



PC-1

Balance Work of Revamping of THQ Hospital Kot Addu

ORIGINAL APPROVED COST	PKR Million. 84.666/-
ORIGINAL APPROVED GESTATION	43 Months Till June 2025
APPROVAL FORUM	DDWP (DDWP)

1. NAME OF THE PROJECT

Balance Work of Revamping of THQ Hospital Kot Addu

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. MUZAFFARGARH

2.2. TEHSIL(S)

I. KOT ADDU

3. AUTHORITIES RESPONSIBLE FOR

3.1. SPONSORING AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.2. EXECUTION AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.3. OPERATIONS AND MAINTENANCE AGENCY

- PRIMARY AND SECONDARY HEALTH CARE

3.4. CONCERNED FEDERAL MINISTRY

- NATIONAL HEALTH SERVICES, REGULATIONS AND COORDINATION

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

4. PLAN PROVISION

Sr #	Description
1	Source of Funding: Scheme Listed in ADP CFY
2	Proposed Allocation: 0.000
3	GS No: 5373
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

Project objectives and its relationship with Sectorial Objectives and Components

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

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

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

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

5.1. Brief Description / Background

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

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

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

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

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

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

C) External Electrification

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

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

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

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

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

Total area of the THQ Hospital Kot Adu :	46,129 SFT
Area completed:	32,207 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 grooves can be prevented. Moreover, to make the C.T. Scan room and X-Ray rooms radio-resistant and to keep the patients away from the harm of rays, interventions are taken in X-ray rooms and C.T. Scan regarding provision of lead lining in walls, ceiling and floor.

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

5.3.2.3 Aluminum doors and windows

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

5.3.2.4 Improvement of washroom blocks

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

5.3.2.5 Fire and theft security

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

5.3.3 Medical Infrastructure Development

Includes establishment of new facilities which are as follows:

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

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

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

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

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

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

5.3.3.1 ICU

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

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

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

5.3.3.2 CCU

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

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

5.3.3.3 DIALYSIS UNIT

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

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

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

5.3.3.4 BURN UNIT

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

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

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

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

5.4.1 EMERGENCY DAPARTMENT:

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

5.4.2 General Overview of Emergency Department

In any hospital, the most important and critical area is its emergency block. Specially, if hospital is situated on a highway where there is a huge flux of rapidly moving traffic which can be a major source of 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/stretchers way for entrance, podium and platform for wheel chairs are proposed in this program for facilitation of patients. Portico is a small structure constructed outside the covered area consisting of four or two columns carrying a slab or roof over it. This portico is constructed in this program outside the emergency department to provide a shade for the ambulance or any other vehicle carrying the patient. With presence of this portico, it will facilitate the patient to transfer it from ambulance to the department under a shade so that it provides resistance against the rain or other weathering effects.

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

5.4.5 General Building Interventions:

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

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

5.5 Introduction of IT-based solutions

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

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

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

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

- MLC portal

5.6 MONITORING AND QUALITY ASSURANCE (PROCESS INTERVENTIONS)

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

5.6.1 MSDS (Minimum Service Delivery Standards)

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

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

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

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

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

MSDS implementation is a complex procedure. Because it requires

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

The PDSA cycle

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

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

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

5.6.2 Supply of missing Biomedical and non-biomedical equipment

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

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

- With the addition of necessary biomedical equipment like CT Scan/X-Ray/Ultrasound and Color Doppler, Burn Unit equipment, ICU/CCU equipment, Ventilators, Medical Gas Pipeline System and Operation Theaters etc. hospital clinical staff and administration is able to provide better healthcare to the patients' way beyond the limits prior to revamping.
- Due to availability of this necessary biomedical equipment coupled with trained staff, the load on specialized healthcare hospitals has greatly reduced. The hustle and bustle of general public (especially rural) faced due to travelling towards far furlong specialized healthcare hospitals has reduced.
- Lifesaving biomedical equipment for instance Emergency Equipment, Operation theaters equipment has contributed in saving many lives due to availability of the said equipment and this contribution is still going on.
- Non availability of this equipment was enforcing the public for private and costly treatments, which was resulting into huge financial impact on public. The availability of these services at government rates has beneficial impact on public.
- The provision of non-biomedical equipment has facilitated the public, patients and staff largely e.g. Air Conditioners, Office Furniture, Benches, Ceiling fans and generators etc.
- The provision of non-biomedical equipment e.g. waste bin sets, bed sheets, blankets etc. has contributed towards overall hospital cleanliness which has reduced the disease hotspots of hospitals.

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

5.7. Electronic Medical Record (EMR) and QMS

5.7.1 Queue Management System (QMS)

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

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

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

The system manages the patients load, organizes the patient's queues in an adequate manner and gives them the ease in waiting area; and they will be examined gracefully by doctors at their turn. Basic information of the patient is also linked with its ticket, being taken at the first counter. This will help established a

unique ID against each patient. This will also lead to the establishment of Electronic Medical Record. The Process flow of Queue Management System at DHQ is given as follows:

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

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

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

1. Same token number will be used at all the counters and patient will be getting the ticket from ticketing machine only once at the time of entry.
2. QMS will cater for missed, skipped or delayed patient at any counter.

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

5.7.2 Public Address System

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

5.7.3 CCTV System

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

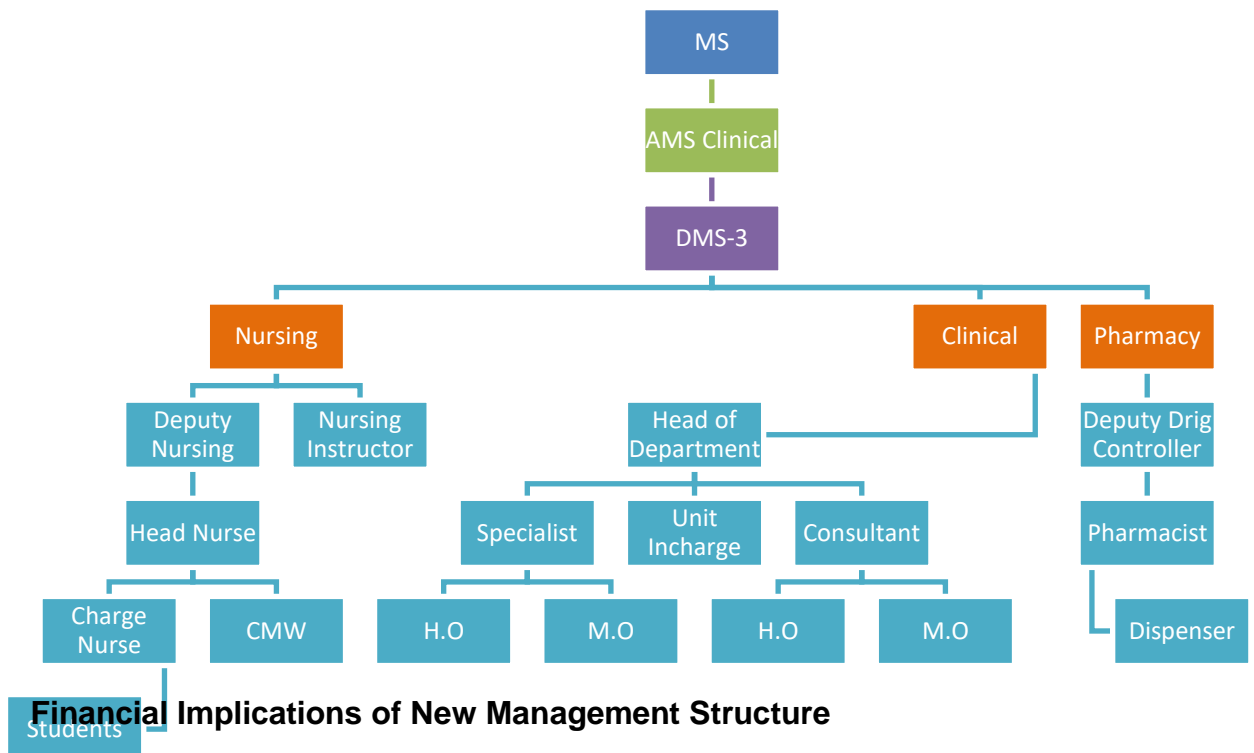
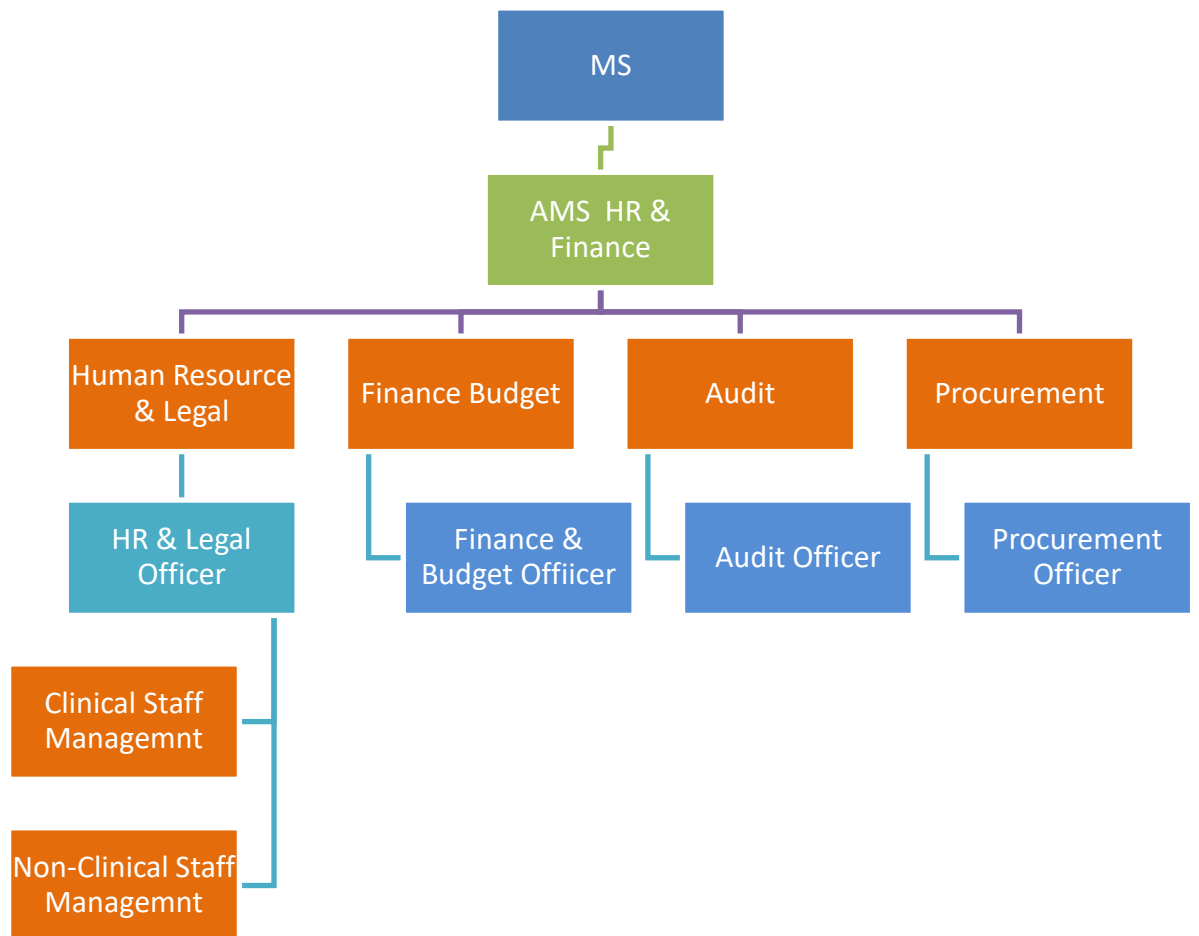
5.7.4 EMR and Networking

Establishment of network infrastructure, establishing a central data center, connectivity of different building through fiber, are also the major components of the revamping project in terms of ICT. This will including provision of networking point at all nursing stations and important areas where entries regarding patients' needs to be made e.g. Radiology/Pathology, Indoor, outdoor etc. This will serve as backbone to implement the Electronic Medical Record System in the Hospital which has the key feature of generating Unique Medical Record Number for each patient.

This MR number will serve as an identity for patients during their treatment, retrieval of records and for decision making.

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

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



Financial Implications of New Management Structure

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

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

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

Name of Post	No. of Employees	Original Pay package approved		Revised Pay package	
		Per Month Salary	Salary for One Year	Per Month Salary	Salary for One Year
ADMIN OFFICER	1	80,000	960,000	105,000	1,260,000
HUMAN RESOURCE OFFICER	1	80,000	960,000	105,000	1,260,000
IT/STATISTICAL OFFICER	1	80,000	960,000	105,000	1,260,000
FINANCE & BUDGET OFFICER	1	80,000	960,000	105,000	1,260,000
AUDIT OFFICER	1	80,000	960,000	105,000	1,260,000
PROCUREMENT OFFICER	1	80,000	960,000	105,000	1,260,000
LOGISTICS OFFICER	1	80,000	960,000	105,000	1,260,000
BIOMEDICAL ENGINEER	1	80,000	960,000	105,000	1,260,000
QUALITY ASSURANCE OFFICER	1	80,000	960,000	105,000	1,260,000
DATA ENTRY OPERAOTOR (DEO)	4	35,000	1,680,000	44,000	2,112,000

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

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

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

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

5.8.2.1 HR / Legal Officer

Shall be responsible for following:

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

Eligibility 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

Eligibility Criteria

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

5.8.2.3 Audit Officer

Shall be responsible for following functions:

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

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

Eligibility Criteria

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

5.8.2.4 Procurement Officer

Shall be responsible for following functions:

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

Eligibility Criteria

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

5.8.2.5 ADMIN OFFICER AND ASSISTANT ADMIN OFFICER

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

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

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

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

Eligibility Criteria (Admin Officer)

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

Eligibility Criteria (Assistant Admin Officer)

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

5.8.2.6 IT/STATISTICAL OFFICER

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

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

Eligibility Criteria

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

5.8.2.7 QUALITY ASSURANCE OFFICER

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

Eligible Criteria

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

OR

16 years education along with Post graduate diploma in Total Quality Management/ Post graduate diploma in Health Safety and Environmental Management System / Post graduate diploma in Healthcare and Hospital Management / Quality Assurance or equivalent.

2. Minimum 1 year post degree relevant professional experience.

5.8.2.8 BIO-MEDICAL ENGINEER

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

Eligible Criteria

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

5.8.2.9 LOGISTICS OFFICER

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

Eligible Criteria

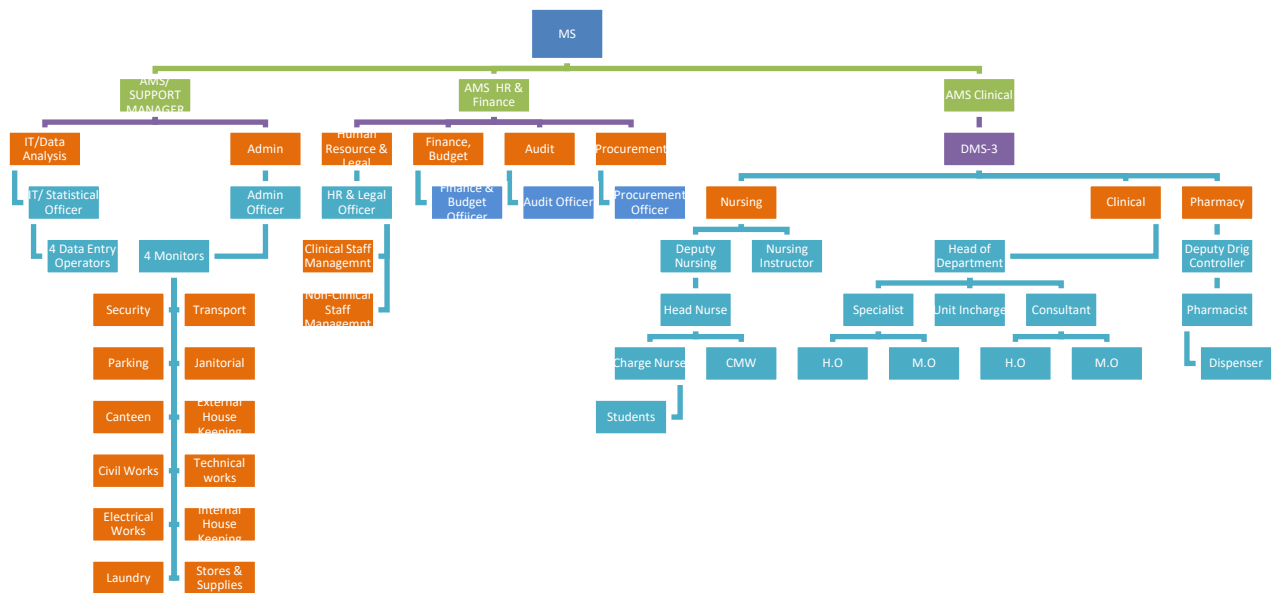
1. M.Sc. Supply Chain Management/ MBA or Equivalent.
2. One year experience in Supply Chain, logistics, fleet, warehousing and inventory management, clearing and forwarding.

5.8.2.10 Data Entry Operators (DEO)

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

Eligible Criteria

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



Financial Implications of New Management Model

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

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

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

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

5.9 RELATIONSHIP WITH SECTORAL OBJECTIVES

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

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

5.10 PATIENT MANAGEMENT PROTOCOL

5.10.1 EMERGENCY:

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

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

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

5.10.2 O.P.D:

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

5.10.3 DEATH OR END OF LIFE MANAGEMENT.

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

modifications are decided in the relevant department for each patient.

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

5.10.4 INVENTORY CONTROL SYSTEM

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

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

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

5.10.5 PROJECT MONITORING COMMITTEE

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

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

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

6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT

attached

6. DESCRIPTION, JUSTIFICATION AND TECHNICAL PARAMETERS

The scheme has been estimated on face of the factual basic requirements and if needed, alterations and has been quoted in this PC-I. The Population of Tehsil Kot Adu District Muzzafargarh is more than 0.270 million. The area of the THQ Hospital Kot Adu District Muzzafargarh 393040 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. 101.630 million to Rs. 47.360 million due to few changes in the scope and MRS rates (2nd Bi-annual 2022).

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

Name of Posts	60 th PDWP Meeting		
	PPS Assigned	Permissible Range (PKR) & Annual increment	Approved Pay Package

HR & Legal Officer, IT & Statistical Officer, Admin Officer, Procurement Officer, Finance & Budget Officer, Logistics Officer, Quality Assurance Officer, Audit Officer and Biomedical Engineer	PPS-6	75,000-105,000 (8% annual incr.)	75,000
Assistant Admin Officer	PPS-5	50,000-75000 (10% annual incr.)	50,000
Data Entry Operator	PPS-3	35,000-55,000 (10% annual incr.)	35,000

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

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

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

given

below



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 Sheikhpura
- 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:LO21010557
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:LO22010097
A/C To be Credited:Account-I

PKR Million

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

1. **Building:** Renovation of existing building will be required. In this regard an estimates has been prepared from the Punjab Buildings department (C&W Department) and attached with the PC-I.
2. **Human resource:** Human resource is required for implementation of project – Provision of salaries of staff of New Management Structure (NMS) working in the said hospital till the vacation of stay by the honorable Lahore High Court, Lahore and completion of conversion of these posts to non-development mode.

Abstract of Cost

Name of THQ Hospital	Kot Addu					
Scope of work	Original			1st Revised		
	Capital	Revenue	Total	Capital	Revenue	Total
Capital component						
Internal Development	48.194	0.000	48.194	28.513	0.000	28.513
External Development	52.482	0.000	52.482	18.847	0.000	18.847
Water filtration plant	0.954	0.000	0.954	0.000	0.000	0.000
Total Capital Component	101.630	0.000	101.630	47.360	0.000	47.360
Revenue component						
Human resource (HR) plan	0.000	17.520	17.520	0.000	37.306	37.306
Total Revenue component	0.000	17.520	17.520	0.000	37.306	37.306
Total	101.630	17.520	119.150	47.360	37.306	84.666
Grand Total	101.630	17.520	119.150	47.360	37.306	84.666

Human Resource Model of THQ Hospital

	Original				1st Revised				
NAME OF POST	No. of Employees	Per Month Salary	Per Month Salary for all Person	Salary for Two Years	No. of Employees	Project Pay Scale	Per Month Salary	Per Month Salary for all Person	Salary for Two Years
ADMIN OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
HUMAN RESOURCE/LEGAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
IT/STATISTICAL OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
FINANCE & BUDGET OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
PROCUREMENT OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
DATA ENTRY OPERAOTOR (DEO)	2	35,000	70,000	1,680,000	2	3	44,000	88,000	2,728,000
QUALITY ASSURANCE OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
LOGISTICS OFFICER	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
ASSISTANT ADMIN OFFICER	2	50,000	100,000	2,400,000	2	5	70,000	140,000	4,340,000
Sub Total of HR Model	11		730,000	17,520,000	11	50	849,000	963,000	29,853,000
				17.520					29.853
Utilization of HR Component				7.453					
									37.306

From

The Chief Engineer,³
Punjab Buildings Department,
South Zone, Lahore.

To

The Secretary,
Government of the Punjab,
Primary & Secondary Healthcare Department,
Lahore.


Memo No.76-Dev/2014/ **3131** /Dev. Dated 10.11.2022

Subject: **REVISED ROUGH COST ESTIMATE FOR THE WORK**
“PROGRAMME REVAMPING OF ALL THQ HOSPITAL IN
PUNJAB ONE AT THQ HOSPITAL KOT ADU DISTRICT
MUZAFFARGARH” ADP NO.658 FOR THE YEAR 2022-23.

47.360 (M) Please find enclosed copy of Revised Rough Cost Estimate amounting to
Rs.76.865(M) duly vetted by the Chief Engineer for arranging Revised Administrative Approval.

The Revised Rough Cost Estimate has been prepared on the basis of rates meant for
2nd Bi-annual 2022.

DA/As Above.


DEPUTY DIRECTOR-II
for Chief Engineer, South Zone,
Punjab Buildings Department, Lahore.

Endst: No.

A copy is forwarded for information to:-
/Dev, Dated 11.2022.

- 1 The Superintending Engineer, Buildings Circle, D.G.Khan for information with reference to his letter No.1024/DB, dated 07.11.2022.
- 2 The Executive Engineer, Buildings Division, Muzaffargarh.
- 3 The Chief Draftsman (Local).

