/c Removing cement or lime plaster.	3321	Sqft	2023.6	1025856
41	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects.On interior surface (without mastic strip)	165	R-Rft	147.3	24305
42	Providing and fixing 10" (250 mm) wide 1/4" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects ie. Providing and fixing 6 in (150 mm). wide G.I. sheet 18SWG stopper to expansion joint	820	PRft	2841.25	1402250
43	Construction of Reception Counter Brick Masonry Structure 3.5' height from ground level consisting of marble granite and kitchen cabinet 22" deep with brick Complete in all Respect.	145	Psft	8170	1184650
44	Electric Installation	24903	Psft	11.22	279396.66
II	Public Health	24000	Psft	1.17	28080.000
	Total:-				7254.9252

	D/d cost of Old Material				
1	Old Doors with Chowkat	52	Each	1500	78000
2	Old Windows	179	Each	1000	179000
4	Electric cables (unservicable)	1	P.Job	30000	30000
				Total (B): -	287000
				Net Total (A-B): -	~~90998227~~ 75982620
	for Rs: 63100625/-			Add 3% Contingency: -	~~2729947~~ 1893918
				Total: -	~~93728174~~ 77875638
				Say: -	~~93728000~~ ~~77875000~~ 54941169/-

Sub Divisional Officer
Building Sub Division
Attock

Executive Engineer
Buildings Division,
Attock

ROUGH COST ESTIMATE "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK FOR THE YEAR 2022-23".

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B	H	Qty.	
1	Dismantling glazed or encaustic tiles, etc						
	GROUND FLOOR (OPD)						
	UROLOGY OPD	1	13.75	16		220	Sft
	WELL FARE	1	11.75	16		188	Sft
	BLOOD BANK	1	11.75	16		188	Sft
	BLOOD BAN	1	11.75	16		188	Sft
	BLOOD BANK	1	11.75	16		188	Sft
	Room	1	11.75	16		188	Sft
	POLICE CH	1	13.75	9.75		134	Sft
	Room	1	15	16		240	Sft
	Room	1	20	16		320	Sft
	Bath	1	3	4		12	Sft
		1	3	4		12	Sft
		1	4	5		20	Sft
		1	9.75	10		98	Sft
		1	5	5		25	Sft
	WELL FARE	1	15.25	12		183	Sft
		1	15	15		225	Sft
	X-RAY ROOM	1	14.75	7.25		107	Sft
	X-RAY ROOM	1	9	5.33		48	Sft
	X-RAY ROOM	1	19.75	12		237	Sft
	X-RAY ROOM	1	19.75	12		237	Sft
	DARK ROOM	1	8	9.25		74	Sft
	OFFICE	1	7.75	0.25		2	Sft
	ENT OPD	1	13.5	10.75		145	Sft
	UROLOGY O[PD	1	13.5	12.5		169	Sft
	BATH	1	8	6		48	Sft
	CORRI	1	100	8		800	Sft
	WAITING ROOM	1	8	10		80	Sft
	GUEST ROOM	1	8	16		128	Sft
	KITCHEN	1	7	7.75		54	Sft
	MS OFFICE 1	1	18	12		216	Sft
	A.M.S OFFICE	1	18	12		216	Sft
	BATH	1	6	8		48	Sft
	BATH	1	6	8		48	Sft
		1	10	10		100	Sft
	WAITING ROOM	1	15	18		270	Sft
	STORE	1	12.5	18.5		231	Sft
	ROOM	1	18	18		324	Sft
	CLERK OFFICE	1	12.5	18.5		231	Sft
	OFFICE	1	13.25	18.5		245	Sft
	MQIN OFFICE	1	8	8		64	Sft
		1	16	18		288	Sft
	CORRI	1	40	8		320	Sft
		1	70	8		560	Sft
	CORI	1	100	8		800	Sft
	WARDS						
	STORE	1	8	6		48	Sft
	ROOM	1	20	15		300	Sft
		1	8	8		64	Sft
	STORE	1	8	15		120	Sft
	NURSING ROOM	1	8	15		120	Sft
	MALE WARD	2	22	48		2112	Sft
	ROOM	1	8.5	9.5		81	Sft
	REGESTERATION	1	8	15		120	Sft
						152	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B	H	Qty.	
	TOILET	1	3.75	4		15	Sft
	TOILET	1	3.75	4		15	Sft
	TOILET	1	3.75	4		15	Sft
	N1-H1 ROOM	1	14	13.75		193	Sft
	N1-H1 ROOM	1	12	13.75		165	Sft
		1	18	15		270	Sft
	CORRI	1	100	8		800	Sft
		1	50	8		400	Sft
		1	50	8		400	Sft
		1	70	8		560	Sft
		1	80	8		640	Sft
	STORE	1	9.25	20		185	Sft
	STORE	1	9.25	20		185	Sft
	STORE	1	9.25	9.25		86	Sft
	STORE	1	9.25	9.25		86	Sft
	STORE	1	9.25	9.25		86	Sft
	S.ROOM	1	11.5	29.5		339	Sft
	ROOM	1	20	12		240	Sft
	GAS CYLINDER ROOM	1	20	28		560	Sft
	ROOM	1	20	20		400	Sft
		1	80	8		640	Sft
	STORE	1	10	12		120	Sft
	FEMALE WARD	2	22	48		2112	Sft
	NURSING ROOM	1	8	15		120	Sft
	ROOM	1	8.5	9		77	Sft
	PATIENT ROOM	1	14	22.5		315	Sft
	PATIENT ROOM	1	14	15		210	Sft
	PATIENT ROOM	1	12	15		180	Sft
	Bath	4	5	4		80	Sft
	ROOM	1	12	4.25		51	Sft
	S.H	3	5	3.5		53	Sft
	COR	1	100	8		800	Sft
		2	50	8		800	Sft
	E.C.G ROOM	1	12	16.625		200	Sft
	BATH	4	6	5		120	Sft
	WASHING	1	22	12		264	Sft
	STORE	1	23	24.75		569	Sft
	WAITING AREA	1	16.75	12		201	Sft
	DR OFFICE	1	16.5	12		198	Sft
	Bath	1	8.25	8		66	Sft
	OPD ROOM	1	24	16.25		390	Sft
		1	24	16.25		390	Sft
	BATH	1	8.25	7.85		65	Sft
	MINOR OT	1	16.3	14		228	Sft
	LAB	1	11.887	16.5		196	Sft
		1	11.887	16.5		196	Sft
		1	11.887	16.5		196	Sft
	DR OFFICE	2	8	8		128	Sft
	LAB	1	16.5	16.5		272	Sft
	DISABLED TOILET	1	9.5	7.625		72	Sft
	GURNEY AREA	1	19.5	15.25		297	Sft
	STAIR HALL	1	15	10		150	Sft
	C/T SCAN ROOM	1	25.25	20.25		511	Sft
	OPERATING ROOM	1	7	9.625		67	Sft
	ups	1	5.25	4		21	Sft
	ROOM	1	20	18		360	Sft
		1	17	18		306	Sft
	RECORD ROOM	1	5.25	5.25		28	Sft
	CASH COUNTER	1	10	10		100	Sft
	specialized care	1	21.25	18.33		390	Sft
	GURNEY AREA	1	19.5	15.25		297	Sft
		1	20	8		720	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B		H	Qty.	
	Lav. Block	1	12	12			144	Sft
	Wash Room	1	10.5	12			126	Sft
	Burn Ward	1	23.875	21			501	Sft
	Waiting Room	1	22	19.25			424	Sft
	C.C.U.	2	20	20			800	Sft
	M.O. Room	1	15	12			180	Sft
	Paintry	1	15	8			120	Sft
	ICU	1	20	20.375			408	Sft
	Nursing Station	1	7	8.75			61	Sft
		1	8.75	7.25			63	Sft
	NEO Natal Nursry	1	16	20			320	Sft
	Corridor	1	42.25	8			338	Sft
		1	49.875	8			399	Sft
		1	40	14			560	Sft
	Lav Block	2	12	16			384	Sft
						Total	**35293**	**Sft**
2	Dismantling cement concrete 1:2:4 plain.							
	UROLOGY OPD	1	13.75	16	0.125		28	Sft
	WELL FARE	1	11.75	16	0.125		24	Sft
	BLOOD BANK	1	11.75	16	0.125		24	Sft
	BLOOD BAN	1	11.75	16	0.125		24	Sft
	BLOOD BANK	1	11.75	16	0.125		24	Sft
	Room	1	11.75	16	0.125		24	Sft
	POLICE CH	1	13.75	9.75	0.125		17	Sft
	Room	1	15	16	0.125		30	Sft
	Room	1	20	16	0.125		40	Sft
	Bath	1	3	4	0.125		2	Sft
		1	3	4	0.125		2	Sft
		1	4	5	0.125		3	Sft
		1	9.75	10	0.125		12	Sft
		1	5	5	0.125		3	Sft
	WELL FARE	1	15.25	12	0.125		23	Sft
		1	15	15	0.125		28	Sft
	X-RAY ROOM	1	14.75	7.25	0.125		13	Sft
	X-RAY ROOM	1	9	5.33	0.125		6	Sft
	X-RAY ROOM	1	19.75	12	0.125		30	Sft
	X-RAY ROOM	1	19.75	12	0.125		30	Sft
	DARK ROOM	1	8	9.25	0.125		9	Sft
	OFFICE	1	7.75	0.25	0.125		0	Sft
	ENT OPD	1	13.5	10.75	0.125		18	Sft
	UROLOGY O[PD	1	13.5	12.5	0.125		21	Sft
	BATH	1	8	6	0.125		6	Sft
	CORRI	1	100	8	0.125		100	Sft
	WAITING ROOM	1	8	10	0.125		10	Sft
	GUEST ROOM	1	8	16	0.125		16	Sft
	KITCHEN	1	7	7.75	0.125		7	Sft
	MS OFFICE 1	1	18	12	0.125		27	Sft
	A.M.S OFFICE	1	18	12	0.125		27	Sft
	BATH	1	6	8	0.125		6	Sft
	BATH	1	6	8	0.125		6	Sft
		1	10	10	0.125		13	Sft
	WAITING ROOM	1	15	18	0.125		34	Sft
	STORE	1	12.5	18.5	0.125		29	Sft
	ROOM	1	18	18	0.125		41	Sft
	CLERK OFFICE	1	12.5	18.5	0.125		29	Sft
	OFFICE	1	13.25	18.5	0.125		31	Sft
	MQIN OFFICE	1	8	8	0.125		8	Sft
		1	16	18	0.125		36	Sft
	CORRI	1	40	8	0.125		40	Sft
		1	70	8	0.125		70	Sft
	CORI	1	100	8	0.125		100	Sft
	WARDS							
	STORE	1	8	6	0.125		6	Sft
	ROOM	1	20	15	0.125		38	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS				Qty.	
			L	B		H		
	MALE WARD	2	22	48	0.125		264	Sft
	ROOM	1	8.5	9.5	0.125		10	Sft
	REGESTERATION	1	8	15	0.125		15	Sft
	STORE	1	19	8	0.125		19	Sft
	PATIENT ROOM	1	9.75	12	0.125		15	Sft
	MAIN REGE	1	9.75	12	0.125		15	Sft
	TOILET	1	3.75	4	0.125		2	Sft
	TOILET	1	3.75	4	0.125		2	Sft
	TOILET	1	3.75	4	0.125		2	Sft
	TOILET	1	3.75	4	0.125		2	Sft
	N1-H1 ROOM	1	14	13.75	0.125		24	Sft
	N1-H1 ROOM	1	12	13.75	0.125		21	Sft
		1	18	15	0.125		34	Sft
	CORRI	1	100	8	0.125		100	Sft
		1	50	8	0.125		50	Sft
		1	50	8	0.125		50	Sft
		1	70	8	0.125		70	Sft
		1	80	8	0.125		80	Sft
	STORE	1	9.25	20	0.125		23	Sft
	STORE	1	9.25	20	0.125		23	Sft
	STORE	1	9.25	9.25	0.125		11	Sft
	STORE	1	9.25	9.25	0.125		11	Sft
	STORE	1	9.25	9.25	0.125		11	Sft
	S.ROOM	1	11.5	29.5	0.125		42	Sft
	ROOM	1	20	12	0.125		30	Sft
	GAS CYLINDER ROOM	1	20	28	0.125		70	Sft
	ROOM	1	20	20	0.125		50	Sft
		1	80	8	0.125		80	Sft
	STORE	1	10	12	0.125		15	Sft
	FEMALE WARD	2	22	48	0.125		264	Sft
	NURSING ROOM	1	8	15	0.125		15	Sft
	ROOM	1	8.5	9	0.125		10	Sft
	PATIENT ROOM	1	14	22.5	0.125		39	Sft
	PATIENT ROOM	1	14	15	0.125		26	Sft
	PATIENT ROOM	1	12	15	0.125		23	Sft
	Bath	4	5	4	0.125		10	Sft
	ROOM	1	12	4.25	0.125		6	Sft
	S.H	3	5	3.5	0.125		7	Sft
	COR	1	100	8	0.125		100	Sft
		2	50	8	0.125		100	Sft
	E.C.G ROOM	1	12	16.625	0.125		25	Sft
	BATH	4	6	5	0.125		15	Sft
	WASHING	1	22	12	0.125		33	Sft
	STORE	1	23	24.75	0.125		71	Sft
	WAITING AREA	1	16.75	12	0.125		25	Sft
	DR OFFICE	1	16.5	12	0.125		25	Sft
	Bath	1	8.25	8	0.125		8	Sft
	OPD ROOM	1	24	16.25	0.125		49	Sft
		1	24	16.25	0.125		49	Sft
	BATH	1	8.25	7.85	0.125		8	Sft
	MINOR OT	1	16.3	14	0.125		29	Sft
	LAB	1	11.887	16.5	0.125		25	Sft
		1	11.887	16.5	0.125		25	Sft
		1	11.887	16.5	0.125		25	Sft
	DR OFFICE	2	8	8	0.125		16	Sft
	LAB	1	16.5	16.5	0.125		34	Sft
	DISABLED TOILET	1	9.5	7.625	0.125		9	Sft
	GURNEY AREA	1	19.5	15.25	0.125		37	Sft
	STAIR HALL	1	15	10	0.125		19	Sft
	C/T SCAN ROOM	1	25.25	20.25	0.125		64	Sft
	OPERATING ROOM	1	7	9.625	0.125		8	Sft
		1	5.25	4	0.125		3	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B		H	Qty.	
	CASH COUNTER	1	10	10	0.125		13	Sft
	specialized care	1	21.25	18.33	0.125		49	Sft
	GURNEY AREA	1	19.5	15.25	0.125		37	Sft
	CORRI	1	90	8	0.125		90	Sft
	CCU /BURN UNIT F.F				0.125		0	Sft
	Lady Doctors / Nurses Change	1	12	16	0.125		24	Sft
	Stair Hall	1	12	16	0.125		24	Sft
	Lav. Block	1	12	12	0.125		18	Sft
	Wash Room	1	10.5	12	0.125		16	Sft
	Burn Ward	1	23.875	21	0.125		63	Sft
	Waiting Room	1	22	19.25	0.125		53	Sft
	C.C.U.	2	20	20	0.125		100	Sft
	M.O. Room	1	15	12	0.125		23	Sft
	Paintry	1	15	8	0.125		15	Sft
	ICU	1	20	20.375	0.125		51	Sft
	Nursing Station	1	7	8.75	0.125		8	Sft
		1	8.75	7.25	0.125		8	Sft
	NEO Natal Nursry	1	16	20	0.125		40	Sft
	Corridor	1	42.25	8	0.125		42	Sft
		1	49.875	8	0.125		50	Sft
		1	40	14	0.125		70	Sft
	Lav Block	2	12	16	0.125		48	Sft
						Total	**4424**	**Sft**
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4							
	Same Qty as Item No. 2	4424					**4424**	Cft
						Total: -	**4424**	**Cft**
4	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles 600mmx 600 mm							
	GROUND FLOOR (OPD)							
	UROLOGY OPD	1	13.75	16			220	Sft
	WELL FARE	1	11.75	16			188	Sft
	BLOOD BANK	1	11.75	16			188	Sft
	BLOOD BAN	1	11.75	16			188	Sft
	BLOOD BANK	1	11.75	16			188	Sft
	Room	1	11.75	16			188	Sft
	POLICE CH	1	13.75	9.75			134	Sft
	Room	1	15	16			240	Sft
	Room	1	20	16			320	Sft
	WELL FARE	1	15.25	12			183	Sft
		1	15	15			225	Sft
	X-RAY ROOM	1	14.75	7.25			107	Sft
	X-RAY ROOM	1	9	5.33			48	Sft
	X-RAY ROOM	1	19.75	12			237	Sft
	X-RAY ROOM	1	19.75	12			237	Sft
	DARK ROOM	1	8	9.25			74	Sft
	OFFICE	1	7.75	0.25			2	Sft
	ENT OPD	1	13.5	10.75			145	Sft
	UROLOGY O[PD	1	13.5	12.5			169	Sft
	CORRI	1	100	8			800	Sft
	WAITING ROOM	1	8	10			80	Sft
	GUEST ROOM	1	8	16			128	Sft
	KITCHEN	1	7	7.75			54	Sft
	MS OFFICE 1	1	18	12			216	Sft
	A.M.S OFFICE	1	18	12			216	Sft
	WAITING ROOM	1	15	18			270	Sft
	STORE	1	12.5	18.5			231	Sft
	ROOM	1	18	18			324	Sft
	CLERK OFFICE	1	12.5	18.5			231	Sft
		1	20	18			360	Sft
	OFFICE	1	13.25	18.5			245	Sft
	MQIN OFFICE	1	8	8			64	Sft
		1	16	18			288	Sft