DA/Nil.

DEPUTY DIRECTOR-II
for Chief Engineer, South Zone,
Punjab Buildings Department, Lahore.

RECEIVED & ENTERED	
Duty No. 6190	
Date: 10-11-22	
PMU & C: PMU, P&SHD	
Deputy PD	
Finance & Admin	
Procurement	
Outsourcing	
Infrastructure	
Planning & HR	
ICT	
Operations	
Health	
Legal	
I & C	
BERG	
MARKING	
SIGNATURES	



BUILDINGS CIRCLE
DERA GHAZI KHAN

BUILDINGS DIVISION
MUZAFFARGARH

REVISED ROUGH COST ESTIMATE FOR THE
WORK "REVAMPING OF TEHSIL HEAD
QUARTER HOSPITAL KOT ADU DISTRICT
MUZAFFARGARH"

47.360 (M)
~~76.865~~ (M)

Amount Rs : 77.564 (M)

BUILDINGS SUB DIVISION KOT ADU

PROVINCE:-

PUNJAB

CIRCLE:

BUILDINGS CIRCLE
DERA GHAZI KHAN

DIVISION:

BUILDINGS DIVISION
MUZAFFARGARH

SUB DIVISION:

BUILDINGS SUB DIVISION
KOT ADU

NAME OF WORK:

REVISED ROUGH COST ESTIMATE FOR
THE WORK "REVAMPING OF TEHSIL
HEAD QUARTER HOSPITAL KOT ADU
DISTRICT MUZAFFARGARH"

MAJOR HEAD:

MINOR HEAD:

Amount:

47.360
Rs : ~~77.564~~ (M)

REVISED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF TEHSIL HEAD
QUARTER HOSPITAL KOT ADU DISTRICT MUZAFFARGARH"

HISTORY:

The scheme was Administratively Approved by the Health Department Amounting to Rs. 101.630 (M). The client department did not release the fund and now client department has changed the scope. The Joint visit was conducted with the project management unit (Primary & Secondary Health Care Department) team and representative of Communication and Works Department to finalise the scope of work. *the estimate has been framed Rs. 40.5 lakhs for the work. It is approved by the Chief Architect Punjab vide letter No. C.A/DAI/DDA-1/1456-64.*

Hence, this Revised Rough Cost estimate Rs : 77.564 (M) is prepared keeping in view the new scope provided by the client department on the basis of fresh MRS rates for arranging Revised administrative approval and release of funds from the competent authority.

DESIGN AND SCOPE:

1	Revamping of Old Building (Eye Ward)	1 Job
2	Revamping of Old Building (Operation Theatre)	1 Job
3	Revamping of Old Building (Emergency Ward)	1 Job
4	Sewerage & Water Supply	1 Job
5	Patch Work of existing Road	1 Job
6	Construction of Boundary Wall 9" Thick 8' Height	3886 Job
7	Gate and Gate Pillar	1 Job

DESIGN:

The work will be got executed in accordance with the Buildings Department's specifications and with consultation of the Client Deptt., after observing all codal formalities.

SPECIFICATION/ CARRYING OUT OF WORK:

The work will be carried out according to building department specifications with latest edition through the approved contractors of C & W Department after calling tenders on competitive grounds.

RATES:

The estimate is based on Plinth Area Rates 2nd BI-Annual 1st July to 31st December 2022 for Muzaffargarh District circulated by the Finance department, Punjab.

LAND:

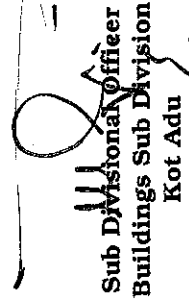
Land will be provided by the Client Department.

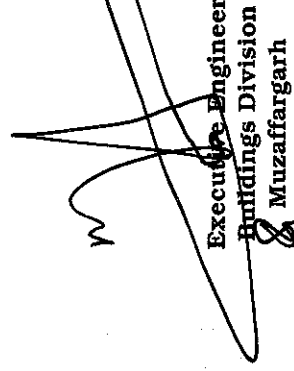
COST:

47.360
The total cost of this project comes to **Rs : 77.564 (M)**

TIME LIMIT:

It will take about (24) months to complete the work from the date of actual commencement of the work on the provision of funds.


Sub Divisional Officer
Buildings Sub Division
Kot Adu


Executive Engineer
Buildings Division
Muzaffargarh



Primary & Secondary
Healthcare Department

GOVERNMENT OF THE PUNJAB
Dated Lahore the 09-11-2021

ORDER

No. PO(D-II)Revamping/P-1/21: Consequent upon the decision of Departmental Development Sub Committee (DDSC), in its meeting held on 29.09.2021, the Governor of the Punjab is pleased to accord Administrative Approval of 12 sub-schemes under block scheme titled "**Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab**" at cost mentioned against each scheme, with gestation period from 01.07.2021 to 30.06.2023:

Sr. No.	Sub Scheme Title	Rs. in Millions		
		Approved Cost		Total
		Capital Component	Revenue Component	
1	Balance work of Revamping of DHQ Hospital Khanewal	49.823	25.440	75.263
2	Balance work of Revamping of DHQ Hospital Layyah	43.557	25.440	68.997
3	Balance work of Revamping of DHQ Hospital Rajanpur	49.999	25.440	75.439
4	Balance work of Revamping of DHQ Hospital Mianwali	0.000	25.440	25.440
5	Balance work of Revamping of DHQ Hospital Khushab	40.912	25.440	66.352
6	Balance work of Revamping of THQ Hospital Chishtian, District Bahawalnagar	30.326	17.520	47.846
7	Balance work of Revamping of THQ Hospital Shujabad, District Multan	136.550	17.520	154.070
8	Balance work of Revamping of THQ Hospital Mian Channu	42.160	21.540	63.700
9	Balance work of Revamping of DHQ Hospital Vehari	197.408	27.560	224.968
10	Balance work of Revamping of DHQ Hospital Lodhran	72.453	25.440	97.893
11	Balance work of Revamping of THQ Hospital Burewala, District Vehari	90.722	17.520	108.242
12	Balance work of Revamping of DHQ Hospital Muzafargarh	143.775	25.440	169.215

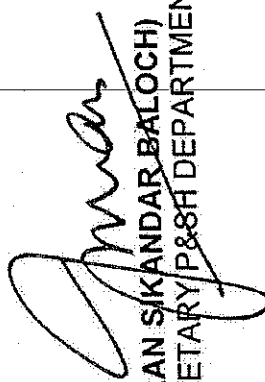
2. The expenditure involved will be debitable under the following heads of account.

Capital Component

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

Revenue Component


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


(IMRAN SIKANDAR BALOCH)
SECRETARY P&SH DEPARTMENT

NO. & DATE EVEN:

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

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


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



MINUTES OF MEETING

Communication & Works Department

Meeting Title/Project: Kick-off Meeting THQ Kot Addu with PMU Team

Date: 9/11/2021 Time: 02:00

Location: THQ Hospital Kot Addu

ATTENDEES

NAME	Designation
Mr. Farhan Waheed	Director Infrastructure, PMU
Mr. Hamza Naseem	Project Manager (Civil), PMU
Mr. Adnan Iqbal	Project Officer (Electrical), PMU
Mr. Waqar	Sub-Divisional Officer (building), C&W

MINUTES

Sr. #	AGENDA ITEM	Remarks
1	Meeting Agenda: <ol style="list-style-type: none">1. Introduction of Teams2. Generalized Site Decisions3. Specified Instructions Area-wise4. Priority of work	
2	1. Introduction: <p>Mr. Farhan Waheed, Director Infrastructure, led the kick-off meeting for THQ Kot Addu. He introduced his team to C&W and Hospital staff. Mr., Sub Engr. C&W, introduced the teams to PMU Health Department and brief the purpose of Visit.</p> <p>He also informed the Representative of C & W that any civil or electrical work in already revamped areas should not be executed. In case if any such work is required to be done in already revamped area by IDAP, it must be carried out after written approval from PMU.</p>	
3	2. Generalized Site Decision: 2.1 Internal Development(To be Executed in Non-Revamped Areas) <ol style="list-style-type: none">a. Flooring and Skirting/Dado<p>Flooring and dado should be fixed in areas where existing tiles are damaged/ broken.</p>b. Paint<p>Paint work should be done in all areas and on all doors (exceptions are mentioned in following points)</p>c. Windows<p>All damaged windows should be replaced/repared</p>d. Doors<p>All damaged doors should be replaced/repared or existing wooden doors should be repainted.</p>e. UPVC doors<p>All washrooms (used for patient/attendants) should be replaced with UPVC doors.</p>f. Seepage Mitigation<p>All the areas facing seepage issues need to be assessed to locate the seepage source and necessary action may be taken accordingly.</p>g. Water Proofing<p>Water Proofing on entire Hospital Clinical building and cleaning all blockages of storm water lines. Water proofing of brick tiles should be proposed to avoid extra load on Hospital Building for its structural stability.</p>	



MINUTES OF MEETING

Communication & Works Department

	<p>a. Sewerage System C&W to assess the existing sewerage system and worked accordingly as per requirement.</p> <p>b. Water Supply System Assessment of existing water supply system and rectification required to be done as per Hospital Requirement.</p> <p>c. Water supply system from Filtration Plant Moreover, location for Water points/connection for drinking water in hospital building will be provide by hospital administration to C&W and water supply line will lay accordingly.</p> <p>d. Roads Existing Road conditions need to be re-assessed prior starting execution.</p>	
	<p>3. Specified Instructions Area-wise The following general decision were taken for THQ Kot Addu</p> <p>3.1 Internal Development</p> <p>a. OT Block</p> <ul style="list-style-type: none"> • Entrance and Exit doors in corridor of labor room to be replaced with Aluminum doors. • All Floor tiles to be changed in labor room. • Wall/dado tiles to be fixed in corridor of labor room up to a height of 4 ft. • Grills inside windows to be changed as per grills fixed in already revamped areas. • Entrance door of dressing room needs to be changed. • All existing internal windows need to be replaced with Aluminum windows. • All flooring and wall/dado tiles need to be changed • Three existing entrance doors of OT needs to be replaced with wooden doors with half SS fixed on it. • All inner doors to be changed with solid wooden doors and needs to be painted. • All floor and wall /dado tiles to be taken up to a height of 4 ft. • Anti-microbial flooring, wall paneling and ceiling to be done in labor room and Operation Theatre. <p>b. Eye Block</p> <ul style="list-style-type: none"> • Black Granite to be fixed at entrance steps. • Anti-skid tiles to be fixed at ramp. • Aluminum door to be fixed at entrance. • All floor tiles need to be changed. • All inner doors and windows need to be changed with Aluminum windows in non-revamped areas. • All flooring and wall/dado tiles to be changed and wall/dado tiles to be fixed up to a height of 4ft. • All rooms floor tiles to be changed and skirting of 6" to be taken inside rooms. <p>c. Emergency Block</p> <ul style="list-style-type: none"> • Patch work to be done on road in front of Emergency Department. • New ramp to be made in front of Emergency at entrance and PCC track to be made till the road for stretcher movement. • Anti-skid tiles to be fixed on ramp. • SS Railing to be fixed on ramp from floor. • Black granite tiles to be fixed at entrance of emergency. • Dado/wall tiles to be fixed in reception area of Emergency up to a height of 4ft. • All existing floor marble in Emergency block reception and rooms need to be replaced with floor tiles of size 2ft x 2ft. • Existing cement benches in reception of Emergency block needs to be dismantled. • All doors of Emergency block needs to be changed. Replace 	



MINUTES OF MEETING


Communication & Works Department

	<p>all ward entrance doors with aluminum doors and room doors with solid wooden doors.</p> <ul style="list-style-type: none">• All washrooms in Emergency block needs to be revamped completely. All floor tiles to be changed. Wall/dado tiles to be fixed up to a height of 7ft. All washroom accessories to be changed with new plumbing and sewerage lines.• All doors of washroom needs to be replaced with UPVC doors.• PCC track to be made at backside of Emergency block between emergency block and dialysis block to link them for stretcher movement. <p>3.2 External Development</p> <ul style="list-style-type: none">a. New water supply lines to be laid.b. New sewerage line of hospital to be proposed and laid for smooth discharge of Hospital Clinical Blocks.c. Patch work on Main Asphalt road of Hospital to be done.	
5	<p>4. <u>Priority of work</u></p> <p>4.1 <u>Priority 1</u> 3.1 a, b, c.</p> <p>4.2 <u>Priority 2</u> 3.2 a, b.</p> <p>4.3 <u>Priority 3</u> 3.2 c.</p>	

occurring with children

The plans that have been revamped by IDAP are also marked in plans and are attached as Annexure D.

4. In view of all above, it is requested to prepare the cost estimate for remaining work that is required in DHO Hospital Muzuffargarh and THQ Kot Addu (clinical work only) and furnish this office to develop the schemes/ PC-Is. This may be assigned as top priority.


(Maira Khan)
Project Officer Architect
PMU, P&SHD

A copy is forwarded for information to the:

1. Additional Secretary (D & F), P&SH Department Punjab
2. Project Director, PMU, Primary and Secondary Healthcare Department Punjab
3. Deputy Project Director, PMU, Primary and Secondary Healthcare Department Punjab
4. Director Infrastructure, PMU, Primary and Secondary Healthcare Department Punjab
5. MS, DHO Hospital Muzuffargarh
6. MS, THQ Hospital Kot Addu
7. Office copy I&C wing

Annexure (A)

Sr. No.	Name of Hospital	District	Zone
1	DHQ Hospital Hafizabad	Hafizabad	North
2	DHQ Hospital M.B. Din	M.B. Din	
3	DHQ Hospital Narowal	Narowal	
4	THQ Hospital Kamoke	Gujranwala	
5	Civil Hospital Daska	Sialkot	
6	DHQ Hospital Chakwal	Chakwal	
7	DHQ Hospital Jehlum	Jehlum	
8	DHQ Hospital Attock	Attock	
9	THQ Hospital Hazro	Attock	
10	DHQ Hospital Mianwali	Mianwali	
11	THQ Hospital Isa Khel	Mianwali	
12	DHQ Hospital Bhakhar	Bhakhar	
13	DHQ Hospital Khushab	Khushab	
14	THQ Hospital Noor Pur Thal	Khushab	
15	DHQ Hospital T.T. Singh	T.T. Singh	Central
16	Govt. Eye-Cum-General Hospital Gojra	T.T. Singh	
17	DHQ Hospital Jhnaq	Jhang	
18	DHQ Hospital Chiniot	Chiniot	
19	DHQ Hospital Sheikupura	Sheikupura	
20	DHQ Hospital Nankana	Nankana	
21	DHQ Hospital Kasur	Kasur	
22	DHQ Hospital Okara	Okara	
23	DHQ Hospital Okara South City	Okara South City	
24	DHQ Hospital Pakpattan	Pakpattan	
25	THQ Hospital Arifwala	Pakpattan	
26	THQ Hospital Chichawatni	Sahiwal	
27	DHQ Hospital Bahwalnagar	Bahwalnagar	South
28	THQ Hospital Chishtian.	Bahawalnagar	
29	THQ Hospital Ahmadpur East.	Bahawalpur	
30	DHQ Hospital Layyah	Layyah	
31	DHQ Hospital Rajanpur	Rajanpur	
32	DHQ Hospital Muzaffargarh ✓	Muzaffargarh	
33	THQ Hospital Taunsa	DG Khan	
34	THQ Hospital Kot Adu ✓	Muzaffargarh	
35	DHQ Hospital Vehari	Vehari	
36	DHQ Hospital Khanewal	Khanewal	
37	DHQ Hospital Lodhran	Lodhran	
38	THQ Hospital Burewala	Vehari	
39	THQ Hospital Mian Channu	Khanewal	
40	THQ Hospital Shujabad	Multan	

DISTRICT MUZAFFARGARH

Page 1 of 4

[illegible]

Pinth area rates (2nd BI-Annual 1st July to 31st December 2021)	Pinth area	Unit	B.P	Extra for Strip/ isolated column footing	Extra cost for floor and subsequent floor for labour	Extra for frame structure	Extra cost for deduction of 1st and subsequent floor	P.H	E.I	S.I	Total	Amounts	Remarks
Construction of Fiber Glass waiting shed													
Construction of Foundation and Turf Pavers for Fiber Glass Shed	1	Job	218400								218400		
(i) Providing and fixing Fiber glass shed consisting vertical post of G.I pipe 4" dia medium quality 10' above floor level and 1'-6" box pipe embedded in cement concrete 1:2:4 below floor level or fixed with bottom steel plate 6"x6" i/c rowel bolts provided with top frame of M.S 1"x1" gauge 18 SWG with flanges of M.S box pipe 1 1/2"x1 1/2" with 16 SWG 10 1/2" light i/c fixing of 2-ply fiber glass sheet and painting of sq pipe frame is included in the rate complete as approved (10x500 = 5000 Sft)	303	Sft	491								491	148773	Detail Attached
(iii) Providing and fixing cast iron bench with wooden planks etc complete in all respect and as approved by the Engineer in charge.	8	Nos.	25500								25500	204000	Detail Attached
8 Providing and Fixing of Parking Shed comprising of 10 SWG column pipe 5" dia, 12 SWG main arch pipe 2.5" dia, 14 SWG support and perforin pipe 2" dia with covering sheet tensile fabric for 700 GSM size 20"x18" i/c making Additional Items	1	Job	404385								404385	404385	Detail Attached
(ii) Providing and fixing of Stainless Steel Railing.	620	Rn	2696	(-)	928.35						1767.65	1095943	Detail Attached
(iii) Provision of Anti Skidding Ramps.	760	Sft	206								206	156560	Detail Attached
9 Up lifting of Front Elevation.	9398	P-Sft	540								540	5074920	Detail Attached

Wapda Charges for transformer payable to Mepco to ease the load capacity of old transformer

1% Tree Plantation

3% P.S.T

Remarks		Amounts	Plinth area rates (2nd BI-Annual 1st July to 31st December 2021)										Unit	Job	1	Name of work
			Total	Extra cost for deduction of 1st and subsequent floor	P.H	E.I	S.I	Extra for frame structure	Extra cost for 1st and subsequent floor for labour	Extra for Strip/ isolated column footing	B.P	3628278				
Detail Attached		3628278	3628278													ing and installing Street Light 10' Height.

Total = 93990468

Rs. 4699523

Rs. 939905

Rs. 2000000

G.Total 101629896

Say 101630000

OR = 101.630 (M)

Executive Engineer
Muzaffargarh

ROUGH COST ESTIMATE FOR THE WORK "REVAAMPING OF TEHSIL HEAD QUARTER HOSPITAL AT KOT ABU DISTRICT MUZAFFARGARH"

Name of work	Plinth area	Unit	B.P	Extra for Strip/Isolated column footing	Extra cost for Lab and subsequent floor	Extra for structure frame	Extra cost for deduction of floor	P.H	E.I	S.I	Total	Amounts	Remarks	Plinth area rates (2nd BI-Annual 1st July to 31st December 2021)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Revaamping of old building	1	Job	33052897	22089996								33052897	33052897	Detail Attached																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Sr. No.	Name of work	Plinth area	Unit	B.P.	Extra for Strip/ laotied column footing	Extra cost for labour and subsequent floor for labour	Extra for structure frame	Extra cost for deduction of 1st and subsequent floor	P.H	E.I	S.I	Total	Amounts	Remarks
11)	INSTALLATION OF R.O (REVERSE OSMOSIS) WATER CHILLER UNIT COMPLETE IN ALL RESPECT OF APPROVED QUALITY THE SPECIFICATION OF PURIFICATION PLANT CAPACITY 200 L.P.H AS APPROVED BY THE ENGINEER INCHARGE.	1	Nos.	342000								342000		Detail Attached
6	Supplying and erection of 4 core cable PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable. Cost of trenches where necessary armoured with G.I. wire 16 SWG. iii) 19/1.63 mm (19/0.064").	1550	P-RN	756								756	1171800	Detail Attached
7	Providing and fixing fiber glass walling shed consisting vertical post of G.I pipe 4" dia medium quality 10' above floor level and 1' 6" box pipe embedded in cement concrete 1:2:4 below floor level or fixed with bottom steel plate 6"x6" i/c rowel bolts provided with top frame of M.S. 1"x1", gauge 18 SWG with trusses of M.S. box pipe 1 1/2"x1 1/2" with 16 SWG 10 1/2" light i/c fixing of 2-ply fiber glass sheet and painting of sq pipe frame is included in the rate complete as approved	10	Nos.	942574								942574	9425742.574	Detail Attached
8	Providing and Fixing of Parking Shed comprising of 10 SWG colour pipe 5" dia, 12 SWG main arch pipe 2.5" dia, 14 SWG support and perfor pipe 2" dia with covering sheet tensile fabric for 700 GSM size 20"x18" i/c making foundation excavation base concrete (1:2:4) complete with finishing and as approved and directed by the Engineer Incharge"	110	Nos.	404385								404385	404385	Detail Attached
9	Provision of Anti Skid Ramps and Hand Rails	1	Job	1880368								1880368	1880368	Detail Attached
10	Up lifting of Front Elevation	9398	P-SR	540								540	5074920	Detail Attached

Plinth area rates (1st BI-Annual 1st January to 30th June 2021)

COMPARATIVE STATEMENT

REVISED ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF TEHSIL HEAD QUARTER HOSPITAL KOT ABU DISTRICT MUZAFFARGARH"

Sr	CHAP/I	DESCRIPTION	As per R.C.E/A				As per Revised Rough Cost Estimate				Difference		Remarks
			Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Excess	Saving	
"A" STANDARDIZED ITEMS			3										
			4	5	6	7	8	9	10	11	12	14	
1	3/5	Earth work in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section complete in all respect compacted up to 95% to 100% maximum modified AASHO dry density. Lead 1 Mile	93417	%Cft	10574.15	987805	31875	%Cft	2539.70	80953		906852	As per scope of work provided by PMU Due to changed scope of work
2	3/13	Reharrowing of earthwork:- a) Lead upto a single throw of Kasbi Pharaoh or shovel	31875	%Cft	1914.00	61009	31875	%Cft	2539.70	80953	19944		
3	3/15	Filling, watering and ramming earth under floors:- ii) with surplus earth excavated from foundation, lead upto one chain	234	%Cft	3867.6	905	171	%Cft	16350.15	2625	1720		
4	3/15	Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside, lead upto one mile	1547	%Cft	11435.66	17691	171	%Cft	16350.15	2625		15066	
5	3/21	Excavation in foundation of building, bridges and other structures, including daggeling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) iii) in ordinary soil	1101	%Cft	8078.4	8894	2035	%Cft	10677.75	21729	12835		
6	3/42	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:- ii) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	42600	%Cft	6683.3	284709	31050	%Cft	11740.4	364539	79830		
7	3/44	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 thinning, dressing sideslopes, the beds of trenches pits for joints, etc. complete in all respects to correct grade and culling	15000	%Cft	6683.3	100250	15000	%Cft	7622.75	114341	14091		
DISMANTLING													
1	4/19	(c) Dismantling cement concrete 1:2:4 plain	14672	%Cft	8421.60	1235617	1317	%Cft	11171.60	147169		1088448	
2	4/22	b) Dismantling 2nd class tile roofing.	12267	%Sft	957.00	117395	9667	%Sft	1269.85	122756	5361		
3	4/32	a) Removing door with chowkat.	86	Each	331.65	28522	62	Each	438.00	27156		1366	
4	4/32	b) Removing windows and sky lights with chowkat	115	Each	258.70	29751	33	Each	341.50	11270	18481		
5	4/48	Removing old cement or lime plaster.					2676.50	%Sft	423.30	11330			
6	49	Scraping White wash or colour wash					45116	%Sft	253.95	114572			
7	4/50	Dismantling glazed or encaustic tiles, etc.					15072	%Sft	2335.85	352059			
CONCRETE													
1	6/2	Dry rammed Brck or stone ballast 1-1/2" to 2" gauge in foundation and plinth					487	%Cft	8891.5	43302	43302		
2	6/3	Cement concrete brick or stone ballast 1 1/2" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1:6:12	3131	%Cft	12390.30	387940	1297.50	%Cft	21060.85	273265		114675	

NO	ITEM	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) - (i) Ratio 1:2:4	5083.04	%Cft	25066.80	1274155	4152.04	%Cft	38126.10	1583011	308856	//	
4	6/6	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:- (3) (c) Type C (nominal mix 1:2:4)	62.00	P-Cft	414.00	25668					25668	//	
5	6/6	Reinforced cement concrete in slab of raft / 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. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1:2:4)	2319.00	P-Cft	302.95	702541	1078	P-Cft	457.75	493455	209086	//	
6	6/6	Reinforced cement concrete in slab of raft / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1:1:1.5:3)					299	P-Cft	513.65	153581	153581	//	
7	6/9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) Deformed bars (Grade-40)	7868.00	% Kgs	19998.35	1573470	4756	% Kgs	31420.10	1494340	79130	//	
		BRICK WORK										//	
1	7/4	Pucca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	689.00	%Cft	20372.45	140366	1429	%Cft	28578.7	408390	268024	//	
2	7/7	Pucca brick work other than building up to 10ft. (3 m) height, i) cement, sand mortar:- Ratio 1:4	10990.00	%Cft	22166.4	2436087	4896	%Sft	31336.3	1534225	901862	//	
3	7/10	Extra for pucca brick work in setting of wells or any other circular masonry	912.00	%Cft	24168.25	220414	912	%Cft	34019.5	310258	89843	//	
4	7/30	Supplying and filling sand under floor; or plugging in wells.	120.00	%Cft	2119.00	2543	4064	%Cft	2,823.30	114739	112196	//	
		ROOFING										//	
1	9/5	Single layer of tiles 9"x4 1/2"x1 1/2" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Rhooas, 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.	12267.00	%Sft	7924.05	972043					972043	//	
2	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	8.00	Each	604.25	4834	8	Each	854.35	6835	2001	//	
3	9/35	Providing and laying roof insulation, comprising of single (iii) thermopore 1" layer of tiles 9"x4 1/2"x1 1/2" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:-					9667	%Sft	14693.50	1420421	1420421	//	
		FLOORING										//	
1	10/3	Providing, laying, watering and ramming brick ballast 1 1/2" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects	120.00	%Cft	4775.70	5731	4571	%Cft	9284.40	424390	418659	//	
2	10/42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/bond over 3/4" thick (1:3 cement plaster i/c the cost of sealer for finishing the joints i/c cutting, grinding complete in all respect as approved and directed by the Engineer incharge a) b) Half body Tile d) (Non-Skid Chequered Tiles) 300mmx300mm					340	P-Sft	211.55	71927	71927	//	

NO	ITEM	3	4	5	6	7	8	9	10	11	12	13	14
1	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion 1/2" c/growing with sand in joints 1/2" finishing to require slope. complete in all respect. (50% Grey / 50% Coloured) b) 60-mm thick	663	P. Sft	111.05	73626						73626	//	
4	Providing and laying Polished Granite 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. (i) 3/4" thick						893	P-Rft	1308.95	1168892	1168892	//	
11/9	Cement plaster 1 1/4 upto 20" (6.00 m) height - b) 1/2" (13 mm) thick	30561	%Sft	2306.40	704859	16577	%Sft	3241.60	537360		167499	//	
2	Cement pointing struck joints, on walls, upto 20 ft a) 1:2	211	%Sft	2634.30	5558	432	%Sft	4168.65	18009	12451		//	
3	Providing and fixing 1 1/2" (40 mm) thick deepstar 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:- i) M.S. angle iron 1 1/2"x1 1/2"x1/2", welded (40 mm x 60 mm) with M.S. flat 2"x1/2" (50 mm x 6 mm)	263	P-Sft	1055.80	277675	564	P-Sft	1531.85	863963	586288		//	
4	Providing and fixing M.S. flat 1/2"x1/8" (13mm x 3mm) grill including 3/4" x 1/8" (20 mm x 3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	3311	P-Sft	317.00	1049587	1264	P-Sft	492.20	622141		427446	//	
12/54	Painting new surface:- d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- Three Coats						%Sft	1805.25	6066	6066		//	
13/5	Bitumen coating to plastered or cement concrete surface:-iii) 10 lbs. per 100 Sft. (4.54 Kg per Sq.m)	893	%Sft	803.7	7177	893	%Sft	1222.15	10914	3737		//	
2	Preparing surface and painting with emulsion paint:- two Coats						%Sft	2034.65	765537	765537		//	
3	Preparing surface and painting with emulsion paint:- Three Coats	29325	%Sft	2200.75	645370						645370	//	
4	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. a) new surface: ii) three coats						%Sft	5,245.30	634262	634262		//	
5	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. a) new surface: ii) three coats						%Sft	5,245.30	634262	634262		//	
6	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. a) OLD surface: ii) 02 coats	5052	%Sft	3116	157420						157420	//	
7	Painting traffic lane 5" thick T.P. Paint complete in all respect.	6667	P-Rft	31.65	211011						211011	//	
13/33	Painting traffic lane 5" thick T.P. Paint complete in all respect.											//	
18/3	Providing and laying Sub Base Course of crushed stone aggregate approved quality and grade, including placing, mixing, spreading and compaction of sub base material to required depth complete in all respect. (Analysis attached)	20000	%Cft	9903	1980600						1980600	//	
2	Providing and laying road edging 3" wide & 9" deep brick on end complete in all respect	5000	P-Rft	38.8	194000						194000	//	
3	Providing priming coat using 10Lbs kerosene oil and 10Lbs binder for %Sft area complete in all respect.	40000	%Sft	1160.55	464220						464220	//	

NO	ITEM	3	4	5	6	7	8	9	10	11	12	13	14
4	18/8	Providing surface treatment to roads, including supply of bitumen and baffle/crushed stone aggregate of approved quality, including cleaning of road surface, heating and spraying bitumen, spreading baffle and rolling with road roller (including its operation cost, fuel and hire charges, etc.) etc. complete including carriage of all materials to site of work except baffle/crushed stone aggregate (15T 79 lbs 100st)					4800	%Sft	8216.4	394387	394387		
5	18/26	Providing and fixing cat ayes of size 4"x4"x3/4" of approved quality and shape etc complete in all respect (Bio Directional)	500	P.Each	350.00	175000					175000	//	
		PLUMBING, SANITARY INSTALLATION & GAS FITTINGS											
1	19/6	Providing and fitting glazed earthen ware wash hand basin / vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. (v) white pedestal					15	Each	5169.95	77549	77549	//	
2	19/12	Providing and fitting plastic made low down flushing cistern 1365 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete, (i) white					15	Each	4029.10	60437	60437	//	
3	19/29	Providing and fixing, chromium plated mixing valve, for washhand basin, sink or shower					25	Each	2228.75	55719	55719	//	
4	19/34	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating (i) 10x5 cm (4"x2")					54	Each	627.75	33899	33899	//	
5	19/35	Providing and fitting "P" trap, (ii) 10 cm (4") glazed					47	Each	283.10	13306	13306	//	
6	19/36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12")					30	Each	1096.60	32898	32898	//	
7	19/45	Providing and fixing brass stop cock/bib cock (a) 15 mm (1/2") dia					66	Each	553.75	36548	36548	//	
		SEWERAGE											
1	21/1	Providing & laying of R.C.C. sewer pipe moulded with cement concrete (1:1-1/2:3) with spigot, socket and collar joints conforming to BS-5911 Part-1 1981 Class "L" i/c lowering jointing Testing complete										//	
2		(i) 225 mm (9") i/d	1000	P-Rft	427.60	427600	1000	P-Rft	528.30	528300	100700	//	
3	21/3	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79, Class II, Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc. complete, (i) 310 mm (12") i/d	1500	P-Rft	546.65	819975	1500	P-Rft	695.60	1043400	223425	//	
4		P/ laying of PVC sewer pipe of BSS class "D" working pressure i/c lowering jointing, Testing complete										//	
5	21/9	Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish	2500	%Sft	2052.90	51323	1000	%Sft	2934.10	29341	21982	//	
6	21/16	Providing and fixing, 3" (150 mm) thick R.C.C. manhole cover for 22" as per standard drawing STD/PD No. 6 of 1977, complete in all respects	250	Each	9146.15	2286538	100	Each	11561.95	1156195	1130343	//	
		SINKING OF WELLS											
1		Excavation of well in dry upto 20' below ground level & disposal of soil with in one chain in ordinary soil										//	

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Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Excess	Saving
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2	3	4	5	6	7	8	9	10	11	12	13	14
Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Excess	Saving			
24/12	Supply and erection of twin core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in to prelad G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-19/0.083											
0	1) 7/1.12 mm (7/0.044)											
24/13	Supplying and erection of 4 core cable PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, Cost of trenches where necessary armoured with G.I. wire 16 SWG. 1) 19/1.63 mm (19/0.064)	1550	P-Rft	756.00	1171800					1171800		
24/14	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulator switches, plugs, etc. 1) 22.5 x 10 cm (9"x4")					41	Each	478.30	19610	19610		
24/18	Supply and erection of iron/aluminum clad, 500 volts main switches with kilkat fuses, on angle iron board with 3 mm (1/8") thick M.S. sheet covering, including bonding to earth with necessary flexible pipe and turnbuckles, etc. triple pole with neutral link. 1) 100 Amp.	4	Each	4590.30	18361					18361		
24/20	Supply and erection of iron/aluminum clad, branch distribution board, 250 volt, on angle iron frame of suitable size with 3 mm (1/8") M.S. sheet covering. 6 way, 15 Amp per way	4	Each	1004.80	4019					4019		
24/21	Supply and erection of bus bars, for 500 volts 3 phase A.C. supply with four copper bars, including glazed porcelain bridges, on angle iron board, fixed with rag bolts and M.S. sheet box 1.5 mm thick, etc. complete. 1) 100 Amp. with 4 copper bars size 1 1/2"x1/8" (40 x 3 mm)	4	Each	3531.70	14127					14127		
24/31	Supply and erection of piano switches 5 Amp											
24/34	Supply and erection of 3 pin, 10/15 Amp. wall socket. Recessed type					58	Each	134.10	7778	7778		
24/37	Supply and erection of 3 pin switch and plug combined, recessed type 10/15 Amp					35	Each	149.80	5243	5243		
24/39	Supply and erection of button holder. 1) bakelite large size					250	Each	53.75	134275	134275		
24/44	Providing and fixing M.S. iron box for housing main switches, made of 1.5 mm (1/16") thick M.S. sheet, with locking arrangement, including painting. 1) 95x10x20 cm (38"x16"x8")	4	Each	4240.25	16961					16961		
24/65	Supply and fitting of mercury vapour lamp, complete with choke set. 1) 125 watt lamp	200	Each	1215.75	243150					243150		
24/68	Earthing of iron-clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (1/2") dia, recessed or on surface of wall with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.	50	Each	7112.95	355648					355648		

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1	2	3	4	5	6	7	8	9	10	11	12	14
21	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, 1/c the cost of Lock, Indication Lights, Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls Complete in all respect as approved and directed by the Engineer in-charge (Breakers will be Paid Separately).										//
1	25/10	Fabrication of Heavy steel work with angle, Tee, Flat Iron, round iron & sheeting for making Trusses etc /c cutting, drilling, reworking, Handling, Assembling etc w/out erection in position	389	%kg	20958.35	81528	389	%kg	32502.85	126436	44908	//
2	25/10	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre, with locking arrangement.					168	P.Sft	2373.30	398714	398714	//
3	25/44	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of X/s Al-Cop or PakistanCables, having chowkai frame of size 40 x 100 mm (1 1/2" x4") and leaf frame of 60x100mm (2 1/2"x1 1/2") wide sections including the cost of 1/4" (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.			586.45	12126297	776	P-Sft	1437.60	1115578	100719	//
4	25/45	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x3/4") and leaf frame sections of 50 x 20 mm (2"x1/2"), 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.	3311	P-Sft	498.50	1650534	1264	P-Sft	1348.40	1704378	53845	
		Providing and fixing Aluminium Fly screen comprising of Fiber / Aluminium wire gauze (Malasian) fixed in aluminium 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 hardware as approved and directed by the engineer in-charge. complete in all respect.	3311	P-Sft	330.05	1092796	631	P-Sft	493605	31115	781681	//
5	25/45	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/ Square 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 gholes fixed on vertical post, i/c stainless steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer in-charge.					96	P-Sft	1,775.10	170410	170410	//



NO	ICM	3	4	5	6	7	8	9	10	11	12	12	14
3		P/1. Ceramic Tile Size 12"x36" Master Or Equivalent Laid Over 1/2 Cement Sand Mortar 3/4" Thick 1/C Filling Of Joints With Matching Pigment Complete In All Respect As Approved By The Engineer In Charge (For Flooring)	1882	P.Sft	273	513786					513786	//	
4		P/1. Ceramic Tile Size 12"x36" Master Or Equivalent Laid Over 1/2 Cement Sand Mortar 3/4" Thick 1/C Filling Of Joints With Matching Pigment Complete In All Respect As Approved By The Engineer In Charge (For Skirting)	1882	P.Sft	289	543898					543898	//	
5		Providing and fixing of laminated gypsum board (one side laminated) of size 60mm x 600 mm x 9-10 mm over aluminium Ties 1" x 1" size at 2'-0"x2'-0" center to center longitudinally and transversally kaluminium angle of size 1" x 1" at corners/ends, including all accessories such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross joints etc. complete in all respect, and as approved by the Engineer Incharge	17680	P.Sft	95	1679600					1679600	//	
6		Supply and erection of SMD Light 40 watts of size 2'x2' (Original design) etc complete in all respect as approved by the Engineer Incharge.	170	P.Each	10860	1846200					1846200	//	
7		PROVIDING AND FIXING GLAZED CONMOD IN WALL FIX (PORTA HD 8801 WH) OF APPROVED COLOR AND DESIGN ETC COMPLETE AS APPROVED BY THE ENGINEER INCHARGE	32	P.Each	18500	592000					592000	//	
8		PROVIDING AND FIXING WALL PANELLING PVC LAMINATION SHEET SIZE (9'-1/2"x9'-1/2") WATER PROOF 1/C COST OF NAILS AND PVC COLA ETC AS APPROVED BY THE ENGINEER INCHARGE	1204	P.Sft	110	132440					132440	//	
9		Providing and laying water bound macadam base Course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, 1/c placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all materials to site of work complete in all respects. (Analysis attached)	26667	%Cft	14346.2	3825701					3825701	//	
10		Providing and laying plant premixed bituminous carpet including compaction and finishing to required camber grade and density 2" thick 4.5% bitumen complete in all respect (Analysis attached)	40000	%Sft	9829.27	3931708					3931708	//	
11		Providing and fixing Fiber glass shed consisting vertical post of Gal pipe 4" dia medium quality 10' above floor level and 1'-6" box pipe embedded in cement concrete 12:1 below floor level or fixed with bottom steel plate 6"x6" 1/c rowel bolts provided with top frame of M.S. 1"x1", gauge 18 SWG, with runners of M.S box pipe 1 1/2"x1 1/2" with 16 SWG 10 1/2" high 1/c fixing of 2-ply fiber glass sheet and painting of sq pipe frame is included in the rate complete as approved.	303	P.Sft	491	148773					148773	//	
12		Providing and fixing cast iron bench with wooden planks etc complete in all respect and as approved by the Engineer in charge.	8	P.Each	25500	204000					204000	//	
13		Providing and Fixing of Parking Shed comprising of 10 SWG column pipe 5" dia, 12 SWG main arch pipe 2.5" dia, 14 SWG support and perlin pipe 2" dia with covering sheet tensile fabric for 700 GSM size 20'x18' 1/c making foundation excavation base concrete (1:2:4) complete with finishing and as approved and directed by the Engineer Incharge	360	P.Sft	744	267840					267840	//	

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NO	ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13	14
14		Providing and laying non-slippery tiles flooring 12"x12" light colour and in white cement matching pigments over 3/4" thick cement sand mortar 1/c filling joints with white cement and matching pigments complete in all respects.	760	P.Sft	206	156560							156560	//	
15		Providing and fixing stainless steel railing comprising of 2" stainless steel Hand Rail and Vertical Post at 4' c/c and 1 1/2" dia s.s pipe Horizontal etc 1/c Posts / Heads and screws etc complete in all respects and as approved by the Engineer in charge.	620	P.Rft	1767.65	1095943							1095943	//	
16		PROVIDING AND FIXING OF ALUMINIUM COMPOSITE PANEL 1/C CUTTING AND HOLDING OF SHEET FIXED WITH ALUMINIUM FRAME (TEE & L) 1/C COST OF HOOK & SCAFFOLDING, CARRIAGE CHARGES COMPLETE IN ALL RESPECT & AS APPROVED BY THE ENGINEER INCHARGE	9398	P.Sft	540	5074920							5074920	//	
17		S/E of 10' high decorated pole 1/c head lamps 02 Nos. silver casted without bulbs and wires. (Quotation attached)	50	P.Each	42000			2100000					2100000	//	
18		Providing and laying under ground brick masonry to protect the electric cable and PVC pipe for street lights and service cables	1700	P.Rft	86	146200							146200	//	
19		Providing and fixing Operable door comprising of 3mm thick UPVC hollow profile, chawkat 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 1/c the cost of hardware, hinges, four bolt and cutting changes on approved & directed by the Engineer in charge							298	P-Sft	1042.00	310516		//	
20		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 in charge.							738	P-Sft	1134.00	836892		//	
21		Supply and installation premium graded/ scratch-resistant Hygenic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channel of size 3.5"X 2"X3.5" duly screwed on wall 1/c the cost of hardware as approved and directed by the Engineer in charge							1848	P-Sft	1890.00	3492720		//	
22		Providing and fixing high quality LED SMD Panel Light 2 ft x 2 ft of specified wattage and Luminous flux with Polystyrene bowl/prismatic cover made at Philips as approved and directed by the Engineer in charge (iii) 48 watt/4000 K							15	Each	14820.00	222300		//	
23		S/E of LED Bulb 18-Watt best quality as approved by the Engineer in charge							350	Each	750.00	262500			

Sl. No.	Item	Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
24	Supply and installation of Clip-in tile of specified thickness non-porous Aluminium false ceiling of specified size fitted with 'Clip-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 D/M/F/A/Demark, as approved and directed by the Engineer Incharge. (A) 0.6 mm thick (a) Sharp edges & flange 19.5 mm (b) 400 mm x 400 mm						738	P-Sft	945.00	697410	697410										
25	Providing and fixing half sliding door i/c locking arrangement complete in all respect as approved by the Engineer in charge.						119		1730.35	205912	205912										
26	Providing and fixing (KSB) Sludge pump 5"x3" type 100-250 duty coupled with 20 HP / 1450 RPM 380/400 volts 3-phase 50 C/S. A/CIP-44 (SEIMENS) Electric motor through as flexible coupling mounted on common steel base frame i/c sluices valve, foot valve & motor control Unit complete in all respect as approved by the Engineer Incharge.						1		1648500	1648500	1648500										
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Amended Rough cost Estimate For Revamping of All THQ Hospitals in Punjab (Phase-2) in THQ Kot Addu District Muzaffargarh (ADP-658)