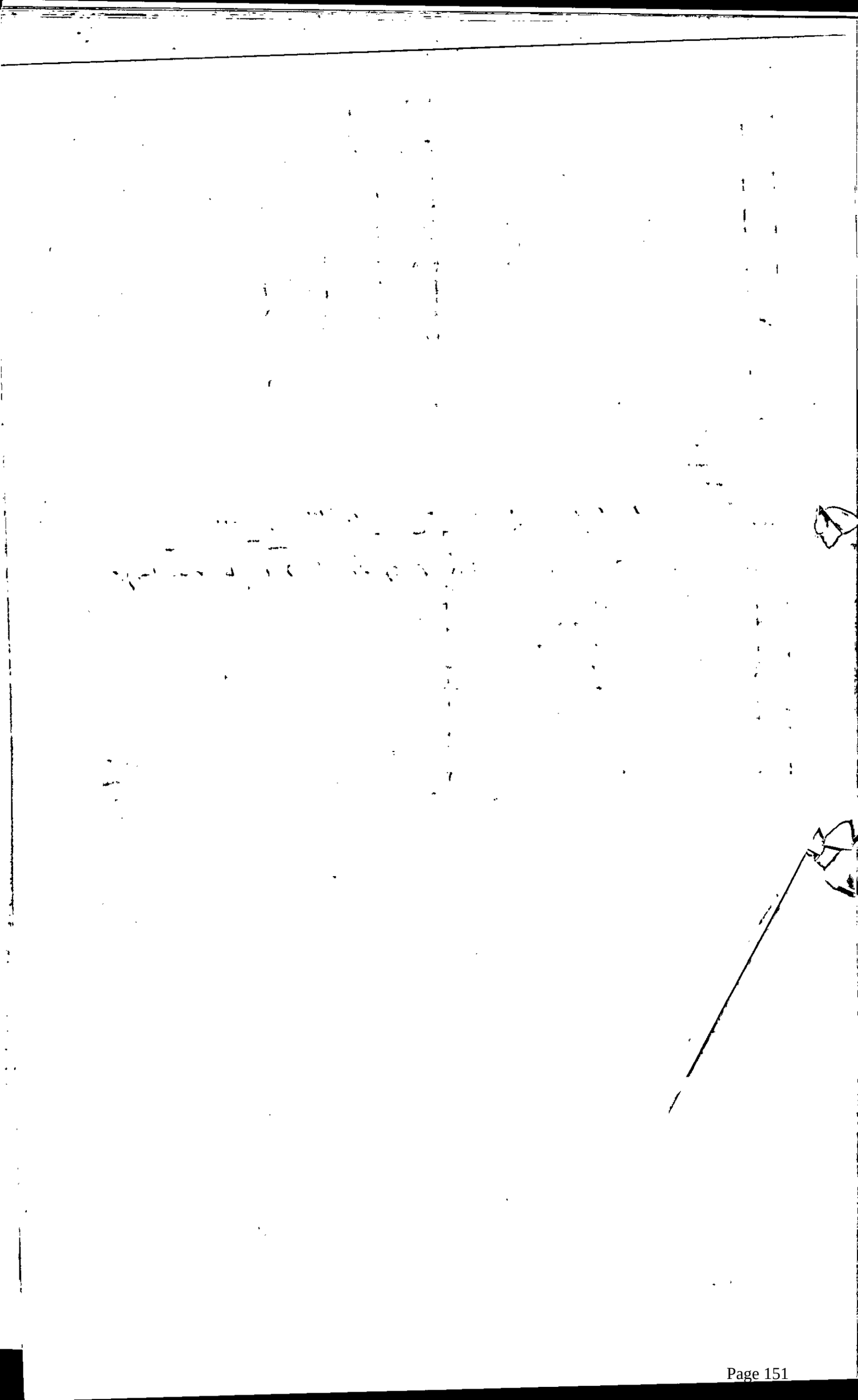
Sr. No.	ITEM OF WORK	No	MEAUSERMENTS			Qty.	
			L	B	H		
	WARDS						
	STORE	1	8	6		48	Sft
	ROOM	1	20	15		300	Sft
		1	8	8		64	Sft
	STORE	1	8	15		120	Sft
	NURSING ROOM	1	8	15		120	Sft
	MALE WARD	2	22	48		2112	Sft
	ROOM	1	8.5	9.5		81	Sft
	REGESTERATION	1	8	15		120	Sft
	STORE	1	19	8		152	Sft
	PATIENT ROOM	1	9.75	12		117	Sft
	MAIN REGE	1	9.75	12		117	Sft
	N1-H1 ROOM	1	14	13.75		193	Sft
	N1-H1 ROOM	1	12	13.75		165	Sft
		1	18	15		270	Sft
	CORRI	1	100	8		800	Sft
		1	50	8		400	Sft
		1	50	8		400	Sft
		1	70	8		560	Sft
		1	80	8		640	Sft
	STORE	1	9.25	20		185	Sft
	STORE	1	9.25	20		185	Sft
	STORE	1	9.25	9.25		86	Sft
	STORE	1	9.25	9.25		86	Sft
	STORE	1	9.25	9.25		86	Sft
	S.ROOM	1	11.5	29.5		339	Sft
	ROOM	1	20	12		240	Sft
	GAS CYLINDER ROOM	1	20	28		560	Sft
	ROOM	1	20	20		400	Sft
		1	80	8		640	Sft
	STORE	1	10	12		120	Sft
	FEMALE WARD	2	22	48		2112	Sft
	NURSING ROOM	1	8	15		120	Sft
	ROOM	1	8.5	9		77	Sft
	PATIENT ROOM	1	14	22.5		315	Sft
	PATIENT ROOM	1	14	15		210	Sft
	PATIENT ROOM	1	12	15		180	Sft
	ROOM	1	12	4.25		51	Sft
	S.H	3	5	3.5		53	Sft
	COR	1	100	8		800	Sft
		2	50	8		800	Sft
	E.C.G ROOM	1	12	16.625		200	Sft
	WASHING	1	22	12		264	Sft
	STORE	1	23	24.75		569	Sft
	WAITING AREA	1	16.75	12		201	Sft
	DR OFFICE	1	16.5	12		198	Sft
	OPD ROOM	1	24	16.25		390	Sft
		1	24	16.25		390	Sft
	BATH	1	8.25	7.85		65	Sft
	MINOR OT	1	16.3	14		228	Sft
	LAB	1	11.887	16.5		196	Sft
		1	11.887	16.5		196	Sft
		1	11.887	16.5		196	Sft
	DR OFFICE	2	8	8		128	Sft
	LAB	1	16.5	16.5		272	Sft
	DISABLED TOILET	1	9.5	7.625		72	Sft
	GURNEY AREA	1	19.5	15.25		297	Sft
	STAIR HALL	1	15	10		150	Sft
	C/T SCAN ROOM	1	25.25	20.25		511	Sft
	OPERATING ROOM	1	7	9.625		67	Sft
	ups	1	5.25	4		21	Sft
						360	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B		H	Qty.	
	specialized care	1	21.25	18.33			390	Sft
	GURNEY AREA	1	19.5	15.25			297	Sft
	CORRI	1	90	8			720	Sft
	CCU /BURN UNIT F.F							
	Lady Doctors / Nurses Change	1	12	16				
	Stair Hall	1	12	16			192	Sft
	Lav. Block	1	12	12			144	Sft
	Wash Room	1	10.5	12			126	Sft
	Burn Ward	1	23.875	21			501	Sft
	Waiting Room	1	22	19.25			424	Sft
	C.C.U.	2	20	20			800	Sft
	M.O. Room	1	15	12			180	Sft
	Paintry	1	15	8			120	Sft
	ICU	1	20	20.375			408	Sft
	Nursing Station	1	7	8.75			61	Sft
		1	8.75	7.25			63	Sft
	NEO Natal Nursry	1	16	20			320	Sft
		1	20	18			360	Sft
		1	18	18			324	Sft
	Corridor	1	42.25	8			338	Sft
		1	49.875	8			399	Sft
		1	40	14			560	Sft
	Lav Block	2	12	16			384	Sft
						Total	**35408**	**Sft**
5	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge Full body Glazed Tile 600mm x600 mm							
	GROUND FLOOR (OPD)							
	UROLOGY OPD	2	(13.8+	16)	0.50		30	Sft
	WELL FARE	2	(11.8+	16)	0.50		28	Sft
	BLOOD BANK	2	(11.8+	16)	0.50		28	Sft
	BLOOD BAN	2	(11.8+	16)	0.50		28	Sft
	BLOOD BANK	2	(11.8+	16)	0.50		28	Sft
	Room	2	(11.8+	16)	0.50		28	Sft
	POLICE CH	2	(13.8+	9.75)	0.50		24	Sft
	Room	2	(15+	16)	0.50		31	Sft
	Room	2	(20+	16)	0.50		36	Sft
	WELL FARE	2	(15.3+	12)	0.50		27	Sft
		2	(15+	15)	0.50		30	Sft
	X-RAY ROOM	2	(14.8+	7.25)	0.50		22	Sft
	X-RAY ROOM	2	(9+	5.33)	0.50		14	Sft
	X-RAY ROOM	2	(19.8+	12)	0.50		32	Sft
	X-RAY ROOM	2	(19.8+	12)	0.50		32	Sft
	DARK ROOM	2	(8+	9.25)	0.50		17	Sft
	OFFICE	2	(7.75+	0.25)	0.50		8	Sft
	ENT OPD	2	(13.5+	10.75)	0.50		24	Sft
	UROLOGY O[PD	2	(13.5+	12.5)	0.50		26	Sft
	CORRI	2	100	6			1200	Sft
	WAITING ROOM	2	(8+	14)	4.00		176	Sft
	GUEST ROOM	2	(8+	16)	0.50		24	Sft
	KITCHEN	2	(7+	7.75)	0.50		15	Sft
	MS OFFICE 1	2	(18+	12)	0.50		30	Sft
	A.M.S OFFICE	2	(18+	12)	0.50		30	Sft
	WAITING ROOM	2	(15+	18)	6.00		396	Sft
	STORE	2	(12.5+	18.5)	0.50		31	Sft
	ROOM	2	(18+	18)	0.50		36	Sft
	CLERK OFFICE	2	(12.5+	18.5)	0.50		31	Sft
	OFFICE	2	(13.3+	18.5)	0.50		32	Sft
	MQIN OFFICE	2	(8+	8)	0.50		16	Sft
		2	(16+	18)	4.00		272	Sft
	CORRI	2	40	6			480	Sft
		2	70	6			840	Sft
	CORI	2	100	6			1200	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS				Qty.	
			L	B		H		
	STORE	2	(8+	15)	0.50		23	Sft
	NURSING ROOM	2	(8+	15)	0.50		23	Sft
	MALE WARD	4	(22+	48)	0.50		140	Sft
	ROOM	2	(8.5+	9.5)	0.50		18	Sft
	REGESTERATION	2	(8+	15)	0.50		23	Sft
	STORE	2	(19+	8)	0.50		27	Sft
	PATIENT ROOM	2	(9.75+	12)	0.50		22	Sft
	MAIN REGE	2	(9.75+	12)	0.50		22	Sft
	N1-H1 ROOM	2	(14+	13.75)	0.50		28	Sft
	N1-H1 ROOM	2	(12+	13.75)	0.50		26	Sft
		2	(18+	15)	0.50		33	Sft
	CORRI	2	100	6			1200	Sft
		2	50	6			600	Sft
		2	50	6			600	Sft
		2	70	6			840	Sft
		2	80	6			960	Sft
	STORE	2	(9.25+	20)	0.50		29	Sft
	STORE	2	(9.25+	20)	0.50		29	Sft
	STORE	2	(9.25+	9.25)	0.50		19	Sft
	STORE	2	(9.25+	9.25)	6.00		222	Sft
	STORE	2	(9.25+	9.25)	0.50		19	Sft
	S.ROOM	2	(11.5+	29.5)	0.50		41	Sft
	ROOM	2	(20+	12)	0.50		32	Sft
	GAS CYLINDER ROOM	2	(20+	28)	0.50		48	Sft
	ROOM	2	(20+	20)	6.00		480	Sft
		2	80	6			960	Sft
	STORE	2	(10+	12)	0.50		22	Sft
	FEMALE WARD	2	(22+	48)	0.50		70	Sft
	NURSING ROOM	2	(8+	15)	0.50		23	Sft
	ROOM	2	(8.5+	9)	0.50		18	Sft
	PATIENT ROOM	2	(14+	22.5)	0.50		37	Sft
	PATIENT ROOM	2	(14+	15)	0.50		29	Sft
	PATIENT ROOM	2	(12+	15)	0.50		27	Sft
	ROOM	2	(12+	4.25)	0.50		16	Sft
	S.H	6	(5+	3.5)	0.50		26	Sft
	COR	2	100	6			1200	Sft
		4	50	6			1200	Sft
	E.C.G ROOM	2	(12+	16.625)	0.50		29	Sft
	WASHING	2	(22+	12)	0.50		22	Sft
	STORE	2	(23+	24.75)	0.50		23	Sft
	WAITING AREA	2	(16.8+	12)	0.50		17	Sft
	DR OFFICE	2	(16.5+	12)	0.50		17	Sft
	OPD ROOM	2	(24+	16.25)	0.50		24	
		2	(24+	16.25)	0.50		40	Sft
	BATH	2	(8.25+	7.85)	0.50		16	Sft
	MINOR OT	2	(16.3+	14)	0.50		30	Sft
	LAB	2	(11.9+	16.5)	0.50		28	Sft
		2	(11.9+	16.5)	0.50		28	Sft
		2	(11.9+	16.5)	0.50		28	Sft
	DR OFFICE	4	(8+	8)	0.50		32	Sft
	LAB	2	(16.5+	16.5)	0.50		33	Sft
	DISABLED TOILET	2	(9.5+	7.625)	0.50		17	Sft
	GURNEY AREA	2	(19.5+	15.25)	0.50		35	Sft
	STAIR HALL	2	(15+	10)	0.50		25	Sft
	C/T SCAN ROOM	2	(25.3+	20.25)	0.50		46	Sft
	OPERATING ROOM	2	(7+	9.625)	0.50		17	Sft
	ups	2	(5.25+	4)	0.50		9	Sft
	ROOM	2	(20+	18)	0.50		38	Sft
		2	(17+	18)	0.50		35	Sft
	RECORD ROOM	2	(5.25+	5.25)	0.50		11	Sft
	CASH COUNTER	2	(10+	10)	0.50		40	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B		H	Qty.	
	Lady Doctors / Nurses Change	2	(12+	16)	0.5		28	Sft
	Stair Hall	2	(12+	16)	0.5		28	Sft
	Lav. Block	2	(12+	12)	0.5		24	Sft
	Wash Room	2	(10.5+	12)	0.5		23	Sft
	Burn Ward	2	(23.9+	21)	0.5		45	Sft
	Waiting Room	2	(22+	19.25)	0.5		41	Sft
	C.C.U.	2	(20+	20)	0.5		40	Sft
	M.O. Room	2	(15+	12)	0.5		27	Sft
	Paintry	2	(15+	8)	0.5		23	Sft
	ICU	2	(20+	20.375)	0.5		40	Sft
	Nursing Station	2	(7+	8.75)	0.5		16	Sft
		2	(8.75+	7.25)	0.5		16	Sft
	NEO Natal Nursry	2	(16+	20)	0.5		36	Sft
	Corridor	2	42.25		4		338	Sft
		2	49.875		4		399	Sft
		2	40		4		320	Sft
	Lav Block	4	(12+	16)	0.5		56	Sft
		4	(12.5+	15.5)	0.5		56	Sft
	WAITING ROOM	4	(19.5+	15.5)	4		560	Sft
	stair case	4	(18+	16)	4		544	Sft
	CONFERENCE HALL	4	(42+	15.5)	4		920	Sft
	GALLERY	4	120		4		1920	Sft
	GALLERY	4	120		4		1920	Sft
	Dd open. Floor 115		3.50		4	Total (-)	24079	Sft
6	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture 1610 skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36" 22469							
	Bath Floor	2	3	4			24	Sft
		2	3	4			24	Sft
		2	4	5			40	Sft
		1	9.75	10			98	Sft
		2	6	6			72	
		1	5	5			25	Sft
	BATH	1	8	6			48	Sft
	BATH	1	6	8			48	Sft
	BATH	1	6	8			48	Sft
		2	8	8			128	
		1	10	10			100	Sft
	TOILET	2	3.75	4			30	Sft
	TOILET	2	3.75	4			30	Sft
	TOILET	2	3.75	4			30	Sft
	TOILET	1	3.75	4			15	Sft
		3	6	6			108	
	Bath	4	5	4			80	Sft
	BATH	4	6	5			120	Sft
	Bath	2	8.25	8			132	Sft
		4	6	6			144	Sft
	B.R	2	7.5	9.5			143	Sft
	Dado					Total	1487	Sft
7	Providing and laying superb quality Ceramic tile ~~floors~~ of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"							
	Bath Dado	4	(3+	4)	7.00		112	Sft
		4	(3+	4)	7.00		112	Sft
		4	(4+	5)	7.00		144	Sft
		2	(9.75+	10)	7.00		316	Sft
		4	(6+	6)	7.00		316	Sft
		2	(5+	5)	7.00		160	Sft
	BATH	2	(8+	6)	7.00		224	Sft

Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B	H		Qty.	
	TOILET	4	(3.75+	4)	7.00		124	Sft
	TOILET	4	(3.75+	4)	7.00		124	Sft
	TOILET	4	(3.75+	4)	7.00		124	Sft
	TOILET	2	(3.75+	4)	7.00		124	Sft
	Bath	8	(5+	4)	7.00		576	Sft
	BATH	8	(6+	5)	7.00		704	Sft
	Bath	4	(8.25+	8)	7.00		132	Sft
	B.R	4	(7.5+	9.5)	7.00		476	Sft
		4	(8+	8)	7.00		448	Sft
		6	(6+	6)	7.00		504	Sft
		8	(6+	6)	7.00		672	Sft
	Old openings	2x39	2.50		7.00	Total	6104	Sft
							1365	
8	Supply and installation of Clip-in tile of specified thickness non-porous Alumnium false ceiling of specified size fitted with 'Clip-in' suspension system, hanged on Concealed T/Shiplap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge Bevelled edges & flange 21.5 mm 600 mmX 600 mm							4739
	MINOR OT	1	16.3	14			228	Sft
	LAB	2	11.875	16.5			392	Sft
	OT	2	27.25	30.50			1662	Sft
						Total: -	2282	Sft
9	Supply and installation anti microbial Hygenic flooring (with anti bacterial agent) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer.Incharge Cementitious Urethane, Epoxy, Polyurethane, Urethane							
	MINOR OT	1	16.3	14.00			228	Sft
	LAB STORE	2	11.875	16.50			392	Sft
	OT	2	27.25	30.50			1662	Sft
						Total: -	2282	Sft
10	Providing and fixing multi layer Aluminum Composite Panel Cladding comprising of PVC/PE coating over high strength Anti-rust Aluminum sheet of specified thickness over Polymeric membrane over LDPE/FR high fire retrdent core made of Alpolic/Areca i/c the cost of base frame of !-1/2"X1-1/2" GI angle Iron at specified intervals fillling the groove with Silicon and Hardwares as approved and directed by the Engineer Incharge. (i) 3 mm thick (Interior)							
	O.T	1	(16.3+	14)	12.00		364	Sft
	LAB STORE	4	(11.9+	16.5)	12.00		1362	Sft
	LAB STORE	4	(27.3+	30.5)	12.00		2772	Sft
						Total: -	4498	Sft



Sr. No.	ITEM OF WORK	No	MEAUSERMENTS L	B		H	Qty.	
		2	18.875	12			453	Sft
		2	13	12			312	Sft
		2	18	12			432	Sft
		1	100	12			1200	Sft
		2	30	12			720	Sft
						Total	**3327**	**Sft**
41	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-On interior surface (without mastic strip)							
		15	11				165	Rft
						Total	**165**	**Rft**
42	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.i/c Providing and fixing 6 in (150 mm). wideG.I. sheet 18SWG. stopper to expansion joint.							
		13	40				520	Rft
						Total	**520**	**Rft**
43	Construction of Reception Counter Brick Masonry Structure 3.5' height from ground level consisting of marble granite and kitchen cabnit 22" deep with back Complete in all Respect.							
		1	20		2.5		50	Sft
		1	14		2.5		35	Sft
		1	10		2.5		25	Sft
		1	14		2.5		35	Sft
						Total: -	**145**	**Sft**
44	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves.Medium Quality4" i/d (100 mm) 4.5mm thick							
	OHR to filteration plant	1400					~~1400~~	~~Rft~~
45	Electrification + Public Health(Plinth Area Rates 2nd Bi Annual 2020 Notified Vide Chief Engineer Punjab Building Department Lahore (NZ) No. CEBNZ/190/D, Dated 15.01.2021 for 1st Bi Annual Period 1st January 2021 to 30th June 2021						15000	
i	Covered Area for Electrification						~~38000~~	**Sft**
ii	Covered Area for Public Health						**38000**	**Sft**
	Deduction of Old Material							
1	Old Doors with Chowkat							
	Same Qty as per Item No. 11						52	No.
2	Old Windows							
	Same Qty as per Item No. 17						179	No.
3	Electric cables						1	Job

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Building Sub Division
Attock

Executive Engineer
Buildings Division,
Attock

ABSTRACT OF COST

(64)

CONSTRUCTION OF ROOM FOR FILTERATION PLANT

S. No	Description	Amount
1	Construction of Room for Filteration Plant 3469289	~~3513607~~ ~~4042935~~ /-
2	Electric Installation	71784
3	Detail of Water Suppy Network	1021085
	4562158 G.Total :	~~4684777~~ ~~5135805~~ /-
	Add 3% Contingency: 136885	~~138797~~ ~~154074~~ /-
	G.Total :	~~4754671~~ ~~5289879~~ /-

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Buildings Division
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ABSTRACT OF COST

CONSTRUCTION OF ROOM FOR FILTERATION PLANT

Sr No	Description	Qty	Unit	Rate	Amount
1	Excavation in foundation of building, bridges and other structures; including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in Hard soil.	1375	%0Cft	11949.45	16430
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth Ratio 1: 6: 12	366	%Cft	21178.45	77513
3	Pacca brick work in foundation and plinth in Ratio 1:6	662	%Cft	30137	199507
4	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	94	P.Cft	537.5	50525
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars Grade-40.	288	%Kg	31418.2	90484
6	Providing and laying damp proof course of cement concrete 1:2: 4 including bitumen coating with one coat bitumen and one coat polythene sheet 500gauge 1.5" thick	89	%Sft	8600.8	7655
7	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating with one coat of bitumen and one coat of polythene sheet 500 gauge ratio 1:4 ½" thick	129	%Sft	5514.55	7114
8	Pacca brick work in ground floor with cement, sand mortar Ratio 1:6	1083	%Cft	32320.85	350035
9	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 1: 2: 4 ratio	352 ~~355~~	P.Cft	537.5	189200 ~~190813~~
10	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars Grade-40.	1078 ~~1087~~	%Kg	31418.2	338688 ~~341516~~
11	Cement plaster 1:5 upto 20' height ½" thick	1177	%Sft	3082.5	36281
12	~~Cement plaster 1:4 upto 20' height ½" thick~~ Point of 1:2	1353	%Sft	~~3232.95~~ 3764.35	~~43750~~ 50759
13	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height 1:3 ratio	615	%Sft	3699.4	22747
14	Filling, watering and ramming earth under floors with surplus earth from foundation, etc	917	%0Cft	5090.45	4668
15	Filling, watering and ramming earth under floors with surplus earth from foundation, etc with new earth excavated from outside, 3 mile	0	%0Cft	18484.85	0
16	Supplying and filling sand under floor; or plugging in wells.	152	%Cft	3429.85	5213
17	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects	218	%Cft	9464.4	20632

Sr No	Description	Qty	Unit	Rate	Amount
18	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4	74	%Cft	36753.3	27197
19	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels (c) 1½"(40 mm) thick	328	%Sft	6927.1	22721
20	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x 3/8" thick	197	P.Rft	19.8	3901
21	Providing and fixing windows consisting of M.S. box section frame 2"x1½", (50x40mm) leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws including grill of M.S. flat ½"x1/8" (13x3mm) or ¼"x¼" (6x6mm) square bar with independent frame of ½"x½" (13x13mm) box section of 16 SWG i/c all C.P. fitting and painting 3 coats complete in all respect.	30	P.Sft	1,605.35	48161
22	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS: angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge Double Leaf	34	P.Sft	1,393.25	47371
23	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.600mmx 600 mm	460	P.Sft	340.35	156561
24	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full body Glazed Tile 600mm x600 mm	104	P.Sft	340.35	35396
25	Distempering new surface two coats with primary coat of chalk	1177	%Sft	1283.5	15107
26	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: new surface: 2 coat	~~1508~~	~~%Sft~~	~~1925.45~~	~~29041~~
27	Glazing with panes (24 oz. to 26 oz.), using putty and deodar wooden fillets.	8	P. Sft	207.15	1657

Sr No	Description	Qty	Unit	Rate	Amount
28	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	8	P. Sft	492.15	3937
29	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing using grey cement ½"(13 mm) thick	142	%Sft	20953.65	29754
30	P/F Resevse osmosis Drinking water filtration plant capacity 500-600 ltr LPH with blending UF membrane complete in all respect as approved and directed by Engineer Incharge	1	P.Job	~~1627920~~	1604480 ~~1627920~~
				Total	~~2513607~~ ~~4042935~~

3469289/-

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CONSTRUCTION OF ROOM FOR FILTERATION PLANT

S.#	Description	N	L	B	H	Qty	Unit
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.						
	H/Wall	3	24.125	3	3	651	Cft
	V/Wall	2	18.125	3	3	326	Cft
		2	3.125	3	3	56	Cft
						1033	**Cft**
	P.P	2	26.75	1.5	2	161	Cft
		2	30.125	1.5	2	181	Cft
						342	**Cft**
					Total	**1375**	**Cft**
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth Ratio 1: 6: 12						
	H/Wall	3	24.125	3	0.75	163	Cft
	V/Wall	2	18.125	3	0.75	82	Cft
		2	3.125	3	0.75	14	Cft
	P.P	2	26.75	1.5	0.333	27	Cft
		2	30.125	1.5	0.3333	30	Cft
		1	22.25	4.5	0.5	50	Cft
					Total	**366**	**Cft**
3	Pacca brick work in foundation and plinth in Ratio 1:6						
	H/Wall	3	23.375	2.25	0.25	39	Cft
		3	23	1.875	0.25	32	Cft
		3	22.625	1.5	0.25	25	Cft
		3	22.25	1.125	3	225	Cft
	V/Wall	2	16.875	2.25	0.25	19	Cft
		2	17.25	1.875	0.25	16	Cft
		2	17.625	1.5	0.25	13	Cft
		2	18	1.125	3	122	Cft
	V/Wall Veranda	2	3.875	2.25	0.25	4	Cft
		2	4.25	1.875	0.25	4	Cft
		2	4.625	1.5	0.25	3	Cft
		2	5	1.125	3	34	Cft
	steps	1	22.25	4.5	0.5	50	Cft
		1	22.25	3.375	0.5	38	Cft
		1	22.25	2.25	0.5	25	Cft
		1	22.25	1.125	0.5	13	Cft
					Total	**662**	**Cft**
4	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a),(i) above not requiring form work (i.e. horizental shuttering) complete in all respects Type C (nominal mix 1: 2: 4)						
	P/Beam H/Wall	3	22.125	1.125	0.75	56	Cft
	V/Wall	2	18	1.125	0.75	30	Cft
		2	5	1.125	0.75	8	Cft
					Total	**94**	**Cft**
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars Grade-40.						
	Same Qty as above	1	94	6.75	0.454	288	Kg
					Total	**288**	**Kg**
6	Providing and laying damp proof course of cement concrete 1:2: 4 including bitumen coating with one coat bitumen and one coat polythene sheet 500gauge 1.5" thick						
		2	22.25	1.125		50	Sft
		2	18	1.125		41	Sft
		3	1.125	1.125		4	Sft
					Total	**95**	**Sft**
	D/d	1	5	1.125		6	Sft
					Total	**89**	**Sft**
7	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating with one coat of bitumen and one coat of polythene sheet 500 gauge ½" thick						
		2	18	1.5		54	Sft
		2	20	1.5		60	Sft
		2	5	1.5		15	Sft
					Total	**129**	**Sft**

S.#	Description	N	L	B	H	Qty	Unit
8	Pacca brick work in ground floor with cement, sand mortar Ratio 1:6						
	H/Wall	2	22.25	1.125	12	601	Cft
	V/Wall	2	18.25	1.125	12	493	Cft
	Above	1	22.25	1.125	3.5	88	Cft
		2	5	1.125	3.5	39	Cft
	Pillar	3	1.125	1.125	8.5	32	Cft
					Total	**1253**	**Cft**
	Deduction Window	3	5	1.125	6	101	Cft
	Door	1	5	1.125	8.5	48	Cft
	Lintel	1	6	1.125	0.75	5	Cft
		3	6.5	1.125	0.75	16	Cft
					Total	**170**	**Cft**
					Net Qty	**1083**	**Cft**
9	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 1: 2: 4 ratio					309	
		21	25.25	29.375	0.417	~~618~~	Cft
		1	22.25	1.125	1	25	Cft
		1	6.5	1.125	0.75	5	Cft
		3	6.5	1.125	0.75	16	Cft
					Total	~~664~~ 355	**Cft**
10	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars Grade-40.					1087	
	355	~~664~~	6.75	0.4536		~~2033~~	**Kg**
11	Cement plaster 1:5 upto 20' height ½" thick						
		2	20	12		480	Sft
		2	18	12		432	Sft
		1	20	8		160	Sft
		2	5	3.5		35	Sft
		1	20	3.5		70	Sft
					Total	**1177**	**Sft**
12	Cement plaster 1:4 upto 20' height ½" thick						
	Outer walls	2	22.25	14.5		645	Sft
		2	20.25	14.5		587	Sft
		2	6.125	3.5		43	Sft
		1	22.25	3.5		78	Sft
					Total	**1353**	**Sft**
13	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height 1:3 ratio						
		1	20	18		360	Sft
		1	20	5		100	Sft
	Shade	2	29.375	1.5		88	Sft
		2	22.25	1.5		67	Sft
					Total	**615**	**Sft**
14	Filling, watering and ramming earth under floors with surplus earth from foundation, etc						
		1375			2/3	**917**	**Cft**
15	Filling, watering and ramming earth under floors with surplus earth from foundation, etc with new earth excavated from outside, 3 mile						
	Room	1	20	18	1.75	630	Cft
	Ver.	1	20	5	1.75	175	Cft
					Total	**805**	**Cft**
	Deduction (from Surplus earth)				(-)	917	Cft
					Total	**0**	**Cft**
16	Supplying and filling sand under floor; or plugging in wells.						
		1	20	18	0.33	119	Cft
		1	20	5	0.33	33	Cft
					Total	**152**	**Cft**
17	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects						
		1	20	18	0.33	119	Cft
		1	20	5	0.33	33	Cft
		2	30.875	2.25	0.25	35	Cft
		2	27.75	2.25	0.25	31	Cft
					Total	**218**	**Cft**
18	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4						
	Floor	1	20	18	0.16	58	Cft

S.#	Description	N	L	B	H	Qty	Unit
		1	20	5	0.16	16	Cft
					Total	**74**	**Cft**
19	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels 1½"(40 mm) thick						
		2	32.375	3		194	Sft
		2	22.25	3		134	Sft
					Total	**328**	**Sft**
20	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x 3/8" thick						
		328			0.6	**197**	**Rft**
21	Providing and fixing windows consisting of M.S. box section frame 2"x1½", leaves frame 1-½"x1" box section frame for glazing 3/8"x3/8" using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" M.S. flat for fixing 3/16" thick glass panes M.S. box section ½"x½" of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" M.S. flat and screws I/C all C.P. fitting and painting 3 coats complete in all respect.						
		3	5	6		90	Sft
					Total	**90**	**Sft**
22	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.						
		1	5		6.875	34	Sft
					Total	**34**	**Sft**
23	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.600mmx 600 mm						
		1	20	18		360	Sft
		1	20	5		100	Sft
					Total	**460**	**Sft**
24	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed Tile 600mm x600 mm						
		2	20		0.33	13	Sft
		2	18		0.33	12	Sft
		1	20		4	80	Sft
					Total	**105**	**Sft**
	D/d	1	4.5		0.33	1	Sft
					Total	**104**	**Sft**
25	Distempering new surface two coats with priming coat of chalk						
	Same Qty as per item No. 11					**1177**	**Sft**
26	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect new surface 2 coat						
	Same Qty as per item No. 12					1353	Sft
	Shade	2	29.375	1.5		88	Sft
		2	22.25	1.5		67	Sft
					Total	**1508**	**Sft**
27	Glazing with panes (24 oz. to 26 oz.), using putty and deodar wooden fillets.						
		1	5	1.5		**8**	**Sft**
28	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.						
		1	5	1.5		**8**	**Sft**
29	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing using grey cement ½"(13 mm) thick						
		1	20.25	7		**142**	**Sft**

P/F PANNEL BOARD MADE OF 18 SWG M.S SHEET 60x35x15 cm (24"x14"x6") SIZE HOUSING OF AUTOMATIC MINIATUERE CIRCUIT BREAKER FUJI/TERRASAKI WITH NEUTRAL LINK WITH THE FOLLOWING BREAKERS: (I) 6-10 AMP (S.P) 5 NO. (II) 11-20 AMP (SP) 2 NOS,(III) 6-63 AMP (SP) 2 NOS. I/C 3 COATS PAINTING, CABLE CONNECTION, COST OF VOLT METER, AMPERE METER, INDICATOR BULB COMPLETE IN ALL RESPECT AS APPROVED AND DIRECTED BY THE ENGINEER INCHARGE

Unit: Each

Sr. #	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit (Rs.)			
1	M/S Sheet Box 12"x14" duly powder coated.	1	No.	6775.05	Each	Rs.	6775
2	6 - 63 amp T/P	2	No.	8433	Each	Rs.	16866
4	11 - 20 amp S/P	2	Nos.	1298.65	Each	Rs.	2597
5	6 - 10 amp S/P	5	Nos.	1298.65	Each	Rs.	6493
7	LED Phase Indicator	3	Nos.	513	Each	Rs.	1539
8	Volt meter (0-600 Volt)	1	Nos.	753	Each	Rs.	753
9	Ampare meter (0-9999 Amp)	1	Nos.	993	Each	Rs.	993
11	Carriage Charges				L.S	Rs.	300
				TOTAL		Rs.	36317
	Contractor's Profit 20%					Rs.	7263
				G. TOTAL		Rs.	43580
				SAY:		Rs.	43580

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the MRS, 2nd BI-ANNUAL-2022 (01.07.2022 to 31.12.2022) DISTRICT ATTOCK

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ANALYSIS OF RATE FOR S/E OF LED LIGHT (12 WATTS) OF APPROVED MANUFACTURER COMPLETE IN ALL RESPECT AS APPROVED & DIRECTED BY THE ENGINEER INCHARGE.