COMPARATIVE STATEMENT

Sr. No.	Sr. No.	Description	Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	As per Approved Rough cost Estimate (1st July to 31st December 2021)	As per Amended Rough cost Estimate (1st July to 31st December 2022)	As per Amended Rough cost Estimate (10-6)	Remarks
1	1	2	3	4	5	6	7	8	9	10				12
6	B	Internal Development												
6	A	Renovation of Old Building /Detail Attached	1	P.Job	19488600	19488600	1	P.Job	28513386	28513386		9,024,786.00		
2	a)	P/L Salt'n Pepper (SPN) Light polished SB of 24" x 24" Master 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 & directed by the Engineer Incharge (for floor).	17680	sft	285	5038800						5,038,800.00	-	
3	b)	P/L Salt'n Pepper (SPN) Light polished SB of 24" x 24" Master 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 & directed by the Engineer Incharge (for skirting).	19638	sft	289	5675382						5,675,382.00	-	
4	c)	P/L Ceramic tile size 12" x 36" Master or equivalent tile laid over 1:2 cement sand mortar 3/4" thick i/c filling of joints with matching pigment complete in all respect as approved & directed by the Engineer Incharge (for flooring).	1882	sft	273	513786						513,786.00	-	
5	d)	P/L Ceramic tile size 12" x 36" Master or equivalent tile laid over 1:2 cement sand mortar 3/4" thick i/c filling of joints with matching pigment complete in all respect as approved & directed by the Engineer Incharge (for skirting).	1882	sft	289	543898						543,898.00	-	
6	e)	Providing & fixing false ceiling consisting of laminated Gypsum Board (one side laminated) of size 600mm x 600mm x 9-10 0 mm over aluminum Tee's 1"x1" size at 2'-0"x2'-0" center to center longitudinally and transversally & aluminum angle of size 1" x 1" at corners/ends, including all accessories such as steel hanging wire, hooks, screws, nails, rowel plugs. Cross joints etc. complete in all respect, and as approved by the Engineer Incharge.	17680		95	1679600						1,679,600.00	-	
7	f)	Supply and erection of SMD Light 40 watts of size 2'x2' (Original design) etc complete in all respect as approved by the Engineer Incharge.	170	Each	10860	1846200						1,846,200.00	-	
8	g)	PROVIDING AND FIXING GLAZED COMMOD IN WALL FIX (PORTA HD 8801 WH) OF APPROVED COLOR AND DESIGN ETC COMPLETE AS APPROVED BY THE ENGINEER INCHARGE	32	Each	18500	592000						592,000.00	-	
9	h)	PROVIDING AND FIXING WALL PANELLING PVC LAMINATION SHEET SIZE (9-1/2"x9-1/2") WATER PROOF I/C COST OF NAILS AND PVC GOLA ETC AS APPROVED BY THE ENGINEER INCHARGE	1204	sft	110	132440						132,440.00	-	
10		Construction of Boundary Wall 9" thick 8'	3886	Rft	5309	21407974	1100	Rft	3268	3,594,800		17,813,174.00	-	
3		Construction of Road	1	P.Job	12123100	12123100	1	P.Job	406200	406200		11,716,900.00	-	
4		Sewerage & water supply	1	P.Job	11946043	11946043	1	P.Job	12171279	12171279		225,236.00	-	
5		Water Filtration Plant (Building)	390	Sft	2307	899730						899,730.00	-	
6		Supply and erection of 4 core cable PVC insulated, PVC sheathed 4 core 66	1550	Rft	756	1171800						1,171,800.00	-	
7		Construction of Fibre glass waiting shed.											-	
11		Construction of Foundation and Tuff Pavers for fiber glass shed	1	P.Job	218400	218400						218,400.00	-	

Sr. No.	Sr No.	1	(ii)	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)		Remarks							
					Qty	Unit	Rate	Amount		Qty	Unit	Rate	Amount			
					3		4	5	6	7	8	9	10	11.00	12	

13

Detail of Eye Ward

Sr. No.	Description	No	Length	Breadth	Depth	Contents	Amount
1	Dismantling glazed or encaustic tiles, etc.						
	flooring	1 x	20 x	14.5	=	290 Sft	
		1 x	11.5 x	8.5	=	98 Sft	
		1 x	8 x	8	=	64 Sft	
		2 x	6 x	6	=	72 Sft	
	skirting	2x1 x(	20 +	14.5)x	11/2 =	104 Sft	
		2x1 x(	11.5 +	8.5)x	11/2 =	60 Sft	
		2x1 x(	8 +	8)x	5 =	160 Sft	
		2x2 x(	6 +	6)x	5 =	240 Sft	
					Total: =	534 1687 Sft	
					@	2335.85 %Sft	
							12473 - Rs. 25397/-
2	Dismantling lime or cement concrete, under water. c) Dismantling cement concrete 1:2:4 plain.						
	tiles flooring	1 x	20 x	14.5 x	1/8 =	36 Cft	
		1 x	11.5 x	8.5 x	1/8 =	12 Cft	
		1 x	8 x	8 x	1/8 =	8 Cft	
		2 x	6 x	6 x	1/8 =	9 Cft	
		2 x	6	12 x	1/8 =	18 Cft	
		1 x	35	12 x	1/8 =	53 Cft	
		1 x	16	23 x	1/8 =	46 Cft	
		1 x	12	8.5 x	1/8 =	13 Cft	
		1 x	12	7.5 x	1/8 =	11 Cft	
					Total: =	206 Cft	
					@	11174.60 %Cft	
							Rs. 23016/-
3	Dismantling 2nd class tile roofing.	1 x	48.5 x	38.5 x	=	1867 Sft	
					Total: =	1867 Sft	
					@	1269.85 %sft	
							Rs. 23711/-
4	Removing cement or lime plaster						
		1 x	17 x	10 x	=	170 sft	
		1 x	9 x	5 x	=	45 sft	
		1 x	5 x	8 x	=	40 sft	
		2x1 x(	20 +	14.5)x	6 =	414 Sft	
		2x1 x(	11.5 +	8.5)x	10 =	400 Sft	
		2x1 x(	8 +	8)x	7 =	224 Sft	
					Total: =	1293 Sft	
					@	423.30 %sft	
							Rs. 5473/-
5	Scraping-White wash or colour wash.						
		1 x	20 x	14.5 x	=	290 sft	
		1 x	11.5 x	8.5 x	=	98 sft	
		1 x	8 x	8 x	=	64 sft	
		2 x	6 x	6 x	=	72 sft	
		2 x	6	12 x	=	144 sft	
		1 x	35	12 x	=	420 sft	
		1 x	16	23 x	=	368 sft	
		1 x	12	8.5 x	=	102 sft	
		1 x	12	7.5 x	=	90 sft	
		2x1 x(	20 +	14.5)x	10 =	690 Sft	
		2x1 x(	11.5 +	8.5)x	10 =	400 Sft	
		2x1 x(	8 +	8)x	6 1/2 =	208 Sft	
		2x2 x(	6 +	6)x	6 4/8 =	312 Sft	
		2x1 x(	6	12)x	11 =	396 Sft	
		2x1 x(	35	12)x	11 =	1034 Sft	
		2x1 x(	16	23)x	11 =	858 Sft	
		2x1 x(	12	8.5)x	11 =	451 Sft	
		2x1 x(	12	7.5)x	11 =	429 Sft	
					Total: =	4778 6426-sft	
					@	253.95 %Cft	
							12132/- Rs. 16310/-
6	Removing door with chowkat.	1 x	10			10 Nos.	
					Total: =	10 Nos.	
					@	438.00 P-No.	
							Rs. 4380/-
7	Removing windows and sky light with chowkat.	1 x	2			2 Nos.	
					Total: =	2 Nos.	
					@	341.50 P-No.	
							Rs. 683/-

14

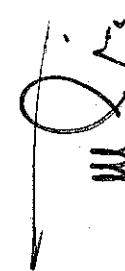
ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF TEHSIL HEAD
QUARTER HOSPITAL KOT ADU DISTRICT MUZAFFARGARH"

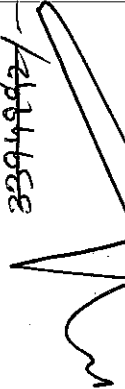
GENERAL ABSTRACT OF COST

1 Renovation/Rehabilitation of Main Building (Eye Ward)	2461832/- 2979192/- 3090700/-
2 Electric Installation	= Rs. 3167200/-
3 Sanitary Installation	= Rs. 144600/- 161132
	= Rs. 274200/-

Total = Rs. 9583000/-
~~3506500/-~~
3397257/-


Sub-Engineer


Sub-Divisional Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

8 Excavation in foundation of buildings bridges other structures i/c dag belling refilling dressing lead upto one chain and lift upto 5' in ordinary soil.

1 x	13	x	2 x	1 1/2 =	39 Cft
1 x	13	x	4 x	1 =	52 Cft
Total: =					91 Cft
@					10677.75 %Cft

Rs. 972/-

9 Dry rammed brick or stone balast 1-1/2" gauge in Foundation and Plinth.

1 x	13	x	2 x	1/2 =	13 Cft
1 x	13	x	4 x	1/2 =	26 Cft
Total: =					39 Cft
@					8891.50 %Cft

Rs. 3468/-

10 Pacca brick work in F&P Ratio 1:6 with cement sand mortar.

1 x	13	x	1.125 x	2 1/2 =	37 Cft
1 x	13	x	4 x	1/2 =	26 Cft
1 x	13	x	3 x	1/2 =	20 Cft
1 x	13	x	2 x	1/2 =	13 Cft
1 x	13	x	1 x	1/2 =	7 Cft
4 x	10	x	1.125 x	1 1/2 =	68 Cft
Total: =					169 Cft
@					28578.70 %Cft

Rs. 48316/-

11 Filling watering ramming new earth from out side lead upto one mile.

1	=	116 Cft
1	=	55 Cft
		<hr/>
Total:	=	171 Cft

Rs. 2618/-

12 Supply and filling sand under floor or plugging in wells.

1/3 =	38 Cft
1 =	55 Cft
Total: =	<u>93 Cft</u>
@	2823.30 %Cft

Rs. 2629/-

13 Providing, laying, watering and ramming brick ballast 1 1/2" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.

1/3 =	38 Cft
1/3 =	96 Cft
1/3 =	32 Cft
1/3 =	21 Cft
1/3 =	24 Cft
1/3 =	48 Cft
1/3 =	139 Cft
1/3 =	121 Cft
1/3 =	34 Cft
1/3 =	30 Cft
1/3 =	18 Cft
Total: =	600 Cft
@	9284.40 ¹⁰ / ₁₀₀ Cft

Rs. 55740/-

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

1/8 =	36 Cft
1/8 =	12 Cft
1/8 =	8 Cft
1/8 =	9 Cft
1/8 =	18 Cft
1/8 =	53 Cft
1/8 =	46 Cft
1/8 =	13 Cft
1/8 =	11 Cft
1/8 =	21 Cft
1/8 =	13 Cft
1/8 =	11 Cft
1/8 =	21 Cft
1/8 =	13 Cft
1/8 =	11 Cft
1/8 =	21 Cft
1/8 =	13 Cft
<hr/>	
Total: =	329 Cft

Rs. 125566/-

@ 38126.10 %Cft

- 15 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 mortar bed, complete in all respect as approved and directed by the Engineer Incharge. (i) 3/4" thick.

1 x 13	x	13 x	=	169 SFT
1 x 13	x	6.5 x	=	85 SFT
Total: =				254 SFT
@	1308.95	P-SFT		

Rs. 331819/-

- 16 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.

d) (Non-Skid Chequered Tiles) 300mmx300mm.

2 x 10	x	5 x	=	100 SFT
Total: =				100 SFT
@	211.55	P-SFT		

Rs. 21155/-

- 17 Providing and fixing all types of partly fixed and partly openable glazed anodised / powder coated aluminium doors using delux section of M/s Al-Gep or Dakin.

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 51 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 x 6	x	8.5 x	=	51 Sft
4 x 3 1/2	x	8.5 x	=	119 Sft
Total: =				170 Sft
@	1437.60	P-Sft		
	507.20			

85374 --
Rs. 244397/-

- 19 Providing and fixing M.S. flat 1/2"x1/8" (13mm x 3mm) grill in ~~existing~~ 3/4" x 1/8" (20 mm x 3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.

win W1	2 x 8	x	--	x	6 =	96 Sft
c.w1	3 x 1 1/2	x	--	x	1.5 =	7 Sft
Total: =						103 Sft
@	492.20	P.Sft				
	859.85					

880501/-
Rs. 80574/-

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

(i) i/c Providing and fixing Aluminium Fly screen comprising of Fiber / Aluminium wire gauze (Malasian) fixed in aluminium 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.

win W1	2 x 8	x	--	x	6 =	96 Sft
c.w1	3 x 1 1/2	x	--	x	1.5 =	7 Sft
Total: =						103 Sft
@	1841.45	P.Sft				

Rs. 189209/-

20

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

a) Full body Glazed tiles (i) 600 mm x 600 mm

OT	1 x	20 x	14.5 x	=	290 Sft
office	1 x	11.5 x	8.5 x	=	98 Sft
ver.	2 x	12 x	6 x	=	144 Sft
Store	1 x	35 x	12 x	=	420 Sft
	1 x	12 x	8.5 x	=	102 Sft
	1 x	12 x	7.5 x	=	90 Sft
	1 x	23 x	16 x	=	368 Sft
Total: =					1512 Sft
					@ 340.50 P.Sft

Rs. 514751/-

21

Providing and laying superb quality Porcelain glazed tiles of Master brand,skirting/dado of specified size,Color and Shade with adhesive/bondover 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 (i) 600 mm x 600 mm.

office	1x2	x(	20 +	14.5)x	4	=	276 Sft
office	1x2	x(	11.5 +	8.5)x	4	=	160 Sft
ver.	2x2	x(	12 +	6)x	4	=	288 Sft
bath	1x2	x(	35 +	12)x	4	=	376 Sft
office	1x2	x(	12 +	8.5)x	4	=	164 Sft
ver.	1x2	x(	12 +	7.5)x	4	=	156 Sft
bath	1x2	x(	23 +	16)x	4	=	312 Sft
Total: =							1732 Sft
							@ 340.50

Rs. 589746/-

22

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.

i) 12"x18"/12"x24"/10"x24" / 8"x24"/12"x36"

bath	1 x	8 x	8 x	=	64 Sft
	2 x	6 x	6 x	=	72 Sft
Total: =					136 Sft
					@ 239.90 P.Sft

Rs. 32626/-

23

Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approve Color and Shade with adhesive bond over 1/2"thick (1:2) cemen plaster i/c the cost of sealer for finishing the joints i/c cutting grindin complete in all respects as approved and directed by the Engineer in charge.

i) 12"x18"/12"x24"/10"x24" / 8"x24"/12"x36"

1x2	x(	8 +	8)x	7	=	224 Sft
2x2	x(	6 +	6)x	7	=	336 Sft
Total: =						<u>560 Sft</u>
					@ 292.65	P.Sft

Rs. 163884/-

24

1/2" thick cement plaster 1:4 on walls upto 20' height.

2 x	17 x	10 x	=	340 sft	
2 x	9 x	5 x	=	90 sft	
2 x	5 x	8 x	=	80 sft	
2x1 x(20 +	14.5)x	6	=	414 Sft
2x1 x(11.5 +	8.5)x	10	=	400 Sft
2x1 x(8 +	8)x	7	=	224 Sft
Total: =				1548 Sft	
				@ 3241.60 %	

Rs. 50180/-


Detail of Additional Items Eye Ward

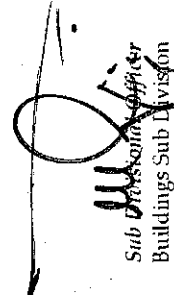
Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
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- 1 Providing and fixing openable door comprising of 3mm thick upvc hollow profile chowkat frame of 60 mm x 64mm leaf 60mmx106mm both duly reinforced with g.i box frame inside with 20 mm wide panel grooves on both sides as per approved and directed by Engineer in charge (Analysis attached).

2 x 2 1/2 x 7 x = 35 Sft
Total: = 35 Sft

@ 1200/- = 42000/-


Sub Engineer


Sub Division Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Electric Installation Eye Ward

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
--------	-------------	----	--------	---------	-------	----------	--------

1	Supply and Erection of PVC pipe for wiring on recessed i/c inspection boxes pull boxes hook bends reducer and prepping surface etc complete. 3/4" dia	4 x 22	x	x	=	88 Rft	Rs. 7190/-
					Total: =	88 Rft	
					@ 81.70	P.Rft	
2	Supply and erection of single core PVC insulated copper conductor cables, in pre-laid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing and capping/G.I wire /trenches (rate for cables only):- a) 250/440 volts, PVC insulated:						
(i)	3/0.029"	1 x 120	x	x	=	120 Rft	
		2 x 200	x	x	=	400 Rft	
					Total: =	520 Rft	
					@ 25.70	P.Rft	Rs. 13364/-
(ii)	7/0.029"	5 x 80	x	x	=	400 Rft	
					Total: =	400 Rft	
					@ 40.75	P.Rft	Rs. 16300/-
iii	7/0.036"	3 x 100	x	x	=	300 Rft	
					Total: =	300 Rft	
					@ 53.90	P.Rft	Rs. 16140/-
3	Supply & Erection of switch piano type 5 Amp.						
		1 x 25	x	x	=	25 Nos.	
					Total: =	25 Nos.	
					@ 72.00	P.Each	Rs. 1800/-
4	Supply and erection of 3 pin. 5 Amp wall socket.						
		1 x 8	x	x	=	8 Nos.	
					Total: =	8 Nos.	
					@ 134.10	P.Each	Rs. 1073/-
5	Supply and erection of LED Bulb 18 watt best quality as approved by the engineer incharge						
		1 x 50	x	x	=	50 Nos.	
					Total: =	50 Nos.	
					@ 750.00	P.Each	Rs. 37500/-

P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of 3 switches / sockets / dimmer made of Hi-Life / Bush / Schneider, screws complete as approved and directed by the Engineer Incharge

(a) One way Gange Switch

Small

(iii) 03 Gange	5	745.8	3729
(iv) Three pin Light Plug 10/13 Amp	5	613.8	3069
(vi) Fan Dimmer	4	601.8	2407.2
(vii) Bell push	3	481.8	1445.4
(viii) Three Pin Power Plug 15-32 Amp	5	757.8	3789

Large

(i) 04 Gange	4	805.8	3223.2
(iii) 06 Gange	3	1,165.80	3497.4

P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).

1	x	1	x	x	=	1 Nos.
					Total: =	1 Nos.
					@ 41912.65	P.Each

Rs. 41913/-

Add 3% Contingency:-

Total:	Rs. 445835/-	15431/-
	Rs. 444697/-	4693/-
Total:	Rs. 445835/-	16130/-
Say :	Rs. 144600/-	

Nudecm
Sub Engineer
Buildings Sub Division
101 Adarsh

M. Garh
Executive Engineer
Buildings Division

Sanitary Installation Eye Ward

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
1	Providing,laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBI) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned)i- PN 20						
	(iii)(1") 32 mm	1 x 100	x --	x --	=	100 Rft	
		3 x 40	x --	x --	=	120 Rft	
					Total: =	220 Rft	Rs. 23518/-
					@ 106.90	P.Rft	
2	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.						
		1 x 5	x --	x --	=	5 No.	
					Total: =	5 No.	
					@ 2228.75	P.Each	Rs. 11144/-
3	P/F Plastic made low down flushing cistern 3-gallon capacity i/c bracket set, waste pipe and waste coupling Coloured.						
		1 x 3	x --	x --	=	3 No.	
					Total: =	3 No.	
					@ 4029.10	P.Each	Rs. 12087/-
4	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.						
	i) white, with pedestal	1 x 3	x --	x --	=	3 No.	
					Total: =	3 No.	
					@ 5169.95	P.Each	Rs. 15510/-
5	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.						
		1 x 3	x --	x --	=	3 No.	
					Total: =	3 No.	
					@ 13915.80	P.Each	Rs. 41747/-
6	Providing and fixing, "P" trap (glazed) 4" dia.						
		1 x 12	x --	x --	=	12 No.	
					Total: =	12 No.	
					@ 283.10	P.Each	Rs. 3397/-
7	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-						
		1 x 12	x --	x --	=	12 No.	
					Total: =	12 No.	
					@ 627.75	P.Each	Rs. 7533/-
8	Providing and fixing brass stop cock/bib cock:-a) 15 mm (½") dia						
		1 x 12	x --	x --	=	12 No.	
					Total: =	12 No.	
					@ 553.75	P.Each	Rs. 6645/-
9	Providing and fixing, gully trap of cast iron, including concrete chamber all round, and C.I. grating:-						
		1 x 12	x --	x --	=	12 No.	
					Total: =	12 No.	
					@ 627.75	P.Each	Rs. 7533/-

10 Providing, laying, cutting, jointing, testing and disinfecting Providing and installing specials pipe line in trenches with PVC/ uPVC pipes of B.S.S. with 'D' and valves is not included in the Class working pressure complete in all respects:-4" i/d (100 mm)

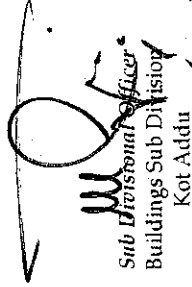
12 x 15 x -- = 180 No.
Total: = 180 No.
@ 757.95 P.Each Rs. 136431/-

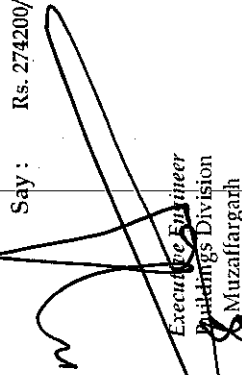
11 Providing and installing P.V.C. bends, of B.S.S. i) Class 'B' working pressure:- 4" i/d (100 mm)

1 x 16 x -- = 16 No.
Total: = 16 No.
@ 543.55 P.Each Rs. 8697/-

Total: Rs. 274242/-


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Say: Rs. 274200/-

ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF TEHSIL HEAD
QUARTER HOSPITAL KOT ADU DISTRICT MUZAFFARGARH"

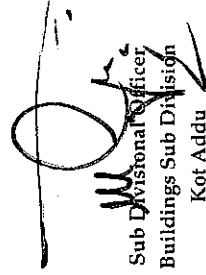
GENERAL ABSTRACT OF COST

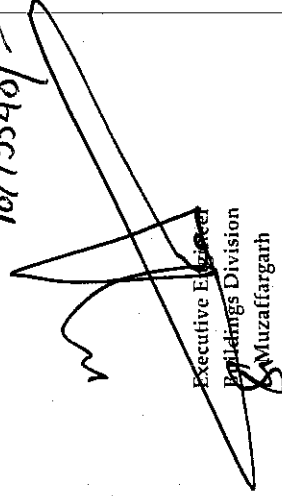
- 1 Renovation/Rehabilitation of Main Building (Operation Theatre)
- 2 Electric Installation
- 3 Sanitary Installation