Unit: Each

S.#	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit (Rs.)			
A)	**MATERIAL**						
1	Cost of LED Light (12 Watt)	1.00	No.	300	Each	Rs.	300
	TOTAL (A)					Rs.	300
B)	**LABOUR**						
i	Electrician Charges (30 Nos Energy Saver One day)	0.05	Day	1250	P.Day	Rs.	63
	Add 10% Sundries					Rs.	6
	TOTAL (B)					Rs.	69
	TOTAL (A+B)					Rs.	369
	Add 20% contractor profit.					Rs.	74
	G.TOTAL					Rs.	442
					Say	Rs.	440

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the MRS, 2nd BI-ANNUAL-2022 (01.07.2022 to 31.12.2022) DISTRICT ATTOCK

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ANALYSIS FOR CONSTRUCTION OF RECEPTION COUNTER BRICK MASONRY STRUCTURE 3.5' HEIGHT FROM GROUND LEVEL CONSISTING OF MARBLE GRENITE AND KITCHEN CABNIT 22" DEEP WITH BACK COMPLETE IN ALL RESPECT.

Analysis for 8.5'x2.75' = 23.375 Sft

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

1	8.5	0.75	3.5	22	Cft
2	2	0.375	2.5	4	Cft
			Total: -	**26**	**Cft**

@ Rs. 32320.85 %Cft 8403

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

2	8.5	3.5		60	Sft
2	2.75	2.5		14	Sft
			Total: -	**74**	**Sft**

@ Rs. 3232.95 %Sft 2392

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

1	8.5	1.75		15	Sft
1	3	1		3	Sft
1	5	1.5		8	Sft
1	2.75	3.5		10	Sft
1	8.5	3.5		30	Sft
1	8.5	1		9	Sft
			Total: -	**75**	**Sft**

@ Rs. 1308.85 P. Sft 98164

4 Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects. 2' deep,with back

1	7.75	2.5		19	Sft
			Total: -	**19**	**Sft**

@ Rs. 1174.2 P. Sft 22310

5 P/F Stainless steel corner beading angle 2"x2"x1/16" with double tape fixed with stainless steel nails i/c cutting fixing complete in all respect as approved by the Executive Engineer.

3	3.5			11	Sft
			Total: -	**11**	**Sft**

@ Rs. 640 P. Sft 7040

6 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 1: 2: 4 ratio

1	8.5	2	0.25	4	Cft
			Total: -	**4**	**Cft**

@ Rs. 537.5 P. Cft 2150

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

4	6.75	0.454		12	Kg
			Total: -	**12**	**Kg**

@ Rs. 31418.2 %kg 3770

Total: -	**144229**
Total: -	**144229**
Rate P.Sft: -	**6170.225**
Say: -	**6170**

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ROUGH COST ESTIMATE "BALANCE WORK OF REVAMPING OF ALL DHQ / 15 THQ HOSPITALS IN PUNJAB ONE AT DISTRICT HEADQUARTER HOSPITAL (ISFANDYAR BUKHARI HOSPITAL) DISTRICT ATTOCK FOR THE YEAR 2021-22". (EXTERNAL SEWERAGE SYSTEM)

Sr No	Description		Amount
1	Construction of septic tank		1895535
2	Construction of Manholes		2845100
3	external sewerage		7743000
		G.Total :	**12483635**

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EXTERNAL SEWERAGE

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

Sewerline 1.5' dia 1x3500x4x4 56000 Cft

Total : 56000 Cft

@ Rs **11740.40** %o Cft Rs. **657462 /-**

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

1x3500x4x.5 7000 Cft

Total:- **7000 Cft**

@ **9464.40** % Cft Rs. **662508 /-**

3 Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.460 mm (18") i/d

1400 Rft

Total:- **1400 Rft**

@ **1181.80** P.Rft Rs. **1654520 /-**

4 380 mm (15") i/d

1400 Rft

Total:- **1400 Rft**

@ **960.50** P.Rft Rs. **1344700 /-**

4 Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete310 mm (12") i/d

700 **Rft**

Total:- **700 Rft**

@ **695.60** P.Rft Rs. **486920 /-**

5 Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:- 6" i/d (100 mm)

1x2000 2000 Rft

Total:- **2000 Rft**

@ **871.55** P.Rft **1743100**

6 Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:-4" i/d (100 mm)

1x1400 1400 Rft

Total:- **1400 Rft**

@ **440.65** P.Rft **616910**

7 Providing and installing P.V.C. bends, of B.S.S with class B 4"dia

165 **nos**

165 **Each**

@ **543.55** **Each** **89686**

8	Providing and installing P.V.C. tees, of B.S.S with class B 4"dia	165 nos		
		165 Each		
		total		
	@ 1586.00	Each		261690
			Total: Rs.	7517496 /-
			Add 3% contingency	225525
			Total: Rs.	7743021
			Say:-	7743000 /-

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ABSTRACT OF COST FOR MANHOLE

Sr. No.	Description	Qty	Unit	Rate	Amount
1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock 0 ft. to 7.0 ft. (0 to 2.10 m) depth	6000	%0Cft	11740.4	70442
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth Ratio 1: 6:12	1000	%Cft	21178.45	211785
3	Pacca brick work in foundation and plinth in Cement, sand mortar ratio 1:6.	3060	%Cft	30137	922192
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4	490	%Cft	36753.3	180091
5	Cement plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	3360	%Sft	3232.95	108627
6	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)	481	P. Cft	537.5	258538
7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) Deformed bars (Grade-40)	1473	%Kg	31418.2	462790
8	Providing and fixing, 6" (150 mm) thick R.C.C. manhole cover for 22" as per standard drawing STD/PD No. 6 of 1977, complete in all respects.	80	Each	6847	547760
				Total: -	**2762225**
				Add 3% contingency	**82867**
				Total: -	**2845092**
				Say: -	**2845100**

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DETAIL FOR MANHOLE OF I/SIZE 3.5'X3.5'

1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock 0 ft. to 7.0 ft. (0 to 2.10 m) depth								
	Manhole		80	5	5	3		**6000**	**Cft**
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth Ratio 1: 6:12								
	Manhole		80	5	5	0.5		1000	Cft
3	Pacca brick work in foundation and plinth in Cement, sand mortar ratio 1:6.								
	Manhole		160	5	0.75	3		1800	Cft
			160	3.5	0.75	3		1260	Cft
							Total: -	**3060**	**Cft**
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4								
			80	3.5	3.5	0.5		490	Cft
5	Cement plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick								
			160	3.5	3			1680	Sft
			160	3.5	3			1680	Sft
							Total: -	**3360**	**Sft**
6	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)								
			80	4.25	4.25	0.333		481	Cft
							Total: -	**481**	**Cft**
7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) Deformed bars (Grade-40)								
			1	481	6.75	0.4536		**1473**	**Kg**
8	Providing and fixing, 6" (150 mm) thick R.C.C. manhole cover for 22" as per standard drawing STD/PD No. 6 of 1977, complete in all respects.								
								80	**No.**

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CONSTRUCTION OF 2 NO. SEPTIC TANK 36'X12'

Sr #	Description	No	L	B	H	Qty	Unit	Amount
1	Earth work excavation in open cutting like a man hole sewer line etc 0ft to 7ft depth.							
	Septic tank	2	36	12	10	8640	Ctt.	
					Total:	**8640**	**Cft.**	
	@ Rs.		11740.40		%0Cft			101437
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge 1:6:12.							
	Septic Tank	2	36	12	0.5	432	Cft.	
					Total:	**432**	**Cft.**	
	@ Rs.		21178.45		%Cft			91491
3	Pucca brick work 1:4 other then building.							
	Septic tank	4	35	1.125	8.75	1378	Cft.	
		4	8.75	1.125	8.75	345	Cft.	
	Partition Walls	6	8.75	0.375	7.25	143	Cft.	
					Total:	**1866**	**Cft.**	
	@ Rs.		32898.70		%Cft			613890
4	1/2" thick cement neru plaster 1:2 upto 20ft height.							
	Septic tank	4	32.75	8.75		1146	Sft.	
		4	8.75	8.75		306	Sft.	
		12	8.75	7.25		761	Sft.	
					Total:	**2213**	**Sft.**	
	@ Rs.		3780.70		%Sft			83667
5	PCC 1:2:4 including curring & finishing etc complete.							
	Septic tank	2	32.75	8.75	0.25	143	Cft.	
					Total:	**143**	**Cft.**	
	@ Rs.		36753.30		%Cft			52557
6	Extra cost for making finishing benching in manhole chamber with 1/8" thick cement.							
	Septic tank	2	32.75	8.75		573	Sft.	
					Total:	**573**	**Sft.**	
	@ Rs.		2934.10		%Sft			16812
7	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)							
	Septic tank	2	35	11	0.75	578	Cft.	
					Total:	**578**	**Cft.**	
	@ Rs.		537.50		P. Cft			310675
8	Fabrication mild steel reinforcement for cement concrete I/c cutting bending laying in position making joints and fastening I/c cost of binding wire and labour charges for binding of steel reinforcement (also included removal of rust form bars) Deformed bar Grade 40.							
		1	578	6.75	0.4536	1770	Kg's	
					Total:	**1770**	**Kg's**	
	@ Rs.		31418.20		%Kg			556102
9	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect:							
		2				2	No's	
					Total:	**2**	**No's**	
	@ Rs.		6847.00		Each			13694
							Total: -	**1840325**
							Add 3% contingency	**55210**
							Total: -	**1895535**

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ANALYSIS OF RATE

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

1st July 2021 to 31st Dec 2021 Unit Rate P.Sft

Sr. No	Detail	Qty	Unit	Rate	Amount
A	**MATERIAL**				
1	DAMPA False ceilling 2'x2' i/c wire	100			
	Add: 5% Wastage	5			
	Total	105	P. Sft	280	29400
2	Aluminum Tee 1"x1/16"				
	2x6x10	120			
	Add: 5% Wastage	6			
	Total	**126**	Each	25	3150
3	Cost of Rawal plug (1 No) for 1 Sft	**8**	P.Dozen	30	240
4	Cost of Screw 1 1/4" size	**8**	P.Dozen	50	400
5	1/8" dia Rod 5' long 1 for 2Sft				
	50x5 = 252 225x 0.41x0.454 = 4.25	**4.25**	P.Kgs	42	179
			Total "A"		**33369**
B.	**LABOUR**				
1	Labour for fixing of frame i/c hanging wire upto 20' high	100	P.Sft	20	2000
2	Carriage of Material from factory to site			L.S	300
				Total	**2300**
	Add: 10% Sundries.				**230**
			Total "B"		**2530**
			Total A + B		**35899**
	Add: 20% Contractor Profit & O.H Charges				**7180**
			Total		**43079**
	Rate P.Sft	43079.00	\	100	**430.79**
				Say Rs. P.Sft	**431**

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S/E of PVC Antibacterial wall cladding (bio code uk) back stature GI from 18 Gauge 12mm thick gypsum board will be fixed on wall to apply 2mm thick antimacrobial wall oven 14 to 16mm thickness joint will be heat welded in same colour (as specified in quotation) as approved and directed by Engineer Incharge.

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

S.#	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit			
1	Cost of PVC Antibacterial wall cladding (bio code uk) back stature GI from 18 Gauge 12mm thick gypsum board will be fixed on wall to apply 2mm thick antimacrobial wall oven 14 to 16mm thickness joint will be heat welded in same colour (as specified in quotation) as approved and directed by Engineer Incharge	1	No				
	Total:	1	No	1490.00	Each	Rs.	1490
				TOTAL		**Rs.**	**1490**
	Add 20% Contractor Profit					Rs.	298
				TOTAL		**Rs.**	**1788**
Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the MRS, 2nd BI-ANNUAL-2022 (01.07.2022 to 31.12.2022) DISTRICT ATTOCK							

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ANALYSIS OF RATE FOR P/F OF UPVC full solid door with (skypen profile 60mm frame) 2.2 gauge i/c imported handle locks rubber gas kit imported double tape complete in all respect as approved and directed by Engineer incharge.

Rate of Analysis for 4'x8' = 32 Sft

S. No.	Description	Quantity		Rate	Unit	Amount
(A)	**Material**					
1	U-PVC Door with Chowkat with fittings and locking arrangments	32	Sft			
	Add 5% Wastage	2	Sft			
		34	Sft	1900	P. Sft	64600
2	Fixing Charges	1	Job	1000	Each	1000
3	Carriage from market to site of work				L.S.	1500
					Total: -	**67100**
		Add 20% Contractor Profit: -				**13420**
					Total (A): -	**80520**
					Rate P. Sft: -	**2516.3**
					Say: -	**2500**

Sub Divisional Officer
Building Sub Division
Attock

Executive Engineer
Building Division
Attock

Analysis of rates

P/F Stainless steel corner beading angle 2"x2"x1/16" with double tape fixed with stainless steel nails i/c cutting fixing complete in all respect as approved by the Executive Engineer.

S.No.	Description	Quantity		Rate	Unit	Amount
	Material.					
1	Cost Stainless steel corner beading angle 2"x2"x1/16" with imported double tape fixed i/c cutting fixing complete i/c labour complete	1.00	Rft	540	P.Rft	540
					Total	**540**
					Add 20% contractor profit	**108**
					Total "A"	**648**
					Say Rs.	**640**

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ANALYSIS OF THE RATE FOR P/F of LEAD Lining 1.5 mm thick lead sheet with wall for radiation protection upto roof height as aper instruction 8"x4" i/c cost of labour complete in all respect as approved and directed by the Engineer Incharge also approved the Radiation Protecting agency etc..

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

S.#	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit			
1	P/F Led Lining Sheet 1.5 mm thick	1	No				
	Total:	1	No	850.00	Each	Rs.	850
					TOTAL	**Rs.**	**850**
	Add 20% Contractor Profit					Rs.	170
					TOTAL	**Rs.**	**1020**
					Say:	**Rs.**	**1020**

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the MRS, 2nd BI-ANNUAL-2022 (01.07.2022 to 31.12.2022) DISTRICT ATTOCK

Sub Divisional Officer
Buildings Sub Division
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Executive Engineer
Building Division
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ANALYSIS OF RATE FOR S/E OF SMD LIGHT PHILIPS (16 WATT) OF APPROVED MANUFACTURER COMPLETE IN ALL RESPECT AS APPROVED & DIRECTED BY THE ENGINEER INCHARGE.

Unit: Each

S.#	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit (Rs.)			
A)	**MATERIAL**						
1	Cost of SMD Light 16 Watt.	1.00	No.	1300	Each	Rs.	1300
				TOTAL (A)		Rs.	1300
B)	**LABOUR**						
i	Electrician Charges (10 Nos One day)	0.1	Day	1250	P.Day	Rs.	125
ii	Scaffolding L/S	1		60	Each	Rs.	60
iii	Carriage Charges.	1		30	Each	Rs.	30
				TOTAL (B)		Rs.	215
				TOTAL (A+B)		Rs.	1515
	Add 20% contractor profit.					Rs.	303
				G.TOTAL		Rs.	1818
					Say	Rs.	1800

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the MRS, 2nd BI-ANNUAL-2022 (01.07.2022 to 31.12.2022) DISTRICT ATTOCK

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Attock

Executive Engineer
Buildings Division,
Attock

ANALYSIS RATE FOR P/F OF ANTISTATIC ANTIBACTERIAL VINYL FLOORING WITH FIXATION ON FLOOR I/C CARRIAGE OF MATERIAL FROM MARKET TO SITE OF WORK COMPLETE IN ALL RESPECT AS APPROVED/ DIRECTED BY THE ENGINEER INCHARGE

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

S.#	Detail of Material	UNIT RATE P.Sft				AMOUNT	
		Quantity		Rate Per Unit			
1	P/F Antistatic vinyl flooring with copper mesh jointless welding in the same colour 2mm thick i/c labour	1	No				
	Total:	1	No	430.00	Each	Rs.	430
				TOTAL		Rs.	430
	Add 20% Contractor Profit					Rs.	86
				TOTAL		Rs.	516

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the MRS, 2nd BI-ANNUAL-2022 (01.07.2022 to 31.12.2022) DISTRICT ATTOCK

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Buildings Sub Division
Attock

Executive Engineer
Building Division
Attock

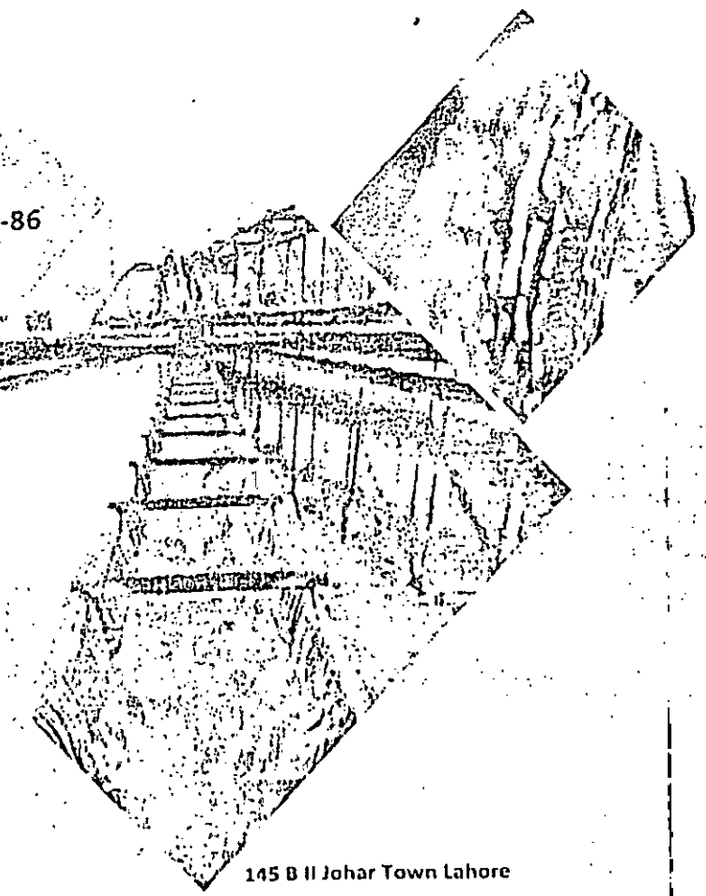
WCSP 2022

WATER CARE SERVICES PAKISTAN (WCSP)

Quotation Document

Sales Tax: Reg# 32-77-8761-979-86

NTN# 3019442-3



145 B II Johar Town Lahore

(91)

WCSP 2022

To: Mr Zeeshan

Project Title: 2 m3/hr RO

Proposal No: WCSP/RO/Q-2022-08

Model ID: RO-2 m3/hr

REV No: 00

Location: Installation/Operation and Transplantation

Client Id: CNW

Date: 16-08-2022

Submitted by: Abdul Aziz Khurram

(0321-4106491)

ALLCERT No. Certificate: 03199 ISO 9001:2015

ALLCERT No. Certificate: 02190 ISO 14001:2015

MEMBER Water Quality Association

www.watercaresmkrs.com

CamScanner

Scanned with CamScanner

Contents

Introduction

Water Care Services Pakistan (WCSP) was established in 2007. We are a total water management company, with a rich talent of water treatment, innovative environmental management and wastewater treatment system. WCSP claims of A Total Water Management Company which makes it distinguished and a single source of Industrial Water management with international credibility. WCSP holds national & International memberships and accreditations. We are specialized in Total Water Management comprising of project management, designing, fabrication of equipment, installations, erection and commissioning. Our focus is to execute projects on turnkey basis. Our scope of services in Total Water Management (TWM) is Boiler water, Cooling Water, RO water plants, Effluents, special water treatment chemicals, chemical free water treatment and quality assurance water testing kits and programs. We have more than 150 industrial clients spread in the region. We evolve & develop water and environmental management systems. WCSP owns an R & D lab, where we develop solutions as per industrial requirements, so we optimize and evolve technology. Water is our passion, and we take it as a noble cause. We have qualified staff, including engineers, chemist, environmentalist & fabricators. Our team dedicatedly work for water & environmental challenges, and provide with an energy efficient, economical and relevant solution.

Our extended strength are our international consultants, patents subscriptions and research blogs. Our objective is to develop and run the system trouble free, uninterruptable & long life. For more details please logon to www.watercareservices.org

Scope of Work

It includes the designing, fabrication, & installation of 2 m3/hr. water treatment Plant. It will provide 2 m3/hr. RO base equipment, which will take water at 60 Psi pump. Water passes through chlorination, sand filter, activated carbon filter, cartridge filters of 5 micron. Treated water from 5-micron filter bank is fed to skid mounted Reverse Osmosis process through high pressure pumps to eliminate all dissolved salts. After the RO system, passes through the UV and then directly used. RO based system with Gauges & controls will facilitate the operator to run & monitor system smoothly. From RO membranes, the amount of TDS reduces.

Sand filter gets clogged when it removes impurities from raw water, so when pressure difference drops to a certain value it will automatically run the backwash and will clean the filter. Backwash is usually done for 15 min.

Our system also includes dosing of anti-scaling chemicals, these chemicals will reduce the formation of scale in pipes as well as on membranes and will improve the life of the system.

The technology is environment friendly & reduces your chemical cost. Many references are available throughout Pakistan.

P&ID and PFD

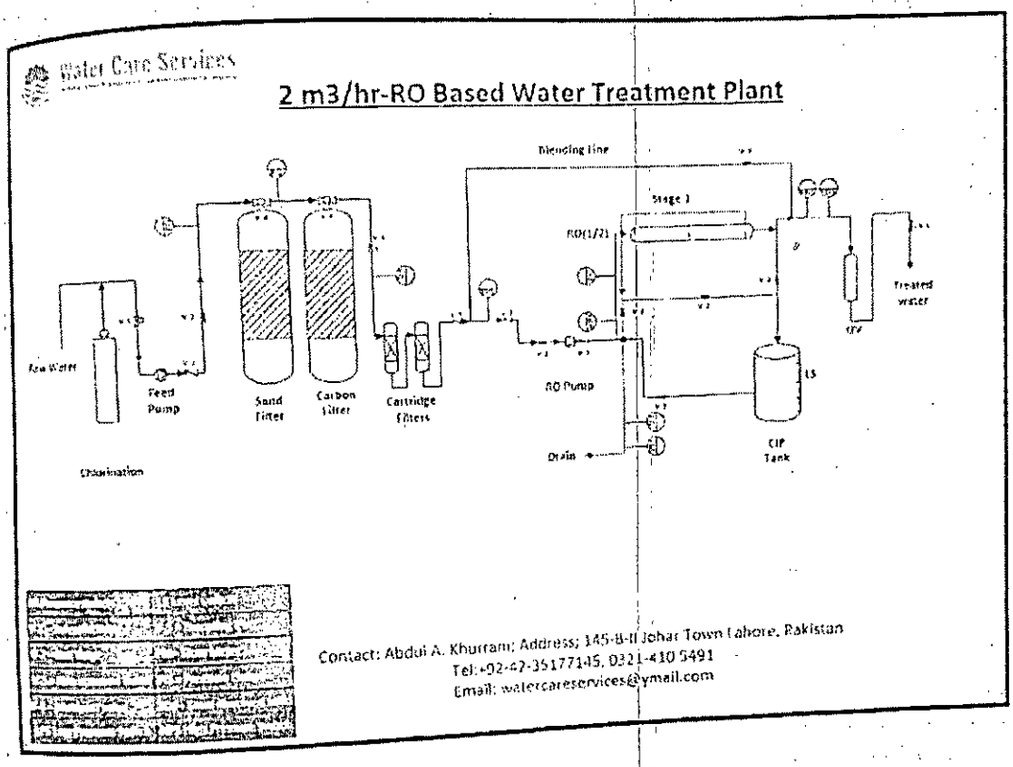
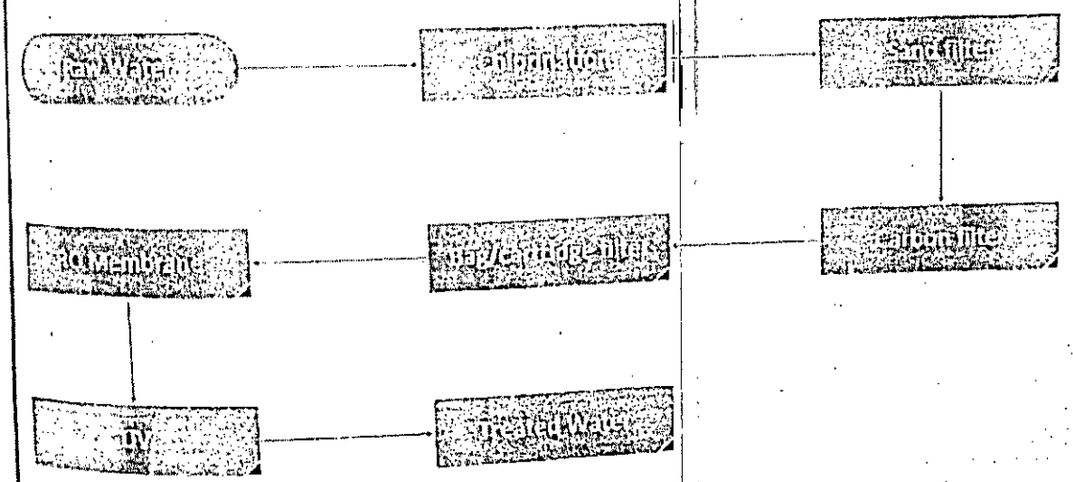


Figure 1: PFD for RO

Water Care Services

RO PLANT: 2 m3/hr RO based Water Treatment Plant



Contact: Abdul A. Khurram; Address; 145-B-II Johar Town Lahore, Pakistan
Tel:+92-42-35177145, 0321-410 5491
Email: watercareservices@ymail.com

Design Basic

Sr. No.	Parameter	Unit	Value
1	Feed Flow	m3/Hr.	4
2	Inlet TDS	mg/l	500
3	Final TDS	mg/l	<20
5	Product Flow	m3/hr.	2

PLANT DESIGN BASIC

Plant is designed on the basis of special software & advanced engineering calculations. Design will also be wet from third party before going to start fabrications.

Electro-Mechanical Equipment's

Details				
Sr. No	Description	QTY	Make/model	Specifications
1	Skid Structure	1	WCSP	MS with enamel coating
2	Chlorine Dosing Station	1	Etatron	5 - 7 Liter/h , 7 bar, 80 L
3	Feed water pump	1	CNP	4 m^3/hr, 60 psi
4	Sand Filter	1	Pentair/Equivalent	16" x 65",Multi grade sand,Manual, FRP
5	Activated Carbon Filter	1	Pentair/Equivalent	16" x 65",Activated Carbon, Manual, FRP
6	Cartridge Filter 5 Micron	2	China/Taiwan	5 Micron, 4" x 20"
7	RO High pressure pump	1	CNP	4 m^3/hr, (200 psi), 3 phase
8	RO membrane	2	DOW / Equivalent	8"x40" TFC, Brackish
9	Pressure vessels	2	KDL	300 psi, no of membrane elements per shell: 1
10	Flow Meter	2	SHLLJ	As required
11	TDS Meter	1	CREATE	0-2000 ppm
12	Pressure Gauge	4	Truteller	0 ~ 250 Psi,
13	High Pressure Switch	1	Danfoss	0 - 200 psi
14	Low Pressure Switch	1	Danfoss	0 - 110 psi
15	High Pressure Throttle valve	1		1", stainless steel
16	Antiscallant Dosing System	1	Etatron	5 - 7 Liter/h , 7 bar, 80 L
17	Solenoid Valves	3		1"
18	Electrical Panel	1		• Panel Box • Magnetic Connector with Overload • Emergency Stop Switch
19	Pressure Pipes and Fitting		Dadex/ Equivalent	All pipes and fittings will be of uPVC
20	Raw & Product Water Tank	2	Life/ Equivalent	HDPE 500 Gallon
21	UV Lamp	1	Philips / Equivalent	SS, 55 W, 55 W
22	CIP System	1		Manual ports with 80 L Tank

Commercial

RO System Price	Rs.1,235,000/-
Installation	Inclusive
Water Distribution Header	Rs. 18,500/-

Total = 1253500
Add 17% GST = 213095
Total 1466595

Additional:

Add 11% cont. Profit = ~~162325~~ 137885
G. Total = ~~1627920~~/- 1604480 | 2

- GST (17%) is not added in above quotation.
- Freight to shift equipment at client side
- Room /Shed from weather protection will be at client side
- Boarding and lodging at client side
- Final sample charges from third lab will be client responsibility
- In pipe and fittings our quote price is contains on 10ft pipe over the specific quantity of joints and pipe will be charged separately.
- Price Validity: 01 Week

Payment Terms:

- 60% advance payment
- 30% before installation
- 10% after installation

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Tasks at Client End

1. Three Phase Electricity availability
2. Alternate energy arrangement
3. Electric earthing of equipment
4. Liaison.& cooperation with our technical team
5. Fee payment for sample analysis time to time from some laboratories

Warranty/ Guarantee

Limited warranty is available on the operation of the system. Electrical parts are not under warranty.

Warranty Details

1. Warranty includes workmanship
2. No leakage
3. Pumps performance
4. System performance

Additional Benefits

- System developers, for details logon to www.watercareservices.org
- Strong Backup
- Company owns Lab for quality assurance
- Versatile disciplinary technical expertise
- Proactive
- Economical & quality conscious
- Low operation & maintenance cost
- Advance level documentation
- Training

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MINHAS SAFETY CONCERNS

Established since 1970

Ref: MS/Q-003-4815-Isb

Date: 04-08-2022

QUOTATION

Attn : Mr.Zeeshan
T H Q HOSPITAL
Jand

GST NO 07-02-8424-010-19
NTN NO. 1762110-7

Reference to the Telephonic Conversation with you we are pleased to offer the the best rates of *Fire Alarm Sytem* System as followos

S.No	Description	Unit	Unit Price	Qty	Total Price
1	FIRE ALARM CONTROL PANEL With Batter Backup Type : Conventional Make : C.Tech/Contect Plus UK Capacity : 16-Zone	Nos	250000.00	2	500000.00
2	FIRE ALARM CONTROL PANEL With Batter Backup Type : Conventional Make : C.Tech/Contect Plus UK Capacity : 04-Zone	Nos	48000.00	1	48000.00
3	Smoke Detector	Nos	4200.00	650	2730000.00
4	Sounder Flasher	Nos	5500.00	26	143000.00
5	Call Point Break Glass Type	Nos	3500.00	26	91000.00
6	Installation Charges for the above Installation & wiring of Fire Alarm System, wired with 1.5 mm PVC Insulated cables in 20mm (DIA) PVC Channel, complete with all Accessories including, Testing Training & commissioning	Nos	3200.00	736	2355200.00
7	TESTING & COMMISSIONING FIRE ALARM SYSTEM	JOB	50000.00	1	50000.00
				Total Amount	5917200.00
				GST 17%	1005924.00
				Grand Total	6923124.00

TERMS AND CONDITIONS

Validity : 10 - Days
Payment : 50% Advance
40% Equpiment Delivery
10% After Testing Commissioning
Warranty : **12-Months**

FOR MINHAS SAFETY CONCERNS

ABDUL MUNIM
General Manager
Voice: +92 51 2104157
Fax: +92 51 2104235
Cell: +92 321 5555102
Email: isb@minhasfiresafe.com
Web: www.minhasfiresafe.com

Add 11% Contractor Profit :- 650892 ~~761544~~

Total :- ~~7684668~~/-

7574016/-

2

Executive Engineer
Buildings Division
ATTOCK

DESIGN OF ELECTRIC PANEL AND POWER CABLE OF REVAMPING OF DHQ HOSPITAL, ATTOCK

Provision/Installation of Electrical Equipment .