9783355/-
~~5224800/-~~
= Rs. 5443700/-
747405/-
= Rs. 734900/-
= Rs. 262800/-

Total = Rs. 6441400/-
~~6222500/-~~
10793548/-


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Detail of Operation Theatre

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
1	Dismantling glazed or encaustic tiles, etc.						
	flooring	1 x	20 x	15.5	=	310 Sft	
		1 x	20.5 x	20.5	=	420 Sft	
		1 x	7 x	6	=	42 Sft	
	skirting	2x1 x(	20 +	15.5)x	4 =	284 Sft	
		2x1 x(	20.5 +	20.5)x	4 =	328 Sft	
		2x1 x(	7 +	6)x	5 =	130 Sft	
		2x1 x(	11.5 +	16)x	4 =	220 Sft	
		2x1 x(	11.5 +	6)x	4 =	140 Sft	
					Total: =	1874 Sft	
					@ 2335.85	%Sft	Rs. 43780/-
2	Dismantling lime or cement concrete, under water. c)						
	Dismantling cement concrete 1:2:4 plain.						
	tiles flooring	1 x	11.5 x	8 x	1/8 =	12 Cft	
		1 x	11.5 x	7.5 x	1/8 =	11 Cft	
		1 x	11.5 x	6 x	1/8 =	9 Cft	
		1 x	7 x	6 x	1/8 =	5 Cft	
	flagged flooring	1 x	5 x	5.25 x	1/8 =	3 Cft	
		1 x	11 1/2 x	16 x	1/8 =	23 Cft	
		1 x	11 1/2 x	15 x	1/8 =	22 Cft	
		2 x	7 x	35 x	1/8 =	61 Cft	
		1 x	7 x	15.5 x	1/8 =	14 Cft	
		1 x	16 x	16 x	1/8 =	32 Cft	
		1 x	16 x	8.5 x	1/8 =	17 Cft	
		1 x	10 x	7 x	1/8 =	9 Cft	
		1 x	10 x	7 x	1/8 =	9 Cft	
		1 x	12 x	11 x	1/8 =	17 Cft	
		1 x	7 x	5 x	1/8 =	4 Cft	
		1 x	8 x	5.25 x	1/8 =	5 Cft	
					Total: =	251 Cft	
					@ 11174.60	%Cft	Rs. 28079/-
3	Removing cement or lime plaster						
	flagged flooring	1 x	20 x	10 x	=	200 sft	
		1 x	11.5 x	5 x	=	58 sft	
		1 x	12 x	8 x	=	96 sft	
		2x1 x(	20.5 +	20.5)x	8 =	656 Sft	
		2x1 x(	12 +	11)x	5 =	230 Sft	
		2x1 x(	7 +	5)x	6 =	144 Sft	
					Total: =	1383.50	
					@ 423.30	%sft	Rs. 5856/-
4	Scraping:-White wash or colour wash.						
		1 x	11.5 x	8 x	=	92 sft	
		1 x	11.5 x	7.5 x	=	86 sft	
		1 x	11.5 x	6 x	=	69 sft	
		1 x	5.25 x	6.75 x	=	35 sft	
		1 x	7 x	6 x	=	42 sft	
		1 x	11 1/2 x	16 x	=	184 sft	
		1 x	11 1/2 x	15 x	=	173 sft	
		2 x	7 x	35 x	=	490 sft	
		1 x	7 x	15.5 x	=	109 sft	
		1 x	20 x	15.5 x	=	310 sft	
		1 x	16 x	16 x	=	256 sft	
		1 x	8 1/2 x	16 x	=	132 sft	
		1 x	10 x	7 x	=	70 sft	
		1 x	10 x	7 x	=	70 sft	
		1 x	20 1/2 x	20.5 x	=	420 sft	
		1 x	12 x	11 x	=	132 sft	
		1 x	7 x	5 x	=	35 sft	
		1 x	5 1/2 x	6 x	=	32	
		2x1 x(	11.5 +	8)x	8 =	312 Sft	
		2x1 x(	11.5 +	7.5)x	8 =	304 Sft	
		2x1 x(	11.5 +	6)x	8 =	280 Sft	
		2x2 x(	5.25 +	6.75)x	8 =	384 Sft	
		2x1 x(	7 +	6)x	8 =	208 Sft	
		2x1 x(	11 1/2 +	16)x	8 =	440 Sft	

2x1	x(	11 1/2 +	15)x	8	=	424 Sft
2x1	x(	7 +	35)x	8	=	672 Sft
2x1	x(	7 +	15.5)x	8	=	360 Sft
2x1	x(	20 +	15.5)x	8	=	568 Sft
2x1	x(	16 +	16)x	8	=	512 Sft
2x1	x(	8 1/2 +	16)x	8	=	388 Sft
2x2	x(	10 +	7)x	8	=	544 Sft
2x1	x(	10 +	7)x	8	=	272 Sft
2x1	x(	20 1/2 +	20.5)x	8	=	656 Sft
2x1	x(	12 +	11)x	8	=	368 Sft
2x1	x(	7 +	5)x	8	=	192 Sft
2x1	x(	5 1/2 +	6)x	8	=	180 Sft

Total: = ~~7033.9888~~ sft
@ 253.95 %Cft

5 Removing door with chowkat.

1 x ~~20~~ 10 Nos.
Total: = ~~10~~ 20 Nos.
@ 438.00 P-No.

17860/-
Rs. 24888/-

6 Removing windows and sky light with chowkat.

1 x 14
Total: = 14 Nos.
@ 341.50 P-No.

4390/-
Rs. 8760/-

Rs. 4781/-

7 Supply anf filling sand under floor or plugging in wells.

1 x	11.5 x	8 x	1/3 =	30 cft
1 x	11.5 x	7.5 x	1/3 =	28 cft
1 x	11.5 x	6 x	1/3 =	23 cft
1 x	5.25 x	6.75 x	1/3 =	12 cft
1 x	7	6 x	1/3 =	14 cft
1 x	11 1/2 x	16 x	1/3 =	61 cft
1 x	11 1/2 x	15 x	1/3 =	57 cft
2 x	7	35 x	1/3 =	162 cft
1 x	7	15.5 x	1/3 =	36 cft
1 x	20	15.5 x	1/3 =	102 cft
1 x	16	16 x	1/3 =	84 cft
1 x	8 1/2 x	16 x	1/3 =	44 cft
1 x	10	7 x	1/3 =	23 cft
1 x	10	7 x	1/3 =	23 cft
1 x	20 1/2 x	20.5 x	1/3 =	139 cft
1 x	12	11 x	1/3 =	44 cft
1 x	7	5 x	1/3 =	12 cft
1 x	5 1/2 x	6 x	1/3 =	10 cft
Total: =				903 Cft
				@ 2823.30 %Cft

Rs. 25495/-

8 Providing, laying, watering and ramming brick ballast 1 1/2" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.

1 x	11.5 x	8 x	1/3 =	30 Cft
1 x	11.5 x	7.5 x	1/3 =	28 Cft
1 x	11.5 x	6 x	1/3 =	23 Cft
1 x	5.25 x	6.75 x	1/3 =	12 Cft
1 x	7	6 x	1/3 =	14 Cft
1 x	11 1/2 x	16 x	1/3 =	61 Cft
1 x	11 1/2 x	15 x	1/3 =	57 Cft
2 x	7	35 x	1/3 =	162 Cft
1 x	7	15.5 x	1/3 =	36 Cft
1 x	20	15.5 x	1/3 =	102 Cft
1 x	16	16 x	1/3 =	84 Cft
1 x	8 1/2 x	16 x	1/3 =	44 Cft
1 x	10	7 x	1/3 =	23 Cft
1 x	10	7 x	1/3 =	23 Cft
1 x	20 1/2 x	20.5 x	1/3 =	139 Cft
1 x	12	11 x	1/3 =	44 Cft
1 x	7	5 x	1/3 =	12 Cft
1 x	5 1/2 x	6 x	1/3 =	10 Cft
Total: =				903 Cft
				@ 9284.40 %Cft

Rs. 83840/-

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

1 x	11.5 x	8 x	1/8 =	30 Cft
1 x	11.5 x	7.5 x	1/3 =	28 Cft
1 x	11.5 x	6 x	1/3 =	23 Cft
1 x	5.25 x	6.75 x	1/3 =	12 Cft
1 x	7 x	6 x	1/3 =	14 Cft
1 x	11 1/2 x	16 x	1/3 =	61 Cft
1 x	11 1/2 x	15 x	1/3 =	57 Cft
2 x	7 x	35 x	1/3 =	162 Cft
1 x	7 x	15.5 x	1/3 =	36 Cft
1 x	20 x	15.5 x	1/3 =	102 Cft
1 x	16 x	16 x	1/3 =	84 Cft
1 x	8 1/2 x	16 x	1/3 =	44 Cft
1 x	10 x	7 x	1/3 =	23 Cft
1 x	10 x	7 x	1/3 =	23 Cft
1 x	20 1/2 x	20.5 x	1/3 =	139 Cft
1 x	12 x	11 x	1/3 =	44 Cft
1 x	7 x	5 x	1/3 =	12 Cft
1 x	5 1/2 x	6 x	1/3 =	10 Cft
Total: =				338.909 Cft
@				38126.10 %Cft

128968/-
Rs. 344288/-

10 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 mortar bed, complete in all respect as approved and directed by the Engineer Incharge.(f) 3/4" thick.

1 x	7 x	5 x		35 SFT
Total: =				35 SFT
@				1308.95 P-SFT

Rs. 45813/-

11 Providing and fixing all types of ~~partly~~ fixed and ~~partly~~ openable glazed anodized/ powder coated

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.

11 x	34 1/2 x 7			270.87
3 x	7 x	8.5 x		179 SFT
1 x	7 x	11.5 x		81 SFT
Total: =				530.259-SFT
@				4437.60 P-SFT
				502.20

266166/-
Rs. 372330/-

door hss

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

(f) 15 " wide

41 x	3 1/2 x	7 x		520 Sft
Total: =				520sft
@				1511.85 P-Sft
				721.05

385337/-
Rs. 442894/-

13 Providing and fixing M.S. flat 1/2"x1/8" (13mm x 3mm) grill including 1/4" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.

7 x	2 x	--	x	4 =	56 Sft
9 x	2 x	--	x	1.5 =	27 Sft
1 x	18 x	--	x	10 =	180 Sft
1 x	18 x	--	x	10 =	180 Sft

3 x	7 1/2 x --	x	4 =	90 Sft
3 x	7 1/2 x --	\	1.5 =	34 Sft

Total: = @ 492.20/-
567 Sft
850-85

Rs. 278954/-
684700/-

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

(i) i/c Providing and fixing Aluminium Fly screen comprising of Fiber / Aluminium wire gauze (Malasian) fixed in aluminium 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 Hardware as approved and directed by the engineer incharge. complete in all respect.

567 SFT
⇒ @ Rs. 1348/40 P/SFT Rs. 764200/-

567/2=7 283 SFT
⇒ @ Rs. 493/05 P/SFT Rs. 139718/-

7 x	2 x --	x	4 =	56 Sft
9 x	2 x --	x	1.5 =	27 Sft
1 x	18 x --	x	10 =	180 Sft
1 x	18 x --	x	10 =	180 Sft
3 x	7 1/2 x --	x	4 =	90 Sft
3 x	7 1/2 x --	x	1.5 =	34 Sft

Total: = @ 1841.45 P.Sft
567 Sft

Rs. 1043642/-

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

a) Full body Glazed tiles (i) 600 mm x 600 mm

OT	1 x	11.5 x	8 x	92 Sft
office	1 x	11.5 x	7.5 x --	86 Sft
ver.	1 x	11.5 x	6 x --	69 Sft
Store	1 x	5 x	6.75 x --	34 Sft
	1 x	11.5 x	16 x --	184 Sft
	1 x	11.5 x	15 x --	173 Sft
	1 x	7 x	15.5 x --	109 Sft
	1 x	16	16 x --	256 Sft
	1 x	8.5	16 x --	136 Sft
	1 x	10	7 x --	70 Sft
	1 x	10	7 x --	70 Sft
	1 x	12	11 x --	132 Sft
	1 x	7.75	5.25 x --	41 Sft
	1 x	7	35 x --	245 Sft
	1	20.5	15.5 x --	318 Sft
	1	20.5	20.5 x --	420 Sft

Total: = @ 340.50 P.Sft
2434 Sft

Rs. 828671/-

16 Providing and laying superb quality Porcelain glazed tiles of Master brand,skirting/dado of specified size,Color and Shade with adhesive/bondover 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 (i) 600 mm x 600 mm.

1x2 x(	11.5 +	8)x	4	156 Sft
1x2 x(	11.5 +	7.5)x	4	152 Sft
2X2 x(	11.5 +	6)x	4	280 Sft
1x2 x(	5 +	6.75)x	4	94 Sft
1x2 x(	11.5 +	16)x	4	220 Sft
1x2 x(	11.5 +	15)x	4	212 Sft
1x2 x(	7 +	15.5)x	4	180 Sft
1x2 x(	16 +	16)x	4	256 Sft
1x2 x(	8.5 +	16)x	4	196 Sft
1x2 x(	10 +	7)x	4	136 Sft
1x2 x(	10 +	7)x	4	136 Sft
1x2 x(	12 +	11)x	4	184 Sft
1x2 x(	7.75 +	5.25)x	4	104 Sft

1x2 x(	7 +	35)x	4 =	336 Sft
1x2 x(	20.5	15.5)x	4 =	288 Sft
1x2 x(	20.5	20.5)x	4 =	328 Sft

170203504
Total: = 3258 Sft - 476 = 2782 Sft

@ 340.50 P.Sft

Rs. 947271/-

17 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.

i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

bath

2 x	7 x	6 x	=	84 Sft
1 x	5 x	5 x	=	25 Sft

Total: = 109 Sft

@ 239.90 P.Sft

Rs. 26149/-

18 Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,

Glossy/Matt/Texture skirting/dado of approve Color and Shade with adhesive bond over 1/2"thick (1:2) cemen plaster i/c the cost of sealer for finishing the joints i/c cutting grindin complete in all respects as approved and directed by the Engineer In charge.

i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

bath

2x2 x(	7 +	6)x	7 =	364 Sft
1x2 x(	5 +	5)x	7 =	140 Sft

Total: = 504 Sft

@ 292.65 P.Sft

Rs. 147496/-

19

1/2" thick cement plaster 1:4 on walls upto 20' height.

1 x	20 x	10 x	=	200 sft
1 x	11.5 x	5 x	=	58 sft
1 x	12 x	8 x	=	96 sft
2x1 x(	20.5 +	20.5)x	8 =	656 Sft
2x1 x(	12 +	11)x	5 =	230 Sft
2x1 x(	7 +	5)x	6 =	144 Sft

Total: = 1384 Sft

@ 3241.60 %Sft

Rs. 44848/-

20 Preparing surface and painting with emulsion paint:-
02 coat on new surface.

1 x	11.5 x	8 x	=	92 sft
1 x	11.5 x	7.5 x	=	86 sft
1 x	11.5 x	6 x	=	69 sft
1 x	5.25 x	6.75 x	=	35 sft
1 x	7 x	6 x	=	42 sft
1 x	11 1/2 x	16 x	=	184 sft
1 x	11 1/2 x	15 x	=	173 sft
2 x	7 x	35 x	=	490 sft
1 x	7 x	15.5 x	=	109 sft
1 x	20 x	15.5 x	=	310 sft
1 x	16 x	16 x	=	256 sft
1 x	8 1/2 x	16 x	=	132 sft
1 x	10 x	7 x	=	70 sft
1 x	10 x	7 x	=	70 sft
1 x	20 1/2 x	20.5 x	=	420 sft
1 x	12 x	11 x	=	132 sft
1 x	7 x	5 x	=	35 sft
1 x	5 1/2 x	6 x	=	32
2x1 x(	11.5 +	8)x	8 =	312 Sft
2x1 x(	11.5 +	7.5)x	8 =	304 Sft
2x1 x(	11.5 +	6)x	8 =	280 Sft
2x2 x(	5.25 +	6.75)x	8 =	384 Sft
2x1 x(	7 +	6)x	8 =	208 Sft
2x1 x(	11 1/2 +	16)x	8 =	440 Sft
2x1 x(	11 1/2 +	15)x	8 =	424 Sft
2x1 x(	7 +	35)x	8 =	672 Sft
2x1 x(	7 +	15.5)x	8 =	360 Sft
2x1 x(	20 +	15.5)x	8 =	568 Sft
2x1 x(	16 +	16)x	8 =	512 Sft

2x1	x(	8 1/2	+	16	)x	8	=	388 Sft
2x2	x(	10	+	7	)x	8	=	544 Sft
2x1	x(	10	+	7	)x	8	=	272 Sft
2x1	x(	20 1/2	+	20.5	)x	8	=	656 Sft
2x1	x(	12	+	11	)x	8	=	368 Sft
2x1	x(	7	+	5	)x	8	=	192 Sft
2x1	x(	5 1/2	+	6	)x	8	=	180 Sft

D/d dpo - 530 + 567 = 1097 sft
 1151.55 +

Total: =

@ 883.1 =

Total: = 9800 sft - 1097 sft = 8703 sft
 Rs. 199405/- 177076/-

Total

Rs. 5265179/-
 957343/441155/-

Add 3% Contingency:-

Rs. 158555/-
 754504/-

D/d old material

Total:

Rs. 5442723/- 549982/-

9498403/-

Say:

Rs. 5442700/-

NET Total

75000/-

3.1 Contingency = 1324855/-

Rs. 5442700/-

W 2849821/-

Rs. 5442700/-

Total = 1548640/-

9783353/-

Sub Engineer

Kot Addu

Sub Division Officer
 Buildings Sub Division
 Kot Addu

Executive Engineer
 Buildings Division
 Muzaffargarh

Detail of Additional Items Operation Theatre

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
--------	-------------	----	--------	---------	-------	----------	--------

- 1 Providing and fixing operable door comprising of 3mm thick upvc hollow profile chowkat frame of 60 mm x 64mm leaf 60mmx106mm both duly reinforced with g.i box frame inside wide with 20 mm wide panel grooves on both sides as per approved and directed by Engineer in charge.

3 x 21 1/2 x 7 x

= 53 Sft
Total: = 53 Sft

@ 1042 = 55226/-

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

1 x 20 1/2 x -- x
1 x 20 1/2 x -- x

20.5 = 420 sft
15.5 = 318 sft
Total: = 738 sft

@ 1134 = 836892/-

- 3 Supply and installation of clip-in tiles of specified thickness non-porous Aluminum flase ceiling of specified size fitted with Clip-in suspension system hanged on concealed T/Shiplap edge/runners as approved and directed by the Engineer In-charge @ 600mm x600mm 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 cilicon if required of DAMPA/DEmark, as approved and directed by the Engineer incharge.

1 x 20 1/2 x -- x
1 x 20 1/2 x -- x

20.5 = 420 sft
15.5 = 318 sft
Total: = 738 sft

@ 945 = 697410/-

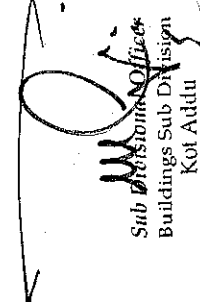
- 4 Supply and installation premium graded/scratch-resistant Hygenic anti-microbial Pvc wall cladding of 2.5mm thick duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall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

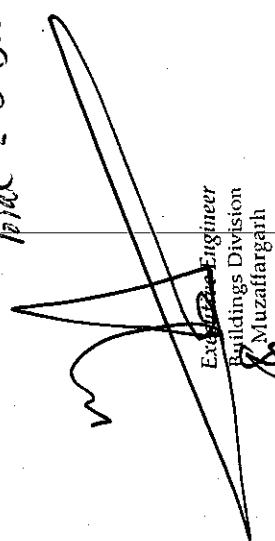
1x2 x(20.5 + 20.5 +
1x2 x(20.5 + 20.5 +

12 = 984 Sft
12 = 864 Sft
Total: = 1848 Sft

@ 1890 = 3492720/-
Total = 5082248/-


Sub Engineer


Sub Division Officer
Buildings Sub Division
Kot Addu


Engineer
Buildings Division
Muzaffargarh

Electric Installation Operation Theatre

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
1	Supply and Erection of PVC pipe for wiring on ressed i/c inspection boxes pull boxes hook bends reducer and preparing surface etc complete. 3/4" dia	10 x 30	x	x	=	300 Rft Total: = 300 Rft @ 81.70 P.Rft	Rs. 24510/-
2	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/ wooden strip batten/ wooden casing and capping/G.I wire /trenches (rate for cables only):- a) 250/440 volts, PVC insulated:	13 x 118 20 x 200	x	x	=	1534 Rft 4000 Rft Total: = 5534 Rft @ 25.70 P.Rft	Rs. 142224/-
	(ii) 7/0.029"	5 x 600	x	x	=	3000 Rft Total: = 3000 Rft @ 40.75 P.Rft	Rs. 122250/-
	iii 7/0.036"	8 x 100	x	x	=	800 Rft Total: = 800 Rft @ 53.80 P.Rft	Rs. 43040/-
3	Supply & Erection of switch piano type 5 Amp.	1 x 70	x	x	=	70 Nos. Total: = 70 Nos. @ 72.00 P.Each	Rs. 5040/-
4	Supply and erection of 3 pin. 5 Amp wall socket.	1 x 20	x	x	=	20 Nos. Total: = 20 Nos. @ 134.10 P.Each	Rs. 2682/-
5	Providing and fixing high quality LED SMD Panel Light 2 ftx2 ft of 48 watt/4000 k wattage and Luminous flux with Polystyrene bowl/ prismatic cover made of Philips as approved and directed by the Engineer Incharge.	1 x 13	x	x	=	15 Nos. Total: = 15 Nos. @ 14820.00 P.Each	Rs. 222300/-
6	Supply and erection of LED Bulb 18 watt best quality as approved by the engineer incharge	1 x 100	x	x	=	100 Nos. Total: = 100 Nos. @ 750.00 P.Each	Rs. 75000/-
7	Supply and Erection of button holder backlite large size.	1 x 100	x	x	=	100 Nos. Total: = 100 Nos. @ 53.75 P.Each	Rs. 5375/-
8							Rs. 1498/-
03	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schneider, screws complete as approved and directed by the Engineer Incharge						
	(a) One way Gange Switch						
	Small						
	(iii) 03 Gange	5				745.8	3729
	(iv) Three pin Light Plug 10/13 Amp	5				613.8	3069
	(vi) Fan Dimmer	4				601.8	2407.2
	(vii) Bell push	3				481.8	1445.4
	(viii) Three Pin Power Plug 15-32 Amp	5				757.8	3789
	Large						
	(i) 04 Gange	4				805.8	3223.2
	(iii) 06 Gange	3				1,165.80	3497.4

P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, 1/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).