S.#	Description			Qty:	Unit
A"					
A"	L.T. (LV) SUB-STATION EQUIPMENT :				
1.00	Supply, installation, testing, commissioning of 1000A MAIN L.T PANEL WITH ATS with Incoming From 400KVA Transformer 1,2,3 &4 & 02- 500KVA GENSET, with ON-OFF Indication Lamp, Insturement Protection Fuse, including 1000A Main copper bus bar Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 14 SWG miled steel sheet fabricated, Inddor Type, Floor Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Legarand Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC. and shall be of one make only and not to be mixture. (PANEL COUPLE WITH PFI PLANT.)				
	MAIN SWITCH BOARD-(For 400KVA T/F-01,T/F-02 & T/F-03)				
	INCOMING FROM 400KVA TRANSFORMER				
1	1000A TP MCCB 50KA	Terasaki /Schneider	01 No.		
2	Surge Protective Device (SPD) 4P 100KA	Phoenix/Iskra	01 No.		
3	Digital Ampere Meter 1000/5A	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 1000/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights. R+Y+B	Himel/Schneider	03 Nos.		
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Copper Bus Bar	PEMPAK	01 Job.	3	Each.
	MAIN SWITCH BOARD-(For 630KVA T/F-04)				
	INCOMING FROM 630KVA TRANSFORMER				
1	1000A TP MCB 50KA	Terasaki /Schneider	01 No.		
2	Surge Protective Device (SPD) 4P 100KA	Phoenix/Iskra	01 No.		
3	Digital Ampere Meter 1000/5A	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 1000/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights. R+Y+B	Himel/Schneider	03 Nos.		
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Copper Bus Bar	PEMPAK	01 Job.	1	Each.
2.00	Supply, installation, testing, commissioning of EMERGENCY SYNCHRONIZING/ LOAD SHARING PANEL with Incoming-1&2 From 200KVA Genset-1 & 2 and Incoming-3,4 & 5 from 100KVA Genset-3,4 & 5 with ON-OFF Indication Lamp, Insturement Protection Fuse, including 1000A Main copper bus bar Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 14 SWG miled steel sheet fabricated, Inddor Type, Floor Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Legarand Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC. and shall be of one make only and not to be mixture. (PANEL COUPLE WITH PFI PLANT.)				
	INCOMING FROM 200KVA GENSET-1				
1	400A TP MCCB 36KA	Terasaki /Schneider	01 No.		
2	400A 4P Magnetic Contactor	Terasaki /Schneider	01 No.		
2	Synchronizing & Load Sharing Module	Deep Sea/ Eqv.			
3	Digital Ampere Meter	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 400/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights. R+Y+B+ON+OFF	Himel/Schneider	03 Nos.		

S.N	Description			Qty	Unit
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Push Button ON/OFF	Himel/Schneider	05 Nos.		
11	Battery and Battery Charger	Imported	01 No.		
	INCOMING FROM 200KVA GENSET-2				
1	400A TP MCCB 36KA	Terasaki /Schneider	01 No.		
2	400A 4P Magnetic Contactor	Terasaki /Schneider	01 No.		
2	Synchronizing & Load Sharing Module	Deep Sea/ Eqv.			
3	Digital Ampere Meter	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0-600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 400/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights R+Y+B+ON+OFF	Himel/Schneider	03 Nos.		
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Push Button ON/OFF	Himel/Schneider	05 Nos.		
11	Battery and Battery Charger	Imported	01 No.		
	INCOMING FROM 100KVA GENSET-3				
1	400A TP MCCB 36KA	Terasaki /Schneider	01 No.		
2	400A 4P Magnetic Contactor	Terasaki /Schneider	01 No.		
2	Synchronizing & Load Sharing Module	Deep Sea/ Eqv.			
3	Digital Ampere Meter	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0-600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 400/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights R+Y+B+ON+OFF	Himel/Schneider	03 Nos.		
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Push Button ON/OFF	Himel/Schneider	05 Nos.		
11	Battery and Battery Charger	Imported	01 No.		
	INCOMING FROM 100KVA GENSET-4				
1	400A TP MCCB 36KA	Terasaki /Schneider	01 No.		
2	400A 4P Magnetic Contactor	Terasaki /Schneider	01 No.		
2	Synchronizing & Load Sharing Module	Deep Sea/ Eqv.			
3	Digital Ampere Meter	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0-600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 400/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights R+Y+B+ON+OFF	Himel/Schneider	03 Nos.		
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Push Button ON/OFF	Himel/Schneider	05 Nos.		
11	Battery and Battery Charger	Imported	01 No.		
	INCOMING FROM 100KVA GENSET-5				
1	400A TP MCCB 36KA	Terasaki /Schneider	01 No.		
2	400A 4P Magnetic Contactor	Terasaki /Schneider	01 No.		
2	Synchronizing & Load Sharing Module	Deep Sea/ Eqv.			
3	Digital Ampere Meter	Entes/Camsco/Himel	01 No.		
4	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
5	Digital Volt Meter 0-600V	Entes/Camsco/Himel	01 No.		
6	Volt Selector Switch	GGT/ANS/Himel	01 No.		
7	Current Transformer 400/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lights R+Y+B+ON+OFF	Himel/Schneider	03 Nos.		
9	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
10	Push Button ON/OFF	Himel/Schneider	05 Nos.		
11	Battery and Battery Charger	Imported	01 No.		
	OUTGOING				
1	[illegible] TP MCCB [illegible]	Terasaki/Japan/Legrand/Schneider	02 Nos.	1	Each

S.#	Description			Qty:	Unit
3.00	Supply, installation, testing, commissioning of **1000A MAIN L.T PANEL WITH ATS** with Incoming From 400KVA Transformer 1,2,3 &4 & 02- 500KVA GENSET, with ON-OFF Indication Lamp, Insturement Protection Fuse, including 1000A Main copper bus bar Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 14 SWG miled steel sheet fabricated, Inddor Type, Floor Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above ACB/MCCBs/MCBs. Make in Terasaki Japan/Legarand Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC. and shall be of one make only and not to be mixture. (PANEL COUPLE WITH PFI PLANT.)				
	1000A MAIN L.T PANEL				
		INCOMING FROM MSB-NORMAL 400KVA TRANSFORMER-1			
	1	1000A TP ACB 65KA	Terasaki Japan/Schneider Eu./Legrand.Eu/ABB Eu.	01 No.	
	2	Motor Mechanism for ACB.		01 No.	
	3	Under Voltage Trip for ACB.		01 No.	
	4	Shunt Trip Coil for ACB.		01 No.	
	5	Digital Ampere Meter 0~800A	Entes/Camsco/Himel	01 No.	
	6	Ampere Selector Switch	GGT/ANS/Himel	01 No.	
	7	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.	
	8	Volt Selector Switch	GGT/ANS/Himel	01 No.	
	9	Current Transformer 1000/5A	Fico/Metelx	03 Nos.	
	10	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.	
	11	6A Control MCB for Instrument Protection.	Imported	03 Nos.	
		INCOMING FROM MSB-NORMAL 400KVA TRANSFORMER-2			
	1	1000A TP ACB 65KA	Terasaki Japan/Schneider Eu./Legrand.Eu/ABB Eu.	01 No.	
	2	Motor Mechanism for ACB.		01 No.	
	3	Under Voltage Trip for ACB.		01 No.	
	4	Shunt Trip Coil for ACB.		01 No.	
	5	Digital Ampere Meter 0~800A	Entes/Camsco/Himel	01 No.	
	6	Ampere Selector Switch	GGT/ANS/Himel	01 No.	
	7	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.	
	8	Volt Selector Switch	GGT/ANS/Himel	01 No.	
	9	Current Transformer 1000/5A	Fico/Metelx	03 Nos.	
	10	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.	
	11	6A Control MCB for Instrument Protection.	Imported	03 Nos.	
		OUTGOING			
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.	
	2	400A TP MCCB 25KA (SPARE)		01 No.	
	3	160A TP MCCB 25KA (SPARE)		01 No.	
	4	100A TP MCCB 25KA (SPARE)		01 No.	
		BUS COUPLER			
	1	800A TP ACB 65KA	Terasaki Japan/Legrand/Schneider	01 No.	
	2	Motor Mechanism for ACB.		01 No.	
	3	Under Voltage Trip for ACB.		01 No.	
	4	Shunt Trip Coil for ACB.		01 No.	
	5	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.	
	6	6A Control MCB for Instrument Protection.	Imported	03 Nos.	
	7	Automatic Interlocking	PEMPAK	01 No.	
		INCOMING FROM EMERGENCY/LOAD SHARING PANEL 800A MCCB			
	1	800A TP ACB 65KA	Terasaki Japan/Schneider Eu./Legrand.Eu/ABB Eu.	01 No.	
	2	Motor Mechanism for ACB.		01 No.	
	3	Under Voltage Trip for ACB.		01 No.	
	4	Shunt Trip Coil for ACB.		01 No.	
	5	Digital Ampere Meter 800/5A	Entes/Camsco/Himel	01 No.	
	6	Ampere Selector Switch	GGT/ANS/Himel	01 No.	
	7	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.	
	8	Volt Selector Switch	GGT/ANS/Himel	01 No.	
	9	Current Transformer 800/5A	Fico/Metelx	03 Nos.	
	10	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.	
	11	Control MCB for Instrument Protection.	Imported	03 Nos.	
		OUTGOING			
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.	
	2	630A TP MCCB 36KA		01 No.	
	3	250A TP MCCB 25KA (SPARE)		02 Nos.	1 Each
		BUS COUPLER			
	1	800A TP ACB 65KA		01 No.	

S.#		Description			Qty:	Unit
	2	Motor Mechanism for ACB.	Terasaki Japan/Legrand/Schneider	01 No.		
	3	Under Voltage Trip for ACB.		01 No.		
	4	Shunt Trip Coil for ACB.		01 No.		
	5	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.		
	6	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
	7	Automatic Interlocking	PEMPAK	01 No.	1	Each.
		INCOMING FROM MSB-NORMAL 400KVA TRANSFORMER-3				
	1	1000A TP ACB 65KA	Terasaki Japan/Schneider Eu./Legrand.Eu/ABB Eu.	01 No.		
	2	Motor Mechanism for ACB.		01 No.		
	3	Under Voltage Trip for ACB.		01 No.		
	4	Shunt Trip Coil for ACB.		01 No.		
	5	Digital Ampere Meter 0~800A	Entes/Camsco/Himel	01 No.		
	6	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	7	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	8	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	9	Current Transformer 1000/5A	Fico/Metelx	03 Nos.		
	10	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.		
	11	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
		INCOMING FROM MSB-NORMAL 630KVA TRANSFORMER-4				
	1	1000A TP ACB 65KA	Terasaki Japan/Schneider Eu./Legrand.Eu/ABB Eu.	01 No.		
	2	Motor Mechanism for ACB.		01 No.		
	3	Under Voltage Trip for ACB.		01 No.		
	4	Shunt Trip Coil for ACB.		01 No.		
	5	Digital Ampere Meter 0~800A	Entes/Camsco/Himel	01 No.		
	6	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	7	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	8	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	9	Current Transformer 1000/5A	Fico/Metelx	03 Nos.		
	10	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.		
	11	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
		OUTGOING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.		
	2	630A TP MCCB 36KA		01 No.		
	3	100A TP MCCB 25KA (SPARE)		01 No.		
	4	63A TP MCCB 25KA (SPARE)		01 No.	1	Each.
		BUS COUPLER				
	1	800A TP ACB 65KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Motor Mechanism for ACB.		01 No.		
	3	Under Voltage Trip for ACB.		01 No.		
	4	Shunt Trip Coil for ACB.		01 No.		
	5	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.		
	6	6A Control MCB for Instrument Protection.	Imported	03 Nos.		
	7	Automatic Interlocking	PEMPAK	01 No.	1	Each.
		INCOMING FROM EMERGENCY/LOAD SHARING PANEL 800A MCCB				
	1	800A TP ACB 65KA	Terasaki Japan/Schneider Eu./Legrand.Eu/ABB Eu.	01 No.		
	2	Motor Mechanism for ACB.		01 No.		
	3	Under Voltage Trip for ACB.		01 No.		
	4	Shunt Trip Coil for ACB.		01 No.		
	5	Digital Ampere Meter 800/5A	Entes/Camsco/Himel	01 No.		
	6	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	7	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	8	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	9	Current Transformer 800/5A	Fico/Metelx	03 Nos.		
	10	Indication Lights. R+Y+B+ON+OFF	Terasakil/Schneider	05 Nos.		
	11	Control MCB for Instrument Protection.	Imported	03 Nos.		
		OUTGOING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.		
	2	250A TP MCCB 25KA (SPARE)		02 Nos.	1	Each.

S.#		Description			Qty:	Unit
4.00		Supply, installation, testing, commissioning of **200KVAR POWER FACTOR IMPROVEMENT PLANT** with 4-step 25Kvar, 2-step 50Kvar Coupling arrangement of L.T. PANEL, Power Capacitors, Magnatic Contactor 220VAC, 63/125A HRC Fuse, 06-Step PFI Controller, ON-OFF Indication Lamp, ON/OFF Push Button, Auxiliary Contactor 4NO+4NC, Auto Manual Switch, Insturement Protection Fuse, including 1000A Main copper bus bar Suitable For Each Phase & link Cable as per above Capacitor, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 12/14 SWG miled steel sheet fabricated, Inddor Type, Floor Mounting, Insulation class 600VAC, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 95 -100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above Component Make Togami/Schenider/Mitsubishi/Hatachi/ABB, Capacitor Entes, Iskar,Enerlux, ZEZ, Amber, GE, shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. (PLANT COUPLE WITH MAIN L.T. PANEL)				
		200KVR PFI PLANT			1	
	1	Power Capacitor 25KVAR	Iskara/Entes/Enerlux/ZEZ/Amber/GE	04 Nos.		
	2	Magnetic Contactor 50A AC3 for 25kvar	Tersaki/Schenider/Mitsubis/ABB,	02 Nos.		
	3	Power Capacitor 50KVAR	Iskara/Entes/Enerlux/ZEZ/Amber/GE	04 Nos.		
	4	Magnetic Contactor 105A AC3 for 50kvar	Tersaki/Schenider/Mitsubis/ABB,	02 Nos.		
	5	63A HRC Fuses with bases	Efen/Jenmuller/DF-Electric/Himel.	12 Nos.		
	5	125A HRC Fuses with bases	Efen/Jenmuller/DF-Electric/Himel.	06 Nos.		
	6	Reactive Power Factor Controller 06-Steps	Entes/Inter/Mikro	01 No.		
	7	ON indication Lights	Terasakil/Schneider	06 Nos.		
	8	Push Button ON/OFF	Terasakil/Schneider	12 Nos.		
	9	Current Transformer. 1000/5A	Fico/Metelx	01 No.		
	10	Auxiliary Contactor (4NO+4NC)	Togami/Hatachi/Eqv.	04 Nos.		
	11	6A Control MCB S/P For Protection	Terasakil/Schneider	03 Nos.		
	12	Auto/Manual Switch.	GGT/Camsco/Eqv.	01 No.		
	13	Surge Suppressors.	PEMPAK	18 Nos.		
	14	Exhaust Fan Cassettes.	Imported.	01 No.		
	15	Temperature Regulator 0~60C	Alfa Elec/Finder	01 No.	2	Each.
5.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR TB WARD & GAYNAE.** with Incoming 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA.				
B"						
		SUB MAIN PANEL BOARD- NORMAL FOR TB WARD & GAYNEA				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	05 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.

S.#		Description			Qty:	Unit
6.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR TB WARD & GAYNAE** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	5	Each.
7.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR MALE & FEMALE.** with Incoming 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA				
		SUB MAIN PANEL BOARD- NORMAL FOR MALE & FEMALE				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	08 Nos.		
	2	100A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
8.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR MALE & FEMALE** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	8	Each.

S.#		Description			Qty:	Unit
9.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR PHARMACY**. with Incoming 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA				
		SUB MAIN PANEL BOARD- NORMAL FOR PHARMACY				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	**Each.**
10.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR PHARMACY** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as pe- above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	3	**Each.**
11.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR LABORATORY**. with Incoming 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle. all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .				
		SUB MAIN PANEL BOARD- NORMAL FOR LABORATORY				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		

S.#		Description			Qty:	Unit
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
12.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR LABORATORY** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	6	Each.
13.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR EMERGENCY**. with Incoming 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .				
		SUB MAIN PANEL BOARD- NORMAL FOR EMERGENCY				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
14.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR EMERGENCY** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				

S.#		Description			Qty:	Unit
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	6	Each.
15.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR CCU & PEEDS. with Incoming** 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA.				
		SUB MAIN PANEL BOARD- NORMAL FOR CCU & PEEDS				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	04 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
16.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR CCU & PEEDS** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	4	Each.
17.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL FOR ADMIN, OPD HALL & DIALYSIS**. with Incoming 400A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .				
		SUB MAIN PANEL BOARD- NORMAL FOR ADMIN, OPD HALL & DIALYSIS				
		INCOMING				
	1	400A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		

S.#		Description			Qty:	Unit
	6	Current Trasformer 400/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	04 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
18.00	Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL FOR ADMIN, OPD HALL & DIALYSIS** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	16/20 SP MCB 6KA		18 Nos.	4	Each.
19.00	Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-NORMAL & EMERGENCY FOR OTI HALL.** with Incoming 630A TP MCCB, Insturement Protection & outgoing circuit breaker, including 400A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA.					
		SUB MAIN PANEL BOARD- NORMAL & EMERGENCY FOR OTI HALL				
		INCOMING				
	1	630A TP MCCB 36KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 600/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	160A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	06 Nos.		
	2	100A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	01 No.	1	Each.
20.00	Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-NORMAL & EMERGENCY FOR OTI HALL** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 63A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		

S.#		Description			Qty:	Unit
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	32A TP MCB 6KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	10/16/20 SP MCB 6KA		27 Nos.	6	**Each.**
21.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR TB WARD & GAYNAE.** with Incoming 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .				
		SUB MAIN PANEL BOARD- EMERGENCY FOR TB WARD & GAYNEA				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 400/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	**Each.**
22.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR TB WARD & GAYNAE** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 63A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable. system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.				
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	3	**Each.**
23.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR MALE & FEMALE.** with Incoming 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .				
		SUB MAIN PANEL BOARD- EMERGENCY FOR MALE & FEMALE				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 250/5A	Entes/Camsco/Himel	01 No.		

S.#		Description			Qty:	Unit
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	05 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	01 No.	1	**Each.**
24.00	Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR MALE & FEMALE** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 63A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	5	**Each.**
25.00	Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR PHARMACY**. with Incoming 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA.					
		SUB MAIN PANEL BOARD- EMERGENCY FOR PHARMACY				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 250/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	04 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	01 No.	1	**Each.**
26.00	Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR PHARMACY** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 63A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		

S.#		Description			Qty:	Unit
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	4	Each.
27.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR LABORATORY**. with Incoming 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA				
		SUB MAIN PANEL BOARD- NORMAL FOR LABORATORY				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 250/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	100A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	02 Nos.		
	2	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	03 No.		
	3	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
28.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR LABORATORY** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 63A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC				
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	3	Each.
29.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR EMERGENCY**. with Incoming 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA.				
		SUB MAIN PANEL BOARD- EMERGENCY FOR EMERGENCY				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 250/5A	Entes/Camsco/Himel	01 No.		

S.#		Description			Qty:	Unit
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	03 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	02 Nos.	1	Each.
30.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR EMERGENCY** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 63A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	3	Each.
31.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR CCU & PEEDS. with Incoming** 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .					
		SUB MAIN PANEL BOARD- NORMAL FOR CCU & PEEDS				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 250/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	02 Nos.		
	2	63A TP MCCB 25KA (SPARE)	Terasaki Japan/Legrand/Schneider	01 No.	1	Each.
32.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR CCU & PEEDS** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		

S.#		Description			Qty:	Unit
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	2	Each.
33.00		Supply, installation, testing, commissioning of **SUB MAIN PANEL BOARD-EMERGENCY FOR ADMIN, OPD HALL & DIALYSIS**. with Incoming 250A TP MCCB, Insturement Protection & outgoing circuit breaker, including 250A Main copper bus bar Suitable Size: For Each Phase/Netural & link as per outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Inddor Type, Floor/Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs. Make in Terasaki Japan/Schneider Eu./Mitsubishi Japan/Legarand Eu/ABB Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC and 25KA .					
		SUB MAIN PANEL BOARD- NORMAL FOR ADMIN, OPD HALL & DIALYSIS				
		INCOMING				
	1	250A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Ampere Meter 250/5A	Entes/Camsco/Himel	01 No.		
	3	Ampere Selector Switch	GGT/ANS/Himel	01 No.		
	4	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	5	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	6	Current Trasformer 300/5A	Fico/Metelx	03 Nos.		
	7	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	8	6AControl MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	03 Nos.	1	Each.
34.00		Supply, installation, testing, commissioning of **DISTRIBUTION BOARD DB-EMERGENCY FOR ADMIN, OPD HALL & DIALYSIS** with Incoming From MAIN &SMPB, Indication Lamp, Insturement Protection Fuse, including 100/60A Main copper bus bar/Cable Suitable For Each Phase/Netural & link as per above outgoing circuit breaker, installed in cubicals asambled with SIEMENS, PEMPAK,PEL make. of 16 SWG miled steel sheet fabricated, Indoor Type, Wall Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexibile copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part coverd with safty sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respeCurrent Transformer All above MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50oC.					
		INCOMING				
	1	63A TP MCCB 25KA	Terasaki Japan/Legrand/Schneider	01 No.		
	2	Digital Volt Meter 0~600V	Entes/Camsco/Himel	01 No.		
	3	Volt Selector Switch	GGT/ANS/Himel	01 No.		
	4	Indication Lights. R+Y+B	Terasakil/Schneider	03 Nos.		
	5	6A Control MCB for Instrument Protection.	Terasakil/Schneider	03 Nos.		
		OUTGOING				
	1	10/16/20A SP MCB 6KA	Terasaki Japan/Legrand/Schneider	24 Nos.	2	Each.
C		**LT POWER CABLE.**				
		Supply at site, installation, testing and commissioning of PVC insulated PVC sheathed armoured copper conductor cable 600/1000V grade in prelaid conduits/ trenches or on cable traysas as per routes discussed with site engineer, including supply and installation of all necessary fixing accessories, connections, identification tages, cables lugs properly crimped, at both ends all respect. Actual length of cables installed shall be measured for payment. Actual length of cables shall be measured at site by contractor before placing the order.					
1.00		150mm sq, 4-Core, PVC/PVC Cable.	Pakistan/Newage/Pioneer		85	Mtr.
2.00		120mm sq, 4-Core, PVC/PVC Cable.	Pakistan/Newage/Pioneer		550	Mtr.
3.00		70mm sq, 4-Core, PVC/PVC Cable.	Pakistan/Newage/Pioneer		350	Mtr.
4.00		25mm sq, 4-Core, PVC/PVC Cable.	Pakistan/Newage/Pioneer		850	Mtr.
5.00		16mm sq, 4-Core, PVC/PVC Cable.	Pakistan/Newage/Pioneer		850	Mtr.

S.#		Description	Qty:	Unit
D		**Earthing System**		
		Supply, Installation, Drilling of earth bore 3" (75mm) dia 70 to 80-ft deep or up to permanent water table, back filling ramming, with G.I pipe 50mm dia 14-SWG and tinned spike to be installed in premade bore all G.I pipe accessories like tees bends sockets etc G.I pipe shall be connected to tinned copper spike be installed at bottom of G.I pipe all nuts and bolts & earthing leads consisting of standard electrolytic copper conductor 70mm sq: to be installed in prelaid G.I pipe and connected to tinned copper spike and to test link in man hole and from test link to desired location, earth connecting points consisting of copper plate 300mm longx50mm widex12.5mm thick to be installed, Construction of man hole 450mmx450mm x600mm deep with 225mm thick wall with cement mortar internal plaster 1:4, RCC 100mm thick man hole cover lifting hooks and the following words written with paint on cover "Earting Pit", horizontal and vertical rising copper strip of size 25mm wide and 3mm thick as main circuit protective conductor. Terminating on earthing connection points and also fixed both sides for H.T/L.T/SMPB/DB Panel & Cable tray or in cable ladder as per detail site engineer.		
		a) Earthing system with Bores for body of transformes	4	Each
		b) Earthing system with Bores for neutral of transformers	4	Each
		d) Earthing system with Bores for MAIN L.T. PANEL/MAIN SWITCH BOARD/SUB MAIN PANEL BOARD & DISTRIBUTION BOARD.	5	Each
E		**Circuit Protective Conductor (CPC)**		
		a) 1 core 50mm sq:	150	Mtr.
		b) 1 core 25mm sq:	350	Mtr.
		c) 1 core 6mm sq:	650	Mtr.
		TOTAL		

Executive Engineer
Buildings Division
ATTOCK

PERFECT ELEKTRO MEK
PAKISTAN (PVT.) LIMITED

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: +92-42-3597-8060-63
E-mail: info@pempak.com http://www.pempak.com

Ref.: D/FM/446523/14059
Muharram 3rd , 1444Ah
August 2nd, 2022.

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

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

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 *(As Per Given SLD).*		~~44,564,500.00~~
	Total Amount of Offer (Excluding GST):	**Pak Rs.**	~~44,564,500.00~~
	17% Add GST:	Pak Rs.	~~7,575,965.00~~
	Net Amount of Offer (Including GST):	**Pak Rs.**	~~52,140,465.00~~
Pak Rupees: *Fifty-Two Million One Hundred Forty Thousand Four Hundred Sixty-Five*			

3347550
3347559
5690535
39166535

~~Add 11+ Contr. Profit :- 5735451/-~~
Total :- ~~57875916~~/-

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/Warrantee for the period of one year.
- The prices are valid for 30 days afterwards subject to the reconfirmation
- The components offered are subject to the availability otherwise approved equivalent.
- The standard and latest amended Force Majored clause will be fully applicable throughout the contract.
- The offer is based on the present duties/Taxes structure. Any change will be charged at actual.

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,

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

Executive Engineer
Buildings Division
ATTOCK

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

PERFECT ELEKTRO MEK (PAKISTAN) (PVT.) LIMITED

Quotation for L.V Switchgear.
M/s: The Executive Engineer
Ref: D/FM/446523/14059 dated: 02-08-22

PEMPAK

SCHEDULE OF PRICES FOR LOW VOLTAGE SWITCHGEAR

Project: Revamping of DHQ Hospital Attock

PRICES:

Sr.	Description	Qty.	Rate	Amount
L.V SWITCHGEAR				
01	Synchronization PANEL	01 Set	8,651,500.00	~~8,651,500.00~~
02	Main Switch Board-1000A (For 400KVA T/F-1,2,3)	03 Sets	812,500.00	~~2,437,500.00~~
03	Main Switch Board-1000A (For 630KVA T/F-4)	01 Set	812,500.00	812,500.00
04	LV Panel	01 Set	19,013,000.00	19,013,000.00
05	S.M.P.B-Emergency+Normal (OTI Hall)	01 Set	617,500.00	617,500.00
06	S.M.P.B-Normal (TB Ward+Ganynae)	01 Set	427,500.00	427,500.00
07	S.M.P.B-Normal (Male+Female)	01 Set	450,000.00	450,000.00
08	S.M.P.B-Normal (Pharmacy)	01 Set	381,500.00	381,500.00
09	S.M.P.B-Normal (Laboratory)	01 Set	450,500.00	450,500.00
10	S.M.P.B-Normal (Emergency Ward)	01 Set	450,500.00	450,500.00
11	S.M.P.B-Normal (CCU+Peeds)	01 Set	404,500.00	404,500.00
12	S.M.P.B-Normal (Admin+OPD Hall+Dialysis)	01 Set	404,500.00	404,500.00
13	S.M.P.B-Emergency (TB Ward+Ganynae)	01 Set	367,500.00	367,500.00
14	S.M.P.B-Emergency (Male+Female)	01 Set	390,500.00	390,500.00
15	S.M.P.B-Emergency (Pharmacy)	01 Set	367,500.00	367,500.00
16	S.M.P.B-Emergency (Laboratory)	01 Set	367,500.00	367,500.00
17	S.M.P.B-Emergency (Emergency Ward)	01 Set	367,500.00	367,500.00
18	S.M.P.B-Emergency (CCU+Peeds)	01 Set	321,000.00	321,000.00
19	S.M.P.B-Emergency (Admin+OPD Hall+Dialysis)	01 Set	321,000.00	321,000.00
20	DBs-Emergency+Normal (OTI Hall)	06 Sets	159,500.00	957,000.00
21	DBs-Normal (TB Ward+Ganynae)	05 Sets	121,500.00	607,500.00
22	DBs-Normal (Male+Female)	08 Sets	121,500.00	972,000.00
23	DBs-Normal (Pharmacy)	03 Sets	121,500.00	364,500.00
24	DBs-Normal (Laboratory)	06 Sets	121,500.00	729,000.00
25	DBs-Normal (Emergency Ward)	06 Sets	121,500.00	729,000.00
26	DBs-Normal (CCU+Peeds)	04 Sets	121,500.00	486,000.00
27	DBs-Normal (Admin+OPD Hall+Dialysis)	04 Sets	121,500.00	486,000.00
28	DBs-Emergency (TB Ward+Ganynae)	03 Sets	111,500.00	334,500.00
29	DBs-Emergency (Male+Female)	04 Sets	111,500.00	446,000.00
30	DBs-Emergency (Pharmacy)	03 Sets	111,500.00	334,500.00
31	DBs-Emergency (Laboratory)	03 Sets	111,500.00	334,500.00
32	DBs-Emergency (Emergency Ward)	03 Sets	111,500.00	334,500.00
33	DBs-Emergency (CCU+Peeds)	02 Sets	111,500.00	223,000.00
34	DBs-Emergency (Admin+OPD Hall+Dialysis)	02 Sets	111,500.00	223,000.00
	Total Amount of Offer (Excluding GST):		**Pak Rs.**	~~44,564,500.00~~ 33475500

Total Amount of Offer All Equipment (Excluding GST):		**Pak Rs.**	~~44,564,500.00~~ 33475500

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

Executive Engineer
Buildings Division
ATTOCK

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

***

Quotation for L.V Switchgear.
M/s: The Executive Engineer
Ref: D/FM/446523/14059 dated: 02-08-22

PEMPAK

SCHEDULE OF SPECIFICATION FOR LOW VOLTAGE SWITCHGEAR.

Project: Revamping of DHQ Hospital Attock

L.V 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 confirming to IEC-947-2 to accommodate the given number of circuit components, instruments & Accessories, assembled and wired with Electrolytic Copper Bus bars at 50deg Centigrade and cables as per standard practices and relevant standards duly cleaned down to bare shining metal phosphate and powder painted of color RAL-7032 complete in all respect as per given specifications with your requirement and equipped as under.

01 SYNCHRONIZATION PANEL — **01 SET.**

Sr.	Description of each Component	Make	Model	Quantity
A	**INCOMING FROM 200KVA GEN-1**			
01	400A TP MCCB 36kA	Terasaki/Schneider.	S400CJ	01 No.
02	400A 4P Magnetic Contactor	Terasaki/Schneider.	TC4-400a	01 No.
03	Synchronizing & Load Sharing Module	Deep Sea/Eqv	DSE 8610	01 No.
04	Digital Ampere Meter	Camsco/Entes	96x96mm	01 No.
05	Ampere Selector Switch	GGT/ Camsco	4-Position	01 No.
06	Digital Volt Meter 0~600V	Camsco/Entes	96x96mm	01 No.
07	Volt Selector Switch	GGT/ Camsco	4-Position	01 No.
08	Current Transformer 400/5A	Metelx/Fico	RLC	06 Nos.
09	Phase Indication Light (R+Y+B+OFF+ON)	Himel/ Schneider	LED Type	05 Nos.
10	ON/OFF Push Button	Himel/ Schneider	22mm	02 Nos.
11	Control MCB for Instrument Protection	Terasaki/Schneider.	EPC	03 Nos.
12	Battery and Battery Charger		Imported	01 No.
B	**INCOMING FROM 200KVA GEN-2**			
01	400A TP MCCB 36kA	Terasaki/Schneider.	S400CJ	01 No.
02	400A 4P Magnetic Contactor	Terasaki/Schneider.	TC4-400a	01 No.
03	Synchronizing & Load Sharing Module	Deep Sea/Eqv	DSE 8610	01 No.
04	Digital Ampere Meter	Camsco/Entes	96x96mm	01 No.
05	Ampere Selector Switch	GGT/ Camsco	4-Position	01 No.
06	Digital Volt Meter 0~600V	Camsco/Entes	96x96mm	01 No.
07	Volt Selector Switch	GGT/ Camsco	4-Position	01 No.
08	Current Transformer 400/5A	Metelx/Fico	RLC	06 Nos.
09	Phase Indication Light (R+Y+B+OFF+ON)	Himel/ Schneider	LED Type	05 Nos.
10	ON/OFF Push Button	Himel/ Schneider	22mm	02 Nos.
11	Control MCB for Instrument Protection	Terasaki/Schneider.	EPC	03 Nos.
12	Battery and Battery Charger	Imported	01 No.	
C	**INCOMING FROM 100KVA GEN-3**			
01	400A TP MCCB 36kA	Terasaki/Schneider.	S400CJ	01 No.
02	400A 4P Magnetic Contactor	Terasaki/Schneider.	TC4-400a	01 No.
03	Synchronizing & Load Sharing Module	Deep Sea/Eqv	DSE 8610	01 No.
04	Digital Ampere Meter	Camsco/Entes	96x96mm	01 No.
05	Ampere Selector Switch	GGT/ Camsco	4-Position	01 No.
06	Digital Volt Meter 0~600V	Camsco/Entes	96x96mm	01 No.
07	Volt Selector Switch	GGT/ Camsco	4-Position	01 No.
08	Current Transformer 400/5A	Metelx/Fico	RLC	06 Nos.
09	Phase Indication Light (R+Y+B+OFF+ON)	Himel/ Schneider	LED Type	05 Nos.
10	ON/OFF Push Button	Himel/ Schneider	22mm	02 Nos.
11	Control MCB for Instrument Protection	Terasaki/Schneider.	EPC	03 Nos.
12	Battery and Battery Charger	Imported	01 No.	
D	**INCOMING FROM 100KVA GEN-4**			
01	400A TP MCCB 36kA	Terasaki/Schneider.	S400CJ	01 No.
02	400A 4P Magnetic Contactor	Terasaki/Schneider.	TC4-400a	01 No.
03	Synchronizing & Load Sharing Module	Deep Sea/Eqv	DSE 8610	01 No.
04	Digital Ampere Meter	Camsco/Entes	96x96mm	01 No.
05	Ampere Selector Switch	GGT/ Camsco	4-Position	01 No.
06	Digital Volt Meter 0~600V	Camsco/Entes	96x96mm	01 No.
07	Volt Selector Switch	GGT/ Camsco	4-Position	01 No.
08	Current Transformer 400/5A	Metelx/Fico	RLC	06 Nos.
09	Phase Indication Light (R+Y+B+OFF+ON)	Himel/ Schneider	LED Type	05 Nos.
10	ON/OFF Push Button	Himel/ Schneider	22mm	02 Nos.
11	Control MCB for Instrument Protection	Terasaki/Schneider.	EPC	03 Nos.
12	Battery and Battery Charger	Imported	01 No.	