1 x 2 x x = 2 Nos.
Total: = 2 Nos.
@ 41912.65 P.Each

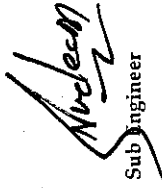
Rs. 83825/-

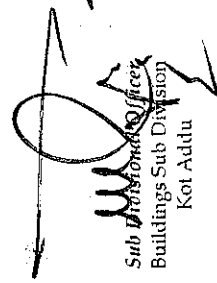
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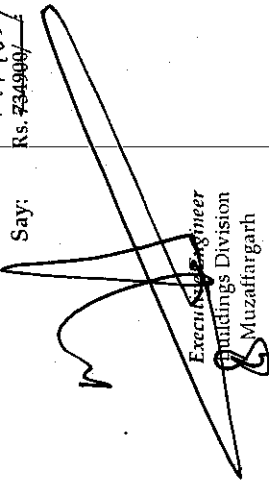
Rs. 734900/-

Say:

Rs. 734900/-


Sub Engineer


Sub Divisional Engineer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Sanitary Installation Operation Theatre

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
1	Providing,laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBf) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned) i- PN 20 (iii)(1") 32 mm	3 x 100 2 x 40	x -- x --	x -- x --	= =	300 Rft 80 Rft Total: = 380 Rft	P.Rft @ 106.90 Rs. 40622/-
2	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	1 x 10	x --	x --	=	10 No. Total: = 10 No.	P.Each @ 2228.75 Rs. 2228/-
3	P/F Plastic made low down flushing cistern 3-gallon capacity i/c bracket set, waste pipe and waste coupling Coloured.	1 x 2	x --	x --	=	2 No. Total: = 2 No.	P.Each @ 4029.10 Rs. 8058/-
4	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal	1 x 2	x --	x --	=	2 No. Total: = 2 No.	P.Each @ 5169.95 Rs. 10340/-
5	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	1 x 1	x --	x --	=	1 No. Total: = 1 No.	P.Each @ 13915.80 Rs. 13916/-
6	Providing and fixing, "P" trap (glazed) 4" dia.	1 x 15	x --	x --	=	15 No. Total: = 15 No.	P.Each @ 283.10 Rs. 4247/-
7	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-	1 x 15	x --	x --	=	15 No. Total: = 15 No.	P.Each @ 627.75 Rs. 9416/-
8	Providing and fixing brass stop cock/bib cock:-a) 15 mm (1/2") dia	1 x 12	x --	x --	=	12 No. Total: = 12 No.	P.Each @ 553.75 Rs. 6645/-

9

Providing and fixing, gully trap of cast iron, including concrete chamber all round, and C.I. grating:-

1 x	12	x	--	x	--	=	12 No.
Total: =							12 No.
@ 627.75							P.Each
							Rs. 7533/-

10 Providing, laying, cutting, jointing, testing and disinfecting Providing and installing specials pipe line in trenches with PVC/ uPVC pipes of B.S.S. with 'D' and valves is not included in the Class working pressure complete in all respects:-4" i/d (100 mm)

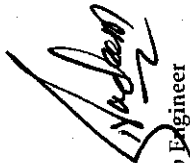
10 x	17	x	--	x	--	=	170 No.
Total: =							170 No.
@ 757.95							P.Each
							Rs. 128852/-

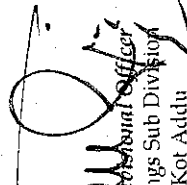
11 Providing and installing P.V.C. bends, of B.S.S. i) Class 'B' working pressure:- 4" i/d (100 mm)

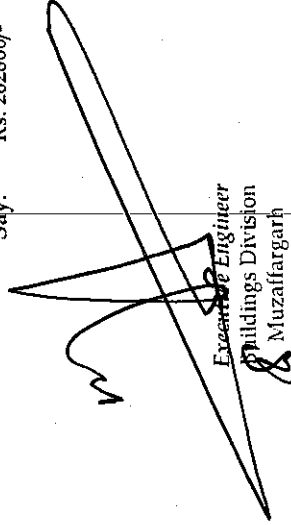
1 x	20	x	--	x	--	=	20 No.
Total: =							20 No.
@ 543.55							P.Each
							Rs. 10871/-

Total: Rs. 262789/-

Say: Rs. 262800/-


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Detail of Emergency

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
1	Dismantling glazed or encaustic tiles, etc.						
	flooring						
		2 x	20.5 x	19	=	779 Sft	
		1 x	10 x	12	=	120 Sft	
		2 x	4 x	4	=	32 Sft	
		1 x	6 x	5	=	30 Sft	
		1 x	10 x	12	=	120 Sft	
		1 x	10 x	19	=	190 Sft	
		1 x	9 x	19	=	171 Sft	
		1 x	10 x	19	=	190 Sft	
		1 x	13 x	19	=	247 Sft	
		1 x	7 x	7.25	=	51 Sft	
		2 x	3.125 x	5	=	31 Sft	
		2 x	3.125 x	5	=	31 Sft	
		1 x	7 x	5.625	=	39 Sft	
		1 x	133 x	8	=	1064 Sft	
		3 x	5 x	5	=	75 Sft	
		1 x	7 x	9	=	63 Sft	
		1 x	13 x	19	=	247 Sft	
		1 x	17.5 x	10	=	175 Sft	
		1 x	5 x	22	=	1100 Sft	
		1 x	13.5 x	19	=	295 Sft	
		1 x	10 x	12	=	120 Sft	
		1 x	12 x	8	=	96 Sft	
		1 x	13.5 x	12	=	186 Sft	
		1 x	6 x	5	=	30 Sft	
		1 x	6 x	8.5	=	51 Sft	
		1 x	8 x	8.5	=	68 Sft	
		1 x	77 x	8	=	616 Sft	
		2 x	8 x	8	=	128 Sft	
		2 x	23 x	10	=	460 Sft	
		4 x	18 x	1	=	72 Sft	
	skirting	2x2 x(	20.5 +	19 x	4	=	632 Sft
		2x1 x(	10 +	12 x	4	=	176 Sft
		2x2 x(	4 +	4 x	5	=	160 Sft
		2x1 x(	6 +	5 x	5	=	110 Sft
		2x1 x(	10 +	12 x	4	=	176 Sft
		2x1 x(	10 +	19 x	1/2 =	29 Sft	
		2x1 x(	9 +	19 x	1/2 =	28 Sft	
		2x1 x(	10 +	19 x	1/2 =	58 Sft	
		2x1 x(	13 +	19 x	1/2 =	32 Sft	
		2x1 x(	7 +	7.25 x	5	=	143 Sft
		2x2 x(	3.125 +	5 x	5	=	163 Sft
		2x2 x(	3.125 +	5 x	5	=	163 Sft
		2x1 x(	7 +	5.625 x	5	=	126 Sft
		2x1 x(	133 +	8 x	4	=	1128 Sft
		2x3 x(	5 +	5 x	5	=	300 Sft
		2x1 x(	7 +	9 x	5	=	160 Sft
		2x1 x(	13 +	19 x	1/2 =	32 Sft	
		2x1 x(	17.5 +	10 x	1/2 =	28 Sft	
		2x1 x(	50 +	22 x	4	=	576 Sft
		2x1 x(	15.5 +	19 x	1/2 =	35 Sft	
		2x1 x(	10 +	12 x	1/2 =	22 Sft	
		2x1 x(	12 +	8 x	1/2 =	20 Sft	
		2x1 x(	15.5 +	12 x	1/2 =	28 Sft	
		2x1 x(	6 +	5 x	1/2 =	11 Sft	
		2x1 x(	6 +	8.5 x	1/2 =	15 Sft	
		2x1 x(	8 +	8.5 x	1/2 =	17 Sft	
		2x1 x(	77 +	8 x	4	=	680 Sft
		2x2 x(	8 +	8 x	1/2 =	32 Sft	
		2x2 x(	23 +	10 x	1/2 =	66 Sft	
		2x4 x(	18 +	1 x	1/2 =	76 Sft	
		2x1 x(	8 +	8 x	1/2 =	16 Sft	
					Total: =	5234 Sft	
					@	2335.85 %Sft	

2 Dismantling line or cement concrete, under water. c)
Dismantling cement concrete 1:2:4 plain.

flooring	2 x	20.5 x	19 x	1/8 =	97 Cft
	1 x	10 x	12 x	1/8 =	15 Cft
	2 x	4 x	4 x	1/8 =	4 Cft
	1 x	6 x	5 x	1/8 =	4 Cft
	1 x	10 x	12 x	1/8 =	15 Cft
	1 x	10 x	19 x	1/8 =	24 Cft
	1 x	9 x	19 x	1/8 =	21 Cft

1 x	10 x	19 x	1/8 =	24 Cft	
1 x	13 x	19 x	1/8 =	31 Cft	
1 x	7 x	7.25 x	1/8 =	6 Cft	
2 x	3.125 x	5 x	1/8 =	4 Cft	
2 x	3.125 x	5 x	1/8 =	4 Cft	
1 x	7 x	5.625 x	1/8 =	5 Cft	
1 x	133 x	8 x	1/8 =	133 Cft	
3 x	5 x	5 x	1/8 =	9 Cft	
1 x	7 x	9 x	1/8 =	8 Cft	
1 x	13 x	19 x	1/8 =	31 Cft	
1 x	17.5 x	10 x	1/8 =	22 Cft	
1 x	50 x	22 x	1/8 =	138 Cft	
1 x	15.5 x	19 x	1/8 =	37 Cft	
1 x	10 x	12 x	1/8 =	15 Cft	
1 x	12 x	8 x	1/8 =	12 Cft	
1 x	15.5 x	12 x	1/8 =	23 Cft	
1 x	6 x	5 x	1/8 =	4 Cft	
1 x	6 x	8.5 x	1/8 =	6 Cft	
1 x	8 x	8.5 x	1/8 =	9 Cft	
1 x	77 x	8 x	1/8 =	77 Cft	
2 x	8 x	8 x	1/8 =	16 Cft	
2 x	23 x	10 x	1/8 =	58 Cft	
4 x	18 x	1 x	1/8 =	9 Cft	
Total: @				11174.60	%Cft
				Rs. 96061/-	

3 Dismantling 2nd class tiles roofing,

1 x	80 x	50 x	=	4000 Sft	
2 x	20 x	20 x	=	800 Sft	
2 x	50 x	30 x	=	3000 Sft	
Total: @				1269.85	%Sft
				Rs. 99048/-	

4 Providing and laying roof insulation, comprising of single layer of tiles 9"x4 1/2"x1 1/2" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:-iii) Thermopore sheet 1" (25 mm) thick

1 x	80 x	50 x	=	4000 Sft	
2 x	20 x	20 x	=	800 Sft	
2 x	50 x	30 x	=	3000 Sft	
Total: @				14693.50	%Sft
				Rs. 1146093/-	
1 x	x	4 x	=	4 Nos.	
Total: @				854.35	P.Each
				Rs. 3417/-	

5 Khurras on roof 2'x2'x6".

6 Scraping-White wash or colour wash.

2 x	20.5 x	19	=	779 Sft	
1 x	10 x	12	=	120 Sft	
2 x	4 x	4	=	32 Sft	
1 x	6 x	5	=	30 Sft	
1 x	10 x	12	=	120 Sft	
1 x	10 x	19	=	190 Sft	
1 x	9 x	19	=	171 Sft	
1 x	10 x	19	=	190 Sft	
1 x	13 x	19	=	247 Sft	
1 x	7 x	7.25	=	51 Sft	
2 x	3.125 x	5	=	31 Sft	
2 x	3.125 x	5	=	31 Sft	
1 x	7 x	5.625	=	39 Sft	
1 x	133 x	8	=	1064 Sft	
3 x	5 x	5	=	75 Sft	
1 x	7 x	9	=	63 Sft	
1 x	13 x	19	=	247 Sft	
1 x	17.5 x	10	=	175 Sft	
1 x	50 x	22	=	1100 Sft	
1 x	15.5 x	19	=	295 Sft	
1 x	10 x	12	=	120 Sft	
1 x	12 x	8	=	96 Sft	
1 x	15.5 x	12	=	186 Sft	
1 x	6 x	5	=	30 Sft	
1 x	6 x	8.5	=	51 Sft	
1 x	8 x	8.5	=	68 Sft	
1 x	77 x	8	=	616 Sft	
2 x	8 x	8	=	128 Sft	
2 x	23 x	10	=	460 Sft	
2x2 x(	20.5 +	19)x	=	1738 Sft	
2x1 x(	10 +	12)x	=	484 Sft	
2x2 x(	4 +	4)x	=	362 Sft	

Walls

ROUGH COST ESTIMATE FOR THE WORK "REVAMPING OF TEHSIL HEAD
QUARTER HOSPITAL KOT ADU DISTRICT MUZAFFARGARH"

GENERAL ABSTRACT OF COST

1 Renovation/Rehabilitation of Main Building (Emergency Ward)

~~13403600/-~~ 12472745/-
= Rs. 13767100/-

2 Electric Installation

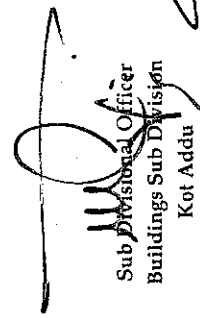
= Rs. 894400/- 906000/-

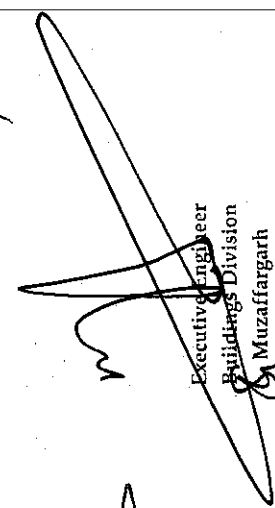
3 Sanitary Installation

= Rs. 943800/-

Total = Rs. 15605300/-
~~1524800/-~~ 14322581/-


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

2x1 x(	6 +	5 x	212 Sft
2x1 x(	10 +	12 x	484 Sft
2x1 x(	10 +	19 x	688 Sft
2x1 x(	9 +	19 x	616 Sft
2x1 x(	10 +	19 x	1276 Sft
2x1 x(	13 +	19 x	704 Sft
2x1 x(	7 +	7.25 x	374 Sft
2x2 x(	3.125 +	5 x	368 Sft
2x2 x(	3.125 +	5 x	368 Sft
2x1 x(	7 +	5.625 x	278 Sft
2x1 x(	133 +	8 x	3102 Sft
2x3 x(	5 +	5 x	660 Sft
2x1 x(	7 +	9 x	352 Sft
2x1 x(	13 +	19 x	704 Sft
2x1 x(	17.5 +	10 x	606 Sft
2x1 x(	50 +	22 x	1584 Sft
2x1 x(	15.5 +	19 x	739 Sft
2x1 x(	10 +	12 x	484 Sft
2x1 x(	12 +	8 x	440 Sft
2x1 x(	15.5 +	12 x	605 Sft
2x1 x(	6 +	5 x	242 Sft
2x1 x(	6 +	8.5 x	349 Sft
2x1 x(	8 +	8.5 x	343 Sft
2x1 x(	77 +	8 x	1870 Sft
2x2 x(	8 +	8 x	704 Sft
2x2 x(	23 +	10 x	1452 Sft
Total: =			253.95 %Sft
			Rs. 35573/-

7 Removing doors with chowkat.

1 x	32	32 Nos.
Total: =		32 Nos.

Rs. 14016/-

8 Removing windows and sky light with chowkat.

1 x	17	17 Nos.
Total: =		17 Nos.

Rs. 5806/-

9 Excavation in foundation of buildings, bridges and other structure 1/c watering and ramming lead upto one chain and lift up to 5' feet (in ordinary Soil).

2 x	24	2 x	11/2 =	144 Cft
2 x	200	2 x	11/2 =	1200 Cft
Total: =				1344 Cft

Rs. 14351/-

10 Dry rammed brick of stone ballast 1 1/2" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-

2 x	24	2 x	1/2 =	48 Cft
2 x	200	2 x	1/2 =	400 Cft

Total: =		448 Cft
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Rs. 39834/-

11 Pacca brick work in foundation and plinth in cement sand mortar having Ratio 1:6.

2 x	24	2 x	21/2 =	135 Cft
2 x	200	2 x	21/2 =	1125 Cft
Total: =				1260 Cft

Rs. 360092/-

12 S/F sand under floor or plugging in wells.

2 x	20.5 x	19	1/3 =	260 cft
1 x	10 x	12	1/3 =	40 cft
2 x	4 x	4	1/3 =	11 cft
1 x	6 x	5	1/3 =	10 cft
1 x	10 x	12	1/3 =	40 cft
1 x	10 x	19	1/3 =	63 cft
1 x	9 x	19	1/3 =	57 cft
1 x	10 x	19	1/3 =	63 cft
1 x	13 x	19	1/3 =	82 cft
1 x	7 x	7.25	1/3 =	17 cft
2 x	3.125 x	5	1/3 =	10 cft
2 x	3.125 x	5	1/3 =	10 cft
1 x	7 x	5.625	1/3 =	13 cft
1 x	133 x	8	1/3 =	355 cft
3 x	5 x	5	1/3 =	25 cft
1 x	7 x	9	1/3 =	21 cft
1 x	13 x	19	1/3 =	82 cft
1 x	17.5 x	10	1/3 =	58 cft
1 x	50 x	22	1/3 =	367 cft
1 x	15.5 x	19	1/3 =	98 cft
1 x	10 x	12	1/3 =	40 cft
1 x	12 x	8	1/3 =	32 cft

1 x	15.5 x	12	1/3 =	62 cft
1 x	6 x	5	1/3 =	10 cft
1 x	6 x	8.5	1/3 =	17 cft
1 x	8 x	8.5	1/3 =	25 cft
1 x	77 x	8	1/3 =	205 cft
2 x	8 x	8	1/3 =	43 cft
2 x	23 x	10	1/3 =	153 cft
2 x	200 x	6	1/3 =	800 cft
Total: =				3068 Cft
				@ 2823.30 %Cft

Rs. 86629/-

12 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.

2 x	20.5 x	19	1/3 =	260 cft
1 x	10 x	12	1/3 =	40 cft
2 x	4 x	4	1/3 =	11 cft
1 x	6 x	5	1/3 =	10 cft
1 x	10 x	12	1/3 =	40 cft
1 x	10 x	19	1/3 =	63 cft
1 x	9 x	19	1/3 =	57 cft
1 x	10 x	19	1/3 =	63 cft
1 x	13 x	19	1/3 =	82 cft
1 x	7 x	7.25	1/3 =	17 cft
2 x	3.125 x	5	1/3 =	10 cft
2 x	3.125 x	5	1/3 =	10 cft
1 x	7 x	5.625	1/3 =	13 cft
1 x	13 x	8	1/3 =	355 cft
3 x	5 x	5	1/3 =	25 cft
1 x	7 x	9	1/3 =	21 cft
1 x	13 x	19	1/3 =	82 cft
1 x	17.5 x	10	1/3 =	58 cft
1 x	50 x	22	1/3 =	367 cft
1 x	15.5 x	19	1/3 =	98 cft
1 x	10 x	12	1/3 =	40 cft
1 x	12 x	8	1/3 =	32 cft
1 x	15.5 x	12	1/3 =	62 cft
1 x	6 x	5	1/3 =	10 cft
1 x	6 x	8.5	1/3 =	17 cft
1 x	8 x	8.5	1/3 =	23 cft
1 x	77 x	8	1/3 =	205 cft
2 x	8 x	8	1/3 =	43 cft
2 x	23 x	10	1/3 =	153 cft
2 x	200 x	6	1/3 =	800 cft
Total: =				3068 Cft
				@ 2824.40 %Cft

Rs. 284880/-

13 Plain cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate); (f) Ratio 1: 2: 4.

2 x	20.5 x	19	1/8 =	97 cft
1 x	10 x	12	1/8 =	15 cft
2 x	4 x	4	1/8 =	4 cft
1 x	6 x	5	1/8 =	4 cft
1 x	10 x	12	1/8 =	15 cft
1 x	10 x	19	1/8 =	24 cft
1 x	9 x	19	1/8 =	21 cft
1 x	10 x	19	1/8 =	24 cft
1 x	13 x	19	1/8 =	31 cft
1 x	7 x	7.25	1/8 =	6 cft
2 x	3.125 x	5	1/8 =	4 cft
2 x	3.125 x	5	1/8 =	4 cft
1 x	7 x	5.625	1/8 =	5 cft
1 x	13 x	8	1/8 =	133 cft
3 x	5 x	5	1/8 =	9 cft
1 x	7 x	9	1/8 =	8 cft
1 x	13 x	19	1/8 =	31 cft
1 x	17.5 x	10	1/8 =	22 cft
1 x	50 x	22	1/8 =	138 cft
1 x	15.5 x	19	1/8 =	37 cft
1 x	10 x	12	1/8 =	15 cft
1 x	12 x	8	1/8 =	12 cft
1 x	15.5 x	12	1/8 =	23 cft
1 x	6 x	5	1/8 =	4 cft
1 x	6 x	8.5	1/8 =	6 cft
1 x	8 x	8.5	1/8 =	9 cft
1 x	77 x	8	1/8 =	77 cft
2 x	8 x	8	1/8 =	16 cft
2 x	23 x	10	1/8 =	58 cft
2 x	200 x	6	1/4 =	600 cft
Total: =				1451 Cft
				@ 38126.10 %Cft

Rs. 553073/-

13 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.

d) (Non-Skid Chequered Tiles) 300mmx300mm.

2 x	24	x	5 x	
Total: =				240 SFT
@				211.55 P-SFT

Rs. 50772/-

14 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 mortar bed, complete in all respect as approved and directed by the Engineer Incharge. (i) 3/4" thick.

2 x	23	x	10 x	
8 x	18	x	1 x	
Total: =				460 SFT
@				144 SFT
Total: =				604 SFT
@				1308.95 P-SFT

Rs. 790606/-

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

4 x	24	x		
Total: =				96 Rft
@				1775.10 P-SFT

Rs. 170410/-

17 Providing and fixing all types of partly fixed and partly openable glazed anolised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1 1/2" x 4") and leaf frame of 60x40mm (2 1/2" x 1 1/2") wide sections including the cost of 1/4" (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.

7 x	5	x	8.5 x	
2 x	3 1/2 x		7 x	
Total: =				298 SFT
@				49 SFT
Total: =				347 SFT
@				1437.60 P-SFT

Rs. 498128/-

18 Providing and fixing 1 1/2" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows, withunild steel chowkat (frame), etc. complete in all respects(excluding sliding bolt or lock) with-M.S. angle iron 1 1/2" x 1 1/2" x 1/4", welded (40 mm x 40 mm x 6mm) with M.S. flat 2" x 1/4" (50 mm x 6 mm).

12 x	3 1/2 x		7 x	
Total: =				294 SFT
@				1531.85 P-SFT

Rs. 450364/-

19 Providing and fixing M.S. flat 1 1/2" x 1/8" (13 mm x 3mm) grill including 3/4" x 1/8" (20 mm x 3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.

2 x	12	x		
4 x	5	x		
4 x	6	x		
4 x	4	x		
3 x	6	x		
1 x	7	x		
6 x	2	x		
Total: =				96 Sft
@				80 Sft
Total: =				96 Sft
@				136 Sft
Total: =				108 Sft
@				60 Sft
Total: =				18 Sft
@				594 Sft

Rs. 492.20 P-Sft

854-85

587781/-

Rs. 492.20

20

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

(i) i/c Providing and fixing Aluminium Fly screen comprising of Fiber / Aluminium wire gauze (Malasian) fixed in aluminium 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 Hardware as approved and directed by the engineer incharge complete in all respect.

win W1

c.w1

2 x	12	x	--	x	4 =	96 Sft
4 x	5	x	--	x	4 =	80 Sft
4 x	6	x	--	x	4 =	96 Sft
4 x	4	x	--	x	8.5 =	136 Sft
3 x	6	x	--	x	6 =	108 Sft
1 x	7	x	--	x	8.5 =	60 Sft
6 x	2	x	--	x	1.5 =	18 Sft
Total: =						594 Sft

@ 1841.45

P.Sft

Rs. 1092901/-

21 Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/bondover 3/4" thick (1:3)cement plaster i/c the cost of scaler for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

a) Full body Glazed tiles (i) 600 mm x 600 mm

2 x	20.5 x	19	=	779 cft
1 x	10 x	12	=	120 cft
2 x	4 x	4	=	32 cft
1 x	6 x	5	=	30 cft
1 x	10 x	12	=	120 cft
1 x	10 x	19	=	190 cft
1 x	9 x	19	=	171 cft
1 x	10 x	19	=	190 cft
1 x	13 x	19	=	247 cft
1 x	7 x	7.25	=	51 cft
1 x	7 x	5.625	=	39 cft
1 x	133 x	8	=	1064 cft
3 x	5 x	5	=	75 cft
1 x	7 x	9	=	63 cft
1 x	13 x	19	=	247 cft
1 x	17.5 x	10	=	175 cft
1 x	50 x	22	=	1100 cft
1 x	15.5 x	19	=	295 cft
1 x	10 x	12	=	120 cft
1 x	12 x	8	=	96 cft
1 x	15.5 x	12	=	186 cft
1 x	6 x	5	=	30 cft
1 x	6 x	8.5	=	51 cft
1 x	8 x	8.5	=	68 cft
1 x	77 x	8	=	616 cft
2 x	8 x	8	=	128 cft
2 x	23 x	10	=	460 cft
1 x	12 x	8.5 x	=	102 Sft
1 x	12 x	7.5 x	=	90 Sft
1 x	23 x	16 x	=	368 Sft
Total: =				7303 Sft

@ 340.50

P.Sft

Rs. 2486544/-

OT
office
ver.
Store

22 Providing and laying superb quality Porcelain glazed tiles of Master brand,skirting/dado of specified size,Color and Shade with adhesive/bondover 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 (i) 600 mm x 600 mm.

2x2	x(	20.5 +	19	x	4	=	632 Sft
1x2	x(	10 +	12	x	4	=	176 Sft
2X2	x(	4 +	4	x	4	=	128 Sft
1x2	x(	6 +	5	x	4	=	88 Sft
1x2	x(	10 +	12	x	4	=	176 Sft
1x2	x(	10 +	19	x	4	=	232 Sft
1x2	x(	9 +	19	x	4	=	224 Sft
1x2	x(	10 +	19	x	4	=	232 Sft
1x2	x(	13 +	19	x	4	=	256 Sft

2x2 x(	7 +	7.25 x	4	=	228 Sft
1x2 x(	7 +	5.625 x	4	=	101 Sft
1x2 x(	133 +	8 x	4	=	1128 Sft
3x2 x(	5 +	5 x	4	=	240 Sft
1x2 x(	7 +	9 x	4	=	128 Sft
1x2 x(	13 +	19 x	4	=	256 Sft
1x2 x(	17.5 +	10 x	4	=	220 Sft
1x2 x(	50 +	22 x	4	=	576 Sft
1x2 x(	15.5 +	19 x	4	=	276 Sft
1x2 x(	10 +	12 x	4	=	176 Sft
1x2 x(	12 +	8 x	4	=	160 Sft
1x2 x(	15.5 +	12 x	4	=	220 Sft
1x2 x(	6 +	5 x	4	=	176 Sft
2x2 x(	6 +	8.5 x	4	=	116 Sft
1x2 x(	8 +	8.5 x	4	=	132 Sft
1x2 x(	77 +	8 x	4	=	680 Sft
2x2 x(	8 +	8 x	4	=	256 Sft
2x2 x(	23 +	10 x	4	=	528 Sft
1x2 x(	12 +	8.5 x	4	=	164 Sft
1x2 x(	12 +	7.5 x	4	=	156 Sft
1x2 x(	23 +	16 x	4	=	312 Sft
1x2 x(	12 +	7.5 x	4	=	156 Sft
1x2 x(	23 +	16 x	4	=	312 Sft
Total: =					8841 Sft
					@ 340.50 P.Sft

W open - 3470294 + 594 = 1235.4 = 766 Sft
 108' = 8135 Sft
 Rs. 3040364/-
 2769968/-

23 Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture with 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.

i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

bath

2 x	5 x	5 x	=	50 Sft
1 x	7 x	7.625 x	=	53 Sft
2 x	5 x	5 x	=	50 Sft
1 x	6 x	11 x	=	66 Sft
3 x	5 x	5 x	=	75 Sft
1 x	5 x	5 x	=	25 Sft
Total: =				319 Sft
				@ 239.90

Rs. 76618/-

24 Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approve 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 in charge.

i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"

2x2 x(	5 +	5 x	7	=	280 Sft
1x2 x(	7 +	7.625 x	7	=	205 Sft
2x2 x(	5 +	5 x	7	=	280 Sft
1x2 x(	6 +	11 x	7	=	238 Sft
3x2 x(	5 +	5 x	7	=	420 Sft
1x2 x(	5 +	5 x	7	=	140 Sft
Total: =					1563 Sft
					@ 292.65 P.Sft

Wd doors - 10x2.5x7 = 175
 175 = 1288
 Rs. 486198/-
 Rs. 457339/-

25 Preparing surface and painting with emulsion paint:-
 02 coat on new surface.

2 x	20.5 x	19	=	779 Sft
1 x	10 x	12	=	120 Sft
2 x	4 x	4	=	32 Sft
1 x	6 x	5	=	30 Sft
1 x	10 x	12	=	120 Sft
1 x	10 x	19	=	190 Sft
1 x	9 x	19	=	171 Sft
1 x	10 x	19	=	190 Sft
1 x	13 x	19	=	247 Sft
1 x	7 x	7.25	=	51 Sft
2 x	3.125 x	5	=	31 Sft
2 x	3.125 x	5	=	31 Sft
1 x	7 x	5.625	=	39 Sft
1 x	133 x	8	=	1064 Sft
3 x	5 x	5	=	75 Sft
1 x	7 x	9	=	63 Sft
1 x	13 x	19	=	247 Sft
1 x	17.5 x	10	=	175 Sft
1 x	50 x	22	=	1100 Sft
1 x	15.5 x	19	=	295 Sft

1 x	10 x	12	=	120 Sft
1 x	12 x	8	=	96 Sft
1 x	15.5 x	12	=	186 Sft
1 x	6 x	5	=	30 Sft
1 x	6 x	8.5	=	51 Sft
1 x	8 x	8.5	=	68 Sft
1 x	77 x	8	=	616 Sft
2 x	8 x	8	=	128 Sft
2 x	23 x	10	=	460 Sft
2x2 x(	20.5 +	19 x	8	1264 Sft
2x1 x(	10 +	12 x	8	352 Sft
2x2 x(	4 +	4 x	8	256 Sft
2x1 x(	6 +	5 x	8	176 Sft
2x1 x(	10 +	12 x	8	352 Sft
2x1 x(	10 +	19 x	8	464 Sft
2x1 x(	9 +	19 x	8	448 Sft
2x1 x(	10 +	19 x	8	928 Sft
2x1 x(	13 +	19 x	8	512 Sft
2x1 x(	7 +	7.25 x	8	228 Sft
2x2 x(	3.125 +	5 x	8	260 Sft
2x2 x(	3.125 +	5 x	8	260 Sft
2x1 x(	7 +	5.625 x	8	202 Sft
2x1 x(	133 +	8 x	8	2256 Sft
2x3 x(	5 +	5 x	8	480 Sft
2x1 x(	7 +	9 x	8	256 Sft
2x1 x(	13 +	19 x	8	512 Sft
2x1 x(	17.5 +	10 x	8	440 Sft
2x1 x(	50 +	22 x	8	1152 Sft
2x1 x(	15.5 +	19 x	8	552 Sft
2x1 x(	10 +	12 x	8	352 Sft
2x1 x(	12 +	8 x	8	320 Sft
2x1 x(	15.5 +	12 x	8	440 Sft
2x1 x(	6 +	5 x	8	176 Sft
2x1 x(	6 +	8.5 x	8	232 Sft
2x1 x(	8 +	8.5 x	8	264 Sft
2x1 x(	77 +	8 x	8	1360 Sft
2x2 x(	8 +	8 x	8	512 Sft
2x2 x(	23 +	10 x	8	1056 Sft
Total: =				22867 Sft
@				2034.65

34.7 + 29.4 + 58.4 = 123.5 ft
 1151.55 + 883.1 = 2034.65

25

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: a) new surface: 3 coats

External surface

2 x(	135 +	773/4
2 x(	50 +	30
	3319.85 +	1925.45

D/d opel.

15.125 =	2420 Sft	
Total: =	8867 Sft	596 = 8273 Sft
@	5245.30	% Sft
		Rs. 46516

135 1/4"

Total: Rs. 13366104/-

S. 133661047-

Rs. ~~465102/-~~ 4.35

s. 133661047-

Add 3rd Contingency:-

old material

Rs. ~~400983/-~~

396596

Total: Rs. 437670874-

S. 137670874

13616385

212100/-
s. 123531.00%

134036298

~~SECRET~~~~SECRET~~~~SECRET~~~~SECRET~~

Sub-Engineer

Sub Divisional Officer
Buildings Sub Division

Executive Engineer
Buildings Division
M. Garh

Detail of Additional Items Emergency Ward

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
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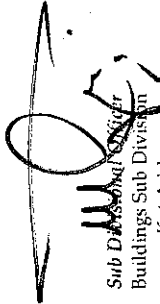
- 1 Providing and fixing openable door comprising of 3mm thick upvc hollow profile chowkat frame of 60 mm x 64mm leaf 60mmx106mm both duly reinforced with g.i box frame inside wide with 20 mm wide panel grooves on both sides as per approved and directed by Engineer in charge.

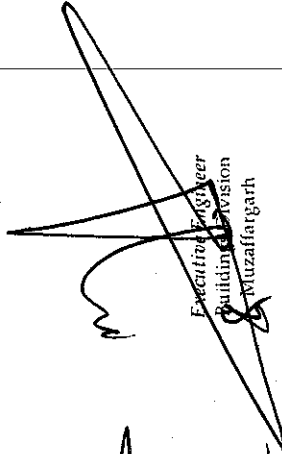
12 x 21/2 x 7 x

Total: = $\frac{210 \text{ Sft}}{210 \text{ Sft}}$

@ 1042 = 218820/-


Sub Engineer


Sub Divisional Engineer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Electric Installation Emergency Ward

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
--------	-------------	----	--------	---------	-------	----------	--------

1 Supply and Erection of PVC pipe for wiring on recessed i/c inspection boxes pull boxes hook bends reducer and preparing surface etc complete. 3/4" dia
 20 x 75 x -- = 1500 Rft
 Total: = 1500 Rft
 @ 81.70 P.Rft
 Rs. 122550/-

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

(i) 3/0.029"
 20 x 150 x -- = 3000 Rft
 30 x 200 x -- = 6000 Rft
 Total: = 9000 Rft
 @ 25.70 P.Rft
 Rs. 231300/-

(ii) 7/0.029"
 40 x 80 x -- = 3200 Rft
 Total: = 3200 Rft
 @ 40.75 P.Rft
 Rs. 130400/-

iii 7/0.036"
 23 x 100 x -- = 2300 Rft
 Total: = 2300 Rft
 @ 53.80 P.Rft
 Rs. 123740/-

3 Supply & Erection of switch piano type 5 Amp.
 1 x 350 x -- = 350 Nos.
 Total: = 350 Nos.
 @ 72.00 P.Each
 Rs. 25200/-

4 Supply and erection of 3 pin. 5 Amp wall socket.
 1 x 30 x -- = 30 Nos.
 Total: = 30 Nos.
 @ 134.10 P.Each
 Rs. 4023/-

5 Supply and erection of LED Bulb 18 watt best quality as approved by the engineer incharge
 1 x 200 x -- = 200 Nos.
 Total: = 200 Nos.
 @ 750.00 P.Each
 Rs. 150000/-

6 Supply and Erection of button holder bakelite large size.
 1 x 200 x -- = 200 Nos.
 Total: = 200 Nos.
 @ 53.75 P.Each
 Rs. 10750/-

7 Supply and erection of 3 pin switch and plug combined, recessed type. ii) 10/15 Amp
 1 x 20 x -- = 20 Nos.
 Total: = 20 Nos.
 @ 149.80 P.Each
 Rs. 2996/-

8 Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc
 1 x 20 x -- = 20 Nos.
 Total: = 20 Nos.
 @ 478.30 P.Each
 Rs. 9566/-

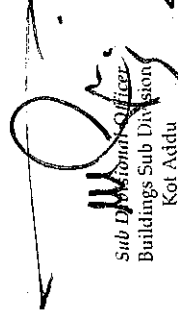
9 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls Complete in all respect as approved and directed by the Engineer incharge (Breakers will be Paid Separately).

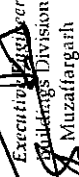
1 x 2 x -- = 2 Nos.
 Total: = 2 Nos.
 @ 41912.65 P.Each
 Rs. 83825/-

Total: Rs. 894350/- 905943

Say: Rs. 894400/- 906000/-


 Sub Engineer


 Sub Division Officer
 Buildings Sub Division
 Kot Addu


 Executive Engineer
 Buildings Division
 Muzaffargarh

Sanitary Installation Emergency Ward

Sl. No	Description	No	Length	Breadth	Depth	Contents	Amount
--------	-------------	----	--------	---------	-------	----------	--------

- 1 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BB) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned), i.e. PN 20
- | | | | | | | | |
|------------------|----------|---|----|---|----|-------------------|--------------|
| (iii) (1") 32 mm | 12 x 100 | x | -- | x | -- | = 1200 Rft | |
| | 10 x 40 | x | -- | x | -- | = 400 Rft | |
| | | | | | | Total: = 1600 Rft | |
| | | | | | | @ 106.90 P.Rft | Rs. 171040/- |
- 2 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.
- | | | | | | | |
|--------|---|----|---|----|------------------|-------------|
| 1 x 10 | x | -- | x | -- | = 10 No. | |
| | | | | | Total: = 10 No. | |
| | | | | | @ 2228.75 P.Each | Rs. 22288/- |
- 3 P/F Plastic made low down flushing cistern 3-gallon capacity i/c bracket set, waste pipe and waste coupling Coloured.
- | | | | | | | |
|--------|---|----|---|----|------------------|-------------|
| 1 x 10 | x | -- | x | -- | = 10 No. | |
| | | | | | Total: = 10 No. | |
| | | | | | @ 4029.10 P.Each | Rs. 40291/- |
- 4 Providing and fitting glazed earthen ware wash hand basin / vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.
i) white, with pedestal.
- | | | | | | | |
|--------|---|----|---|----|------------------|-------------|
| 1 x 10 | x | -- | x | -- | = 10 No. | |
| | | | | | Total: = 10 No. | |
| | | | | | @ 5169.95 P.Each | Rs. 51700/- |
- 5 Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.
- | | | | | | | |
|--------|---|----|---|----|-------------------|--------------|
| 1 x 10 | x | -- | x | -- | = 10 No. | |
| | | | | | Total: = 10 No. | |
| | | | | | @ 13915.80 P.Each | Rs. 139158/- |
- 6 Providing and fixing, "P" trap (glazed) 4" dia.
- | | | | | | | |
|--------|---|----|---|----|-----------------|------------|
| 1 x 20 | x | -- | x | -- | = 20 No. | |
| | | | | | Total: = 20 No. | |
| | | | | | @ 283.10 P.Each | Rs. 5662/- |
- 7 Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-
- | | | | | | | |
|--------|---|----|---|----|-----------------|------------|
| 1 x 15 | x | -- | x | -- | = 15 No. | |
| | | | | | Total: = 15 No. | |
| | | | | | @ 627.75 P.Each | Rs. 9416/- |
- 8 Providing and fixing brass stop cock/bib cock:-a) 15 mm (1/2") dia.
- | | | | | | | |
|--------|---|----|---|----|-----------------|-------------|
| 1 x 30 | x | -- | x | -- | = 30 No. | |
| | | | | | Total: = 30 No. | |
| | | | | | @ 553.75 P.Each | Rs. 16613/- |
- 9 Providing and fixing, gully trap of cast iron, including concrete chamber all round, and C.I. grating:-
- | | | | | | | |
|--------|---|----|---|----|------------------|-------------|
| 1 x 30 | x | -- | x | -- | = 30 No. | |
| | | | | | Total: = 30 No. | |
| | | | | | @ 1096.60 P.Each | Rs. 32898/- |
- 10 Providing, laying, cutting, jointing, testing and disinfecting Providing and installing specials pipe line in trenches with PVC/ upVC pipes of B.S.S. with 'D' and valves is not included in the Class working pressure complete in all respects:-4" i/d (100 num)
- | | | | | | | |
|---------|---|----|---|----|------------------|--------------|
| 4 x 150 | x | -- | x | -- | = 600 No. | |
| | | | | | Total: = 600 No. | |
| | | | | | @ 757.95 P.Each | Rs. 454770/- |

Total: Rs. 943836/-

Say: Rs. 943836/-

Sub Engineer

Sub Engineer
Buildings Sub Division
Kot Addu

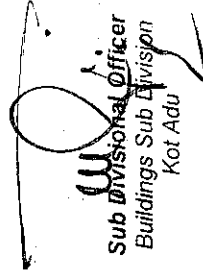
Executive Engineer
Buildings Division
Muzaffargarh

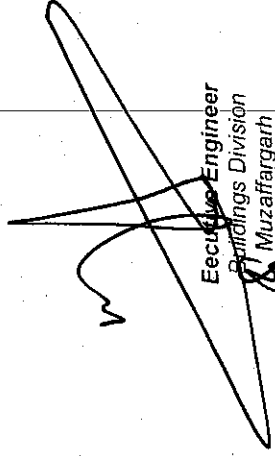
GENERAL ABSTRACT OF COST

SEWERAGE & WATER SUPPLY

Sr #	Description	Amount
1	2	3
1	Sewerage Line and water supply etc	9856379 10522779
2	Providing and fixing (KSB) Sludge pump 5"x4" type 100-250 duly coupled with 20 HP / 1450 RPM 380/400 volts 3-phase 50 C/S, A/CIP-44 (SEIMENS) Electric motor through as flexible coupling mounted on common steel base frame i/c sluices valve, foot valve & motor control Unit complete in all respect as approved by the Engineer Incharge	1648500
	GRAND TOTAL	12191279 44504879


Sub Engineer



Sub Divisional Officer
Buildings Sub Division
Kot Adu

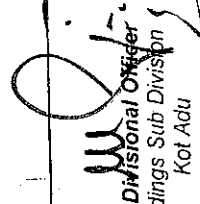

Executive Engineer
Buildings Division
Muzaffargarh

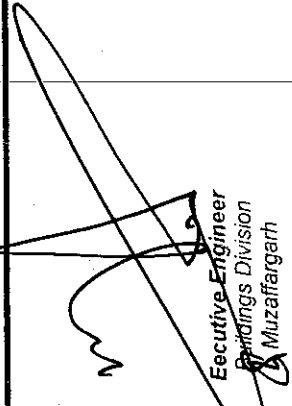
GENERAL ABSTRACT OF COST

SEWERAGE

Sr #	Description	Amount
1		3
1	Sewerage Line	6920800
2	Septic Tank	313000
3	Collecting Tank	17099000 2356890
4	Water Supply	625600
	Total	9569300- 10216290
	Add 3% Contingency	287079- 306489
	GRAND TOTAL	9856379- 10522779


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Adu


Executive Engineer
Buildings Division
Muzaffargarh

RATE ANALYSIS FOR THE CONSTRUCTION OF MANHOLE

1 Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- i) 0 ft. to 7.0 ft. @ 2.10 m depth

Manhole	1 x	5.5 x	4 x	3.5	=	77 Cft.
Total					@	11740.40 %Cft Rs.904/-

2 Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 6: 12

Circular manhole						
	1 x	5.5 x	4 x	0.5	=	11 Cft.
Total					@	21060.85 %Cft Rs.2317/-

3 Pacca brick work other than building upto 10ft. (3 m) height. i) cement, sand mortar:- Ratio 1:4

	1 x	2 x	5.5 x	0.75 x	3.5	=	29 Cft.
	1 x	2 x	2.5 x	0.75 x	3.5	=	13 Cft.
Total					@	42 Cft	Rs.13161/-

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

Taking 6.75 of item no 7	1 x	8.08 x	6.75 x	0.454	=	25 Kg
Total					@	31420.10 %Kg Rs.7780/-

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

	2 x	2 x	5.5	x	3.5	=	77 Sft
	2 x	2 x	2.5	x	3.5	=	35 Sft
Total					@	112 Sft	Rs.3631/-

6 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. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1:2:4)

MANHOLE COVER						
	1 x	5.5 x	4 x	0.4166	=	9.17 Cft.
Deduct	-1 x	3.14 x	1.83 x	1.83 /	=	-1.09 Cft
				4.000		8.08 Cft
				Total	@	457.75 /Cft
						Rs.3699/-

7 Extra for making& finishing benching of floor work in manehole chambers with 1/8" thick cement finish.

1 x	2.5 x	4	=	10 Sft
Total				= 10 Sft
				@ 2934.10 %Sft
				Rs.293/-

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

M hole	1 x	2.5 x	4 x	0.25	=	2.50 Cft
					=	2.50 Cft
					@	38126.10 %Cft
						Rs.953/-

9 P/F RCC manhole cover 22" dia Providing and fixing 3" (75 mm) thick R.C.C. manhole

1 x	1	1.00 Nos.
Total		1 Nos.
@	11561.95 Each	Rs.11562/-
Total:		Rs.44300/-
Say		Rs: Rs.44300/-

Sub Engineer
Sub Engineer

Sub Divisional Officer
Sub Divisional Officer
Buildings Sub Division
Kot Adu

Executive Engineer
Executive Engineer
Buildings Division
Muzaffargarh

DETAIL ESTIMATE FOR SEWERAGE (EXTERNAL DEVELOPMENT)

- 1 Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth

RCC sewer pipe				
9" dia	1 x	1000 x 3 x 3	=	9000 Cft.
12" dia	1 x	1500 x 3 x 3	=	13500 Cft.
Total				22500 Cft
				@ 11740.40 %oCft Rs.264159/-

- 2 Providing & laying of RCC sewer pipe moulded with cement concrete (1:1-1/2:3) with spygot, socket, and collar joints conforming to BS-5911 Part-I 1981 Class "L" i/c lowering jointing Testing complete

9" dia	1 x	1000	=	1000 Rft
Total				1000 Rft
				@ 528.30 P.Rft Rs.528300/-

- Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.
i) 310 mm (12") i/d

	1 x	1500	=	1500 Rft
Total				1500 Rft
				@ 695.60 P.Rft Rs.1043400/-

- 4 P/ laying of PVC sewer pipe of BSS class "D" working pressure i/c lowering, jointing, Testing complete.