E	INCOMING FROM 100KVA GEN-5			
01	400A TP MCCB 36kA	Terasaki/Schneider.	S400CJ	01 No.
02	400A 4P Magnetic Contactor	Terasaki/Schneider.	TC4-400a	01 No.
03	Synchronizing & Load Sharing Module	Deep Sea/Eqv	DSE 8610	01 No.
04	Digital Ampere Meter	Camsco/Entes	96x96mm	01 No.
05	Ampere Selector Switch	GGT/ Camsco	4-Position	01 No.
06	Digital Volt Meter 0~600V	Camsco/Entes	96x96mm	01 No.
07	Volt Selector Switch	GGT/ Camsco	4-Position	01 No.
08	Current Transformer 400/5A	Metelx/Fico	RLC	06 Nos.
09	Phase Indication Light (R+Y+B+OFF+ON)	Himel/ Schneider	LED Type	05 Nos.
10	ON/OFF Push Button	Himel/ Schneider	22mm	02 Nos.
11	Control MCB for Instrument Protection	Terasaki/Schneider.	EPC	03 Nos.
12	Battery and Battery Charger	Imported	01 No.	
F	OUTGOING			
01	800A TP MCCB 50kA	Terasaki/Schneider.	S800NJ	02 Nos.

02 MAIN SWITCH BOARD-1000A (For 400KVA T/F-01,T/F-02 & T/F-03) 03 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	Incoming from 400KVA Transformer.			
01	1000A TP MCCB 50KA	Terasaki/Schneider	S1000SE	01 No.
02	Surge Protective Device (SPD) 4P 100KA	DEHN/Eqv.	4P 100KA	01 No.
03	Digital Volt Meter 0~600V	Entes/Schneider	96x96MM	01 No.
04	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
05	Digital Ampere Meter	Entes/Schneider	96x96MM	01 No.
06	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
07	CTs 1000/5	Metelx/Fico	RLC	03 Nos.
08	Phase Indication Lamps. (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
09	6A Control MCB for Instrument Protection.	Terasaki/Schneider	EPC	03 Nos.
10	1000A Copper Bus Bar	PEMPAK		01 Job.

03 MAIN SWITCH BOARD-1000A (For 630KVA T/F-04) 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	Incoming from 630KVA Transformer.			
01	1000A TP MCCB 50KA	Terasaki/Schneider	S1000SE	01 No.
02	Surge Protective Device (SPD) 4P 100KA	DEHN/Eqv.	4P 100KA	01 No.
03	Digital Volt Meter 0~600V	Entes/Schneider	96x96MM	01 No.
04	Volt Selector Switch	GGT/Camsco	4-Position	01 No.
05	Digital Ampere Meter	Entes/Schneider	96x96MM	01 No.
06	Ampere Selector Switch	GGT/Camsco	4-Position	01 No.
07	CTs 1000/5	Metelx/Fico	RLC	03 Nos.
08	Phase Indication Lamps. (R+Y+B)	Schneider/Himel	Led Type	03 Nos.
09	6A Control MCB for Instrument Protection.	Terasaki/Schneider	EPC	03 Nos.
10	1000A Copper Bus Bar	PEMPAK		01 Job.

04 LV Panel 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING From Existing T/F-1 400KVA			
01	1000A 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	96mmX96mm	01 No.
06	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
07	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
08	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
09	Current Transformer 1000/5A	Metelx/Fico	RLC	03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	INCOMING From Existing T/F-2 400KVA		01 SET.	
01	1000A 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	96mmX96mm	01 No.
06	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
07	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
08	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.

09	Current Transformer 1000/5A	Metelx/Fico	RLC	03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
C	**OUTGOING**		**01 SET.**	
01	400A TP MCCB 25KA	Terasaki/Schneider	E 400NF	06 Nos.
02	400A TP MCCB 25KA (Spare)	Terasaki/Schneider	E 400NF	01 No.
03	160A TP MCCB 36KA (Spare)	Terasaki/Schneider	S 250NJ	01 No.
04	100A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.
D	**200 KVAR PFI PLANT**		**01 SET.**	
01	Power Factor Capacitor 25KVAr.	Enerlux/Eqv.	PRT.4425	04 Nos.
02	Power Factor Capacitor 50KVAr.	Enerlux/Eqv.	PRT.4450	02 Nos.
03	Magnetic contactor 50A AC3 for 25KVAR	Terasaki/Schneider	TC-50a	04 Nos.
04	Magnetic contactor 105A AC3 for 50KVAR	Terasaki/Schneider	TC-100a	02 Nos.
05	HRC Fuses with bases 63A	DF Elec/eqv.	Double Zero	12 Nos.
06	HRC Fuses with bases 125A	DF Elec/eqv.	Double Zero	06 Nos.
07	Reactive Power Controller. 06-Steps.	Entes/Eqv.	RGI	01 No.
08	ON/OFF Push Button.	Terasaki/Schneider	22MM	12 Nos.
09	ON indication.	Terasaki/Schneider	22MM	06 Nos.
10	Auxiliary Contactor (4NO+4NC).	Togami/Schneider/Ecv.	AK-8JS44	02 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
12	Current Transformer 1000/5A	Fico/Metelx	RLC	01 No.
13	Auto/Manual Switch.	GGT/Camsco	3 Position	01 No.
14	Surge Suppressors.	PEMPAK.		18 Nos.
15	Exhaust Fan with Dust Cassettes.	Imported.	220VAC	01 No.
16	Temperature Regulator 0~50c	Imported.	220VAC	01 No.
E	**BUS COUPLER-1,2,3**		**03 SETs.**	
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 (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
06	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
F	**INCOMING From Load Sharing Panel (800A MCCB)**		**01 SET.**	
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	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
06	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
07	Digital Ampere Meter 0~800A	Entes/Camsco	96mmX96mm	01 No.
08	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
09	Current Transformer 800/5A	Metelx/Fico	RLC	03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
G	**OUTGOING**		**01 SET.**	
01	250A TP MCCB 25KA	Terasaki/Schneider	E 250SF	06 Nos.
02	630A TP MCCB 36KA (Spare)	Terasaki/Schneider	S 630CF	01 No.
03	250A TP MCCB 25KA (Spare)	Terasaki/Schneider	E 250SF	02 Nos.
H	**INCOMING From 400KVA Existing T/F-3**		**01 SET.**	
01	1000A 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	96mmX96mm	01 No.
06	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
07	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
08	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
09	Current Transformer 1000/5A	Metelx/Fico	RLC	03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
I	**INCOMING From 630KVA Existing T/F-4**		**01 SET.**	
01	1000A 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	96mmX96mm	01 No.
06	Volt Selector Switch	GGT/Camsco	4 Position	01 No.

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07	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
08	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
09	Current Transformer 1000/5A	Metelx/Fico	RLC	03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
J	**OUTGOING**		01 SET.	
01	400A TP MCCB 25KA	Terasaki/Schneider	E 400NF	06 Nos.
02	630A TP MCCB 36KA	Terasaki/Schneider	S 630CF	01 No.
03	100A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.
04	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.
K	**200 KVAR PFI PLANT**		01 SET.	
01	Power Factor Capacitor 25KVAr.	Enerlux/Eqv.	PRT.4425	04 Nos.
02	Power Factor Capacitor 50KVAr.	Enerlux/Eqv.	PRT.4450	02 Nos.
03	Magnetic contactor 50A AC3 for 25KVAR	Terasaki/Schneider	TC-50a	04 Nos.
04	Magnetic contactor 105A AC3 for 50KVAR	Terasaki/Schneider	TC-100a	02 Nos.
05	HRC Fuses with bases 63A	DF Elec/eqv.	Double Zero	12 Nos.
06	HRC Fuses with bases 125A	DF Elec/eqv.	Double Zero	06 Nos.
07	Reactive Power Controller. 06-Steps.	Entes/Eqv.	RGI	01 No.
08	ON/OFF Push Button.	Terasaki/Schneider	22MM	12 Nos.
09	ON indication.	Terasaki/Schneider	22MM	06 Nos.
10	Auxiliary Contactor (4NO+4NC).	Togami/Schneider/Eqv.	AK-8JS44	02 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
12	Current Transformer 1000/5A	Fico/Metelx	RLC	01 No.
13	Auto/Manual Switch.	GGT/Camsco	3 Position	01 No.
14	Surge Suppressors.	PEMPAK.		18 Nos.
15	Exhaust Fan with Dust Cassettes.	Imported.	220VAC	01 No.
16	Temperature Regulator 0~50c	Imported.	220VAC	01 No.
L	**INCOMING From Load Sharing Panel (800A MCCB)**		01 SET.	
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	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
06	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
07	Digital Ampere Meter 0~800A	Entes/Camsco	96mmX96mm	01 No.
08	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
09	Current Transformer 800/5A	Metelx/Fico	RLC	03 Nos.
10	Indication Lights (R+Y+B+ON+OFF)	Terasaki/Schneider	Led Type	05 Nos.
11	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
M	**OUTGOING**		01 SET.	
01	250A TP MCCB 25KA	Terasaki/Schneider	E 250SF	06 Nos.
02	250A TP MCCB 25KA (Spare)	Terasaki/Schneider	E 250SF	02 Nos.

05 S.M.P.B-Emergency+Emergency (OTI HALL). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	630A TP MCCB 36KA	Terasaki/Schneider	S 630CF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 600/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	**OUTGOING**			
01	160A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	06 Nos.
02	100A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.

06 S.M.P.B-Emergency (TB Ward+Gaynae). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.

06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	05 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

07 S.M.P.B-Emergency (Male+Female). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	08 Nos.
02	100A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

08 S.M.P.B-Emergency (Pharmacy). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	03 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

09 S.M.P.B-Emergency (Laboratory). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	06 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

10 S.M.P.B-Emergency (Emergency Ward). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	06 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

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11 S.M.P.B-Emergency (CCU+Peeds). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	04 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

12 S.M.P.B-Emergency (Admin+OPD Hall+Dialysis). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	400A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 400/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	100A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	04 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

13 S.M.P.B-Emergency (TB Ward+Gayae). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING.			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	03 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

14 S.M.P.B-Emergency (Male+Female). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	05 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.

15 S.M.P.B-Emergency (Pharmacy). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.

Sr.	Description of Component	Make	Model	Quantity
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	04 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.

16 S.M.P.B-Emergency (Laboratory). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	03 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

17 S.M.P.B-Emergency (Emergency Ward). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	03 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	02 Nos.

18 S.M.P.B-Emergency (CCU+Peeds). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	02 Nos.
02	63A TP MCCB 25KA (Spare)	Terasaki/Schneider	S 160SCF	01 No.

19 S.M.P.B-Emergency (Admin+OPD Hall+Dialysis). 01 SET.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	250A TP MCCB 25KA	Terasaki/Schneider	E400NF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Digital Ampere Meter	Entes/Camsco	96mmX96mm	01 No.
05	Ampere Selector Switch	GGT/Camsco	4 Position	01 No.
06	Current Transformer 300/5A	Metelx/Fico	RLC	03 Nos.
07	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
08	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S 160SCF	03 Nos.

PEMPAK

20 DBs-Emergency+Emergency (OTI Hall). 06 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	160A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	27 Nos.

21 DBs-Emergency (TB Ward+Gaynae). 05 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

22 DBs-Emergency (Male+Female). 08 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

23 DBs-Emergency (Pharmacy). 03 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
03	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

24 DBs-Emergency (Laboratory). 06 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

25 DBs-Emergency (Emergency Ward). 06 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

26 DBs-Emergency (CCU+Peeds). 04 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

27 DBs-Emergency (Admin+OPD Hall+Dialysis). 04 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	100A TP MCCB 10KA	Terasaki/Schneider	E100SF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	32A TP MCB 6KA	Terasaki/Schneider	EPC	03 Nos.
02	16/20A SP MCB 6KA	Terasaki/Schneider	EPC	18 Nos.

28 DBs-Emergency (TB Ward+Gaynae). 03 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

29 DBs-Emergency (Male+Female). 05 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

30 DBs-Emergency (Pharmacy). 04 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	INCOMING			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	OUTGOING			

01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

31 DBs-Emergency (Laboratory). 03 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	**OUTGOING**			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

32 DBs-Emergency (Emergency Ward). 03 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	**OUTGOING**			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

33 DBs-Emergency (CCU+Peeds). 02 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	**OUTGOING**			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

34 DBs-Emergency (Admin+OPD Hall+Dialysis). 02 SETs.

Sr.	Description of Component	Make	Model	Quantity
A	**INCOMING**			
01	63A TP MCCB 25KA	Terasaki/Schneider	S160 SCF	01 No.
02	Digital Voltmeter 0~600 V	Entes/Camsco	96mmX96mm	01 No.
03	Volt Selector Switch	GGT/Camsco	4 Position	01 No.
04	Indication Lights (R+Y+B)	Terasaki/Schneider	Led Type	03 Nos.
05	6A Control MCB for Protection	Terasaki/Schneider	EPC	03 Nos.
B	**OUTGOING**			
01	10/16/20A SP MCB 6KA	Terasaki/Schneider	EPC	24 Nos.

Notes:

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

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

Executive Engineer
Buildings Division
ATTOCK

Engr. Ahmed Fawad
Manager Marketing
0345-400-9981

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:LO22010084
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2025-2026		2026-2027		2027-2028		2028-2029		2029-2030	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A05270**-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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

Grant Number: Government Buildings - (PC12042)
LO NO:LO22010084
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2025-2026		2026-2027		2027-2028		2028-2029		2029-2030	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	**A12403**-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	**A05270**-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

8. Annual Operating and Maintenance Cost after Completion of the Project

The Annual operating and maintenance cost after completion of the project will be borne by the concerned District Health Authority (DHA) as well as Primary and secondary healthcare Department, Lahore.

9. DEMAND AND SUPPLY ANALYSIS

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

10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION

10.2 FINANCIAL PLAN DEBT INFORMATION

undefined

10.3 FINANCIAL PLAN GRANT INFORMATION

Attached.

FINANCIAL PLAN AND MODE OF FINANCING

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

Revenue Side:

(Rs.in Million)

	FY 2021-22	FY 2022-23
Funds Released	**7.980**	**11.936**
Utilization	**6.499**	**2.050**

Capital Side:

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

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

10.4 WEIGHT COST OF CAPITAL INFORMATION

undefined

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

11.3 SOCIAL BENEFITS WITH INDICATORS

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

11.3.1 SOCIAL IMPACT:

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

11.2 ENVIRONMENTAL IMPACT ANALYSIS

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

11.3 PACT ANALYSIS

undefined

11.4 ECONOMIC ANALYSIS

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

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

11.5 FINANCIAL ANALYSIS

PROJECT BENEFITS AND 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

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

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

Programme for Revamping of all 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 Health Management Structure is available in PC-I

14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

15. CERTIFICATE

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

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17. RELATION WITH OTHER PROJECTS