PVC 4" dia	1 x	800	=	800 Rft
Total				800 Rft
				@ 757.95 P.Rft Rs.606360/-

- 5 Construction of man hole small.

	1 x	100	=	100 Nos.
Total				100 Nos.
				@ 44300.00 P.Rft Rs.4430000/-

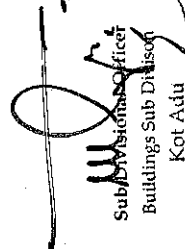
- 6 Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaoarah or shovel

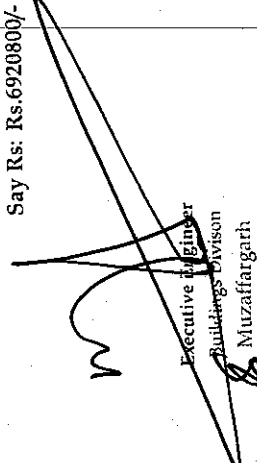
Take 85% of item No.1				
	1 x	22500 x 85 / 100	=	19125 Cft.
Total				19125 Cft
				@ 2539.70 %oCft Rs.48572/-

Total: Rs.6920791/-

Say Rs: Rs.6920800/-


Sub Engineer


Sub Division Officer
Buildings Sub Division
Kot Adu


Executive Engineer
Buildings Division
Muzaffargarh

DETAIL ESTIMATE FOR WATER SUPPLY

1 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.

1" dia	1 x 1500 x 2 x 3	=	9000 Cft.
2" dia	1 x 1000 x 2 x 3	=	6000 Cft.
Total			15000 Cft
		@	7622.75 %oCft
			Rs.114341/-

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

1" dia	1 x 1500 x 3.14 x 0.083	=	391 Sft
2" dia	1 x 1000 x 3.14 x 0.16	=	502 Sft
Total			893 Sft
		@	1222.15 %oSft
			Rs.10914/-

3 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned).i- PN 20

1"	1 x 1500	=	1500 Rft
Total			1500 Rft
		@	93.65 P.Rft
			Rs.140475/-

2" dia	1 x 1000	=	1000 Rft.
Total			1000 Rft.
		@	327.45 P.Rft
			Rs.327450/-

4 Rehandling of earthwork: a) Lead upto a single throw of Kassil, phaorah or shovel

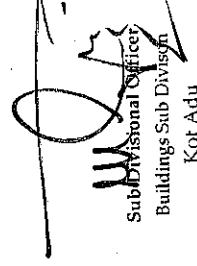
Take 85% of item No.1

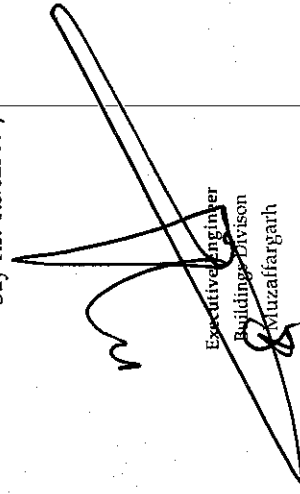
	1 x 15000 x 85 / 100	=	12750 Cft.
Total			12750 Cft
		@	2539.70 %oCft
			Rs.32381/-

Total: Rs.625561/-

Say Rs: Rs.625600/-


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Adu


Executive Engineer
Buildings Division
Muzaffargarh

DETAIL ESTIMATE FOR SEPTIC TANK

S.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:- i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1 x 17 x 10 x 5 = @ 11740.40 %Cft	850 Cft 850 Cft Rs.9979/-
2	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (e) Ratio 1:6:12	1 x 17 x 10 x 0.5 = @ 21060.85 %Cft	85 Cft 85 Cft Rs.17902/-
3	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:- (3) (c) Type C (nominal mix 1: 2: 4)	1 x 15.5 x 8 x 0.5 = @ 457.75 /Cft	62 Cft 62 Cft Rs.28381/-
4	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) deformed bars	1 x 62 x 6.75 x 0.454 = @ 31420.10 %Kg	190 Kg 190 Kg Rs.59698/-
5	Pacca brick work other than building upto 10ft. (3 m) height. i) cement, sand mortar:- Ratio 1:4	2 x 15.125 x 1.5 x 0.25 = 2 x 14.75 x 1.125 x 10.5 = 2 x 5 x 1.5 x 0.25 = 2 x 5.375 x 1.125 x 10.5 = Total: @ 31336.30 %Cft	11 Cft 348 Cft 4 Cft 127 Cft 490 Cft Rs.153548/-
6	Cement plaster 1:4 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	2 x 2 x 14.75 x 10.5 = 2 x 2 x 5.25 x 10.5 = Total: @ 3241.60 %Sft	620 Sft 221 Sft 841 Sft Rs.27262/-
7	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	1 x 17 x 10 x 0.250 = Total = @ 38126.10 %Cft	42.50 Cft. 42.50 Cft Rs.16204/-

Total. Rs.312974/-

Say Rs.313000/-

Mudheem
Sub Engineer

Mudheem
Sub Divisional Officer
Buildings Sub Division
Kot Addu

Mudheem
Executive Engineer
Buildings Division
Muzaffargarh

Detail of Surface Treatment to Approach Roads

Sl. No	Description	No	Length	Breadth	Depth	Contents	Amount
--------	-------------	----	--------	---------	-------	----------	--------

- 1
- Providing surface treatment to roads, including supply of bitumen and bajri/crushed stone aggregate of approved quality, including cleaning of road surface, heating and spraying bitumen, spreading bajri and rolling with road roller (including its operation cost, fuel and hire charges, etc.) etc. complete including carriage of all materials to site of work except bajri/crushed stone aggregate (TST 79 lbs 100sft)

20 x 20 x 12 x -- = 4800 sft

Total: = 4800 sft

@ 8216.40 %sft

Rs. 394387/-

Total: Rs. 394387/-

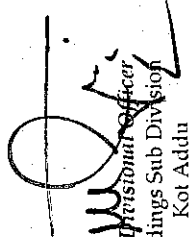
Add 3% Contingency:-

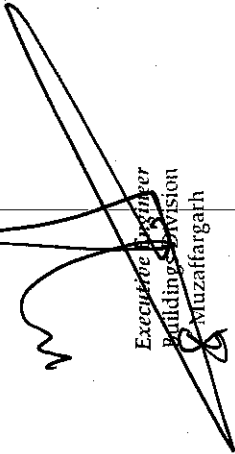
Rs. 11832/-

Total: Rs. 406219/-

Say: Rs. 406200/-


Sub Engineer


Sub Divisional Engineer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

Rate Analysis for the item "Providing and fixing (KSB) Sludge pump 5"x4" type 100-250 duly coupled with 20 HP / 1450 RPM 380/400 volts 3-phase 50 C/S, A/CIP-44 (SEIMENS) Electric motor through as flexible coupling mounted on common steel base frame i/c sluices valve, foot valve & motor control Unit complete in all respect as approved by the Engineer Incharge".

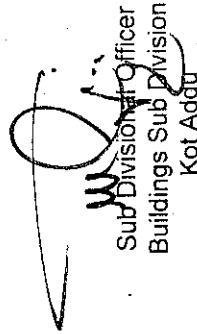
1. Providing and fixing (KSB) Sludge pump 5"x4" type 100-250 duly coupled with 20 HP / 1450 RPM 380/400 volts 3-phase 50 C/S, A/CIP-44 (SEIMENS) Electric motor through as flexible coupling mounted on common steel base frame i/c sluices valve, foot valve & motor control Unit complete in all respect as approved by the Engineer Incharge.

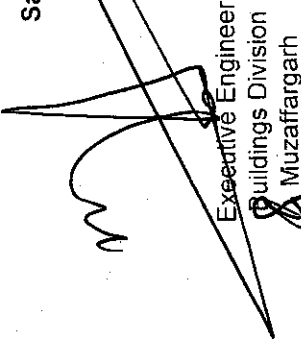
Non Schedule	@	1570000	P.Job	1570000	1 Job
Total				1570000	
Add 5 % Contractor's Profit: =				78500	

Total: 1648500

Say: 1648500


Sub Engineer


Sub Division Officer
Buildings Sub Division
Kot Addu


Executive Engineer
Buildings Division
Muzaffargarh

ANALYSIS OF RATE FOR THE ITEM

Providing and fixing high quality LED SMD Panel Light 2 ftx2 ft of specified wattage and Luminous flux with Polystyrene bowl/prismatic cover made of Philips as approved and directed by the Engineer Incharge. (ii) 48 watt/4000 k

Detail of Cost=1-No.

Unit = Each

2nd Bi-annual 2022

A	Material					
1	LED SMD Panel Light 2 ftx2 ft	1	No	Each	12285	12285
						12285

B	Labour					
1	Labour for fixing / installation.	5	No	Each	967	48 1/3
					Total "B"	48
					Total Cost = "A"+"B" =	12333
	Add 20% Contractor's Profit & Overhead charges on Rs.	12333	/-			2466.67
					Grand Total: =	14800

Unit Rate P Sft = 14800.02 / 1 14800 Each

SAY 14800 Each

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

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

Wadeem
SUB ENGINEER

M. A. J.
SUB DIVISIONAL OFFICER
Buildings Sub Division
Kot Adu

B
EXECUTIVE ENGINEER
Buildings Division
Muzaffargarh

Chaudhary
Superintending Engineer
Buildings Circle
Dera Ghazi Khan

ANALYSIS FOR GATE & GATE PILLARS

(2nd Bi-Annual 2022)

S. No	Description of Items	No	Length	Breadth	Height	Contents	Amount
-------	----------------------	----	--------	---------	--------	----------	--------

- Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) in ordinary soil. B) by manual

Pillars	3 x	5 x	5 x	4	10,677.75	%Cft	3203
---------	-----	-----	-----	---	-----------	------	------
- Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1: 6:12

Pillars	3 x	5 x	5 x	0.75	21060.85	%Cft	11847
---------	-----	-----	-----	------	----------	------	-------
- 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. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)

Pillars base slab.	3 x	4 x	4 x	0.75		36 Cft	
Pillars.	3 x	1.5 x	1.5 x	10		67.5 Cft	
Total:					457.75	P-Cft	47606
- Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) deformed bars G-40

Take Qty of item No 3	104 x	6.75 x	0.454		31420.10	%Kgs	319 Kgs
							100230
- Pacca brick work other than building upto 10ft. (3 m) height. i) cement, sand mortar:- Ratio 1:4

Up to 10 ft.height	6 x	2.25 x	0.375 x	10		51 Cft	
Pillars	6 x	1.5 x	0.375 x	10		34 Cft	
	6 x	1.75 x	1.75 x	0.5		9 Cft	
	6 x	1.75 x	1.75 x	0.5		9 Cft	
Total:					31336.3	% Cft	32276
- Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- with 2 coats of bitumen 1½" thick (40 mm)

	6 x	2.25 x	0.375			5 Sft	
	6 x	1.5 x	0.375			3 Sft	
Total					8625.8	% Sft	690
- Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- ratio 1:2 ½ extra cost of labor and material with red oxide pigment in cement pointing to match the colour of bricks.

Pillars	12 x	2.25	x	8	216 Sft		
Total:					4168.65	% Cft	9004
- Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8" (50x50x10 mm) and ¾" (20 mm) square bars 4" (100 mm) centre to centre, with locking arrangement.

	3516.15 +	652.5	@				
--	-----------	-------	---	--	--	--	--
- Door.

	1 x	10	-	x	6	60 Sft	
	1 x	4	-	x	6	24 Sft	
Total					2373.3	P.Sft	199357
- Painting new surface:- d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- Three Coats


Take Double Qty of item No 8	2 x	84				168 Sft	
	824.15 +	490.55 +	490.55 @ 1,805.25			3033.00	
Total							407246

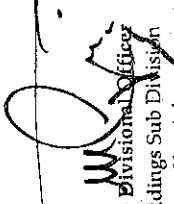
Add 3% contingency

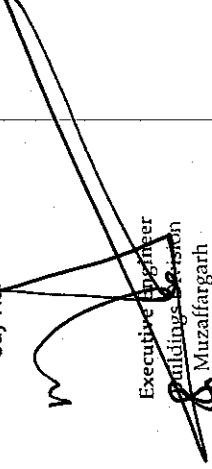
Total 12217

Total 419464

Say Rs: 419500


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Kot Adu


Executive Engineer
Buildings Division
Muzaffargarh

ANALYSIS FOR ANTI MICROBIAL FLOORING

S.No	Description	No	Breadth	Depth	Inte	Amount
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Unit of Rate.....P.SFT

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

A	Material					
1	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	100	Sft	P.Sft	83650	83650
	Total A					83650
B	Labour					
2	Labour For Fixing & Installation	1	Job	P.Job	10850	10850
	Total B					10850
	Total Cost A+B					94500
	Add 20% contractor profit on Rs	94500				18900
	Total	113400	/	100	1134	113400
	Rate P.Sft					

Say1134

CERTIFICATE

i) Certified that rates for items at serial No. 1 & 2 are not available on the Website of Finance Department for the 2nd Bi-Annual 2022 and as such the rate of Rs: 1134/- has been applied after ascertaining it from the market.

Sub-Engineer

Sub Divisional Officer

Buildings Sub Division

Kot Adu

Executive Engineer

Buildings Division

Muzzaafargah

Suprintending Engineer

Buildings Circle

Dera Ghazi Khan

ANALYSIS FOR UPVC DOOR

S.No	Description	No	Breadth	Depth	nte	Amount
------	-------------	----	---------	-------	-----	--------

Unit of Rate.....P.SFT

- 1 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

A	Material					
1	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	100	Sft	P.Sft	75850	75850
Total A						75850

B	Labour					
2	Labour For Fixing & Installation	1	Job	P.Job	10850	10850
Total B						10850
Total Cost A+B						86700

Add 20% contractor profit on Rs 86700

Rate P.Sft 104040 / 100 1040.4

Total 104040

Say: 1040

CERTIFICATE

i) Certified that rates for items at serial No. 1 & 2 are not available on the Website of Finance Department for the 2nd Bi-Annual 2022 and as such the rate of Rs. 1040/- has been applied after ascertaining it from the market.

Audhem
Sub Engineer

M. Q. Adu
Sub Divisional Officer
Buildings Sub Division
Kot Adu

M. Q. Adu
Executive Engineer
Buildings Division
Muzzaafargarh

Ghazal Khan
Superintending Engineer
Buildings Circle
Dera Ghazi Khan

ANALYSIS FOR ANTI MICROBIAL PVC WALL

CLADDING

S.No	Description	No	Breadth	Depth	Rate	Amount
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Unit of Rate.....P.SFT

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

A	Material					
1	premium graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall i/c the cost of hardwares	100	Sft	P.Sft 140840		140840
	Total A					140840

B	Labour					
2	Labour For Fixing & Installation	1	Job	P.Job 16650		16650
	Total B					16650
	Total Cost A+B					157490

Add 20% contractor profit on Rs 157490

31498

Total 188988

Rate P.Sft 188988 / 100 1889.9

Say: 1890

CERTIFICATE

i) Certified that rates for items at serial No. 1 & 2 are not available on the Website of Finance Department for the 2nd Bi-Annual 2022 and as such the rate of Rs: 1890/- has been applied after ascertaining it from the market.

Sub Engineer
Sub Engineer

Sub Division Officer
Sub Division Officer
Buildings Sub Division
Kot Adu

Executive Engineer
Executive Engineer
Buildings Division
Muzaffargarh

Charhed
Superintending Engineer
Buildings Circle
Dera Ghazi Khan

Executive Engineer,
Building Division
Dear Ghazi Khan/Toussa

Your Reference	Telephonic
Date	20.7.23
Item Number	01

Quotation

NON CLOGGING CENTRIFUGAL PUMP

Quotation #	MEA	12738(2)
Quantity	01	20.7.22

We thank you for your above enquiry/order and are pleased to submit our offer/order confirmation subject to our general conditions for Sales and Supply of equipment contained in form BS FT-04 (REV-2007) attached.

TECHNICAL PART

Pump Data

Pump Type	KWPK	100-250
Liquid handled	Waste water	
Flow rate	1.5 Cusec	
Pump total head	45 ft	
Speed	1450 rpm	
Specific Gravity	1.1	
Viscosity / PH Value		
Pump Input	BHP	
Electric Motor Rating	20	HP
NP SH Required		
Impeller diameter / Type		
Suction Flange I.D.	5	inch
Delivery Flange I.D.	4	inch
Flange Standard	BS Table 10 D	
Shaft Seal	Gland Pack	
Coupling Type		

Driver	NA	0
Make/Type	Siemens	Rated Speed 1450
Protection	IP55	Rated Output 20
Insulation Cl.F		Voltage 400
Ambient Temp 40 C		Phase 3
Enclosure		Cycle/Sec 50 HZ

Material	GG-25	Part	Material
Pump Casing	GG-25	Shaft	C45 N
Impeller	GG-25	Necked Bush	GG-25
Discharge Cd	GG-25	Seat Csgs	
S.P. Sleeve	1.4138	Spider	Cast Iron
S.B. Gland	Cast Iron	Throat bush	Cast Iron

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

COMMERCIAL PART

Price Basis

Ex.	Your site.		
Delivery Time	05-08 Weeks after receipt of firm order		
Validity	30 days		
Terms of Payment	50% advance & balance before delivery		
Shipping	Space	Gross Wt	Nett Wt.

Scope of Supply

01 NO. Horizontal Sludge Pump

Supply of Pump Type KWP 100-250 with FIP coupled with Siemens 20 HP/4P Electric Motor on base frame including MCU-ASD-20 KSB Make, Packing & Transportation

Price Per Unit including G.S.T @17%

Rs. 1570,000/-

Ahmad Saeed
for KSB Pumps Company Limited

Sales Department

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

WORKS: Hazara Road, Hassanabad, Pakistan • Tel: +92-57-2520236 • Fax: +92-57-2520237 • E-mail: admin.hasanabad@ksb.com.pk

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:LO22010097
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:LO22010097
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 is Rs.15.000 million. The same may be borne by the District Health Authority of the concern District as well as Primary and secondary healthcare Department, Lahore.

9. DEMAND AND SUPPLY ANALYSIS

DEMAND AND SUPPLY ANALYSIS

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

10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION

10.2 FINANCIAL PLAN DEBT INFORMATION

undefined

10.3 FINANCIAL PLAN GRANT INFORMATION

attached

FINANCIAL PLAN AND MODE OF FINANCING

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

Revenue Side:

(Rs.in Million)

	FY 2021-22	FY 2022-23
Funds Released	4.680	8.801
Utilization	4.106	2.024

Capital Side:

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

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

10.4 WEIGHT COST OF CAPITAL INFORMATION

undefined

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

SOCIAL BENEFITS WITH INDICATORS

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

SOCIAL IMPACT:

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

EMPLOYMENT GENERATION (DIRECTOR AND INDIRECT)

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

11.2 ENVIRONMENTAL IMPACT ANALYSIS

ENVIRONMENTAL IMPACT

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

11.3 PACT ANALYSIS

undefined

11.4 ECONOMIC ANALYSIS

IMPACT OF DELAYS ON PROJECT COST AND VIABILITY

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

deprive the patients of the state of the art facility but also distort the public image of the Government.

11.5 FINANCIAL ANALYSIS

FINANCIAL BENEFITS & ANALYSIS

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

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

The Human Development Index of Pakistan (HDI) will improve

Infant Mortality Rate will decrease

Mother Mortality rate will be decreased

The international commitments of Pakistan will be accomplished

Health standard of public will

Better Health Facilities to mother and

Prompt and scientific facility for operation

Rehabilitation of disables and injured

Blindness in this area will be decreased and controlled

Better social and mental health to addict

Provision of better health facilities at doorsteps

Awareness and control for communicable

Survival of heart failure

Social indicators of Pakistan will improve

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

11.1.1 FINANCIAL IMPACT:

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

11.2 REVENUE GENERATION

Revenue will be generated from:

Laboratory fees

Diagnostic facility fees

X-Ray fee

Dental fee

ECG fee

Private room charges

Parking fee

Medico Legal Fee

Medical Certificate of New Government Employees

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

Starting date: 01-07-2021

Expected Completion date: 30-06-2025

12.2 RESULT BASED MONITORING (RBM) INDICATORS

undefined

12.3 IMPLEMENTATION PLAN

undefined

12.4 M&E PLAN

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

12.5 RISK MITIGATION PLAN

attached

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

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

12.6 PROCUREMENT PLAN

undefined

13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

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

14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

NA

15. CERTIFICATE

Focal Person Name:Mr. KHIZAR HAYAT

Designation:Project Director, PMU P&SHD

Email:

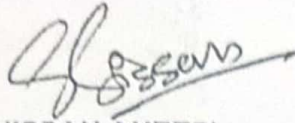
Tel. No.:

Fax No:

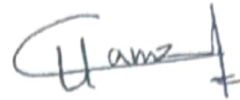
Address:31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

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

Prepared By:

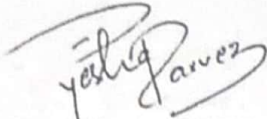


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