



PC-1

Revamping of THQ Hospital, Jatoi District Muzaffargarh

ORIGINAL APPROVED COST	PKR Million. 396.584/-
ORIGINAL APPROVED GESTATION	72 Months Till June 2025
APPROVAL FORUM	DDSC (DDSC)

1. NAME OF THE PROJECT

Revamping of THQ Hospital, Jatoi District Muzaffargarh

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. MUZAFFARGARH

2.2. TEHSIL(S)

I. JATOI

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, District Health Councils and C&W Department.
	3.3 Operation & Maintenance	PMU for Revamping Program of Primary and Secondary Healthcare Department and District Health Authority
	3.4 Concerned Federal Ministry	Ministry of National Health Services, Regulation and Coordination Pakistan

4. PLAN PROVISION

Sr #	Description
1	Source of Funding: Scheme Listed in ADP CFY
2	GS No: 5272
3	Total Allocation: 0.000
4	Comments: Funded out of block provision reflected at G.S No.658 with an allocation of Rs. 1,800 million (Capital = Rs. 1.300 Million & Revenue = Rs. 500 Million).

5. PROJECT OBJECTIVES

Attached

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

The Government of Punjab is making strenuous efforts for a better and effective Health Care system. The Defining step in this direction was to recognize the importance of Health Care at Primary & Secondary Levels. As a first step towards better health care at primary and secondary level, the department under the guidance of Government of the Punjab has decided to launch massive revamping of 40 THQ & DHQ Hospitals in the financial year 2016-17 along with revamping of emergencies of 15 selected THQs and emergencies of all Hospitals. In addition to that, Government has assigned the task of revamping of all remaining 85 THQ Hospitals of Punjab during 2017-18. The Project Management Unit, Revamping Program, Primary and Secondary Healthcare Department has started the 2nd Phase of the said revamping program in September, 2017.

5.1 Background of Primary & Secondary Healthcare Department

Effective primary and secondary healthcare is particularly important in resource-poor countries. Effective delivery of vaccinations, maternal and child care (MCH) and treatment of common pathologies (such as malaria, gastroenteritis, respiratory tract infections and other vector borne diseases) is essential for the achievement of Sustainable Development Goals (SDGs). Effective diagnostic triage, an organized system of prescription and queue management, an effective and stringent sterilization regime, quality nursing and consultant care, implementation of minimum service delivery standards (MSDS) and delivery of care for chronic pathologies lie at the center for the provision of universal health care at a cost that the community can afford as envisaged in domains established by the 1978 Alma-Ata Declaration of WHO. Primary care serves as the cornerstone for building a strong healthcare system that ensures positive health outcomes and health equity. The deficiencies in quality of care represent neither the failure of professional compassion nor necessarily a lack of resources rather, they result from gaps in knowledge, inappropriate applications of available technology and unstructured planning. Local health care systems in our setup have practically not been able to implement department's objectives. Result is continuous lack of quality improvement to lower health outcomes.

Quality health care is actually provision of health care by timely, 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 (system wide microscopy for diagnosing tuberculosis, for example); stopping overuse of some care (prenatal ultrasonography or unnecessary injections, for example); and ending misuse of unneeded services (such as unnecessary hysterectomies or antibiotics for viral infections). 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 health care, The Government of Punjab is dedicated in making strenuous efforts for ensuring 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, a separate department was created by bifurcating the Health department into two departments Specialized Health Care & Medical Education Department and Primary & Secondary Health Care (P&SH) Department. The principle reason for bifurcation has been to improve governance and service delivery in the spheres of health care across the province. Primary and Secondary Health Care Department has been entrusted the responsibility of primary and secondary level health facilities including preventive health services and Vertical Programs. P&SH Department accordingly has its functional responsibility in respect of 26 District Headquarter Hospitals (DHQs), 129 Tehsil Headquarter Hospitals (THQs), 322 Rural Health Centers (RHCs) and 2,504 Basic Health Units (BHUs). Moreover, specialized programs like Expanded Program for Immunization (EPI), TB Control (DOTS), Hepatitis Control Programs as well as special campaigns such as Dengue Campaign, Polio Eradication Campaigns also fall in purview of the department. The establishments like Director General Health Services (DGHS), Drug Testing Labs (DTLs) and Bio-medical Engineering Workshops also assist the department in discharge of its functions efficiently. Establishment of Internal delivery Unit at Primary and Secondary Health Care Department has been aimed for institutional strengthening and capacity building of Primary and Secondary Health Care Department. Monitoring and follow up remains one of key ingredients for good governance and is at heart of all management models. Therefore, an Internal Delivery Unit, comprising well qualified and experienced persons, is being established within P&SH Department. Internal Delivery Unit shall be manned with qualified and experienced consultants. Internal Delivery Unit shall be responsible for every such task needed to strengthen the PSHD which may range from operational matters to monitoring e.g. tracking pace of all initiatives of the Department through the process such as tracking procurement of medicines by districts, procurement of vaccine by Director EPI, pace of various development schemes and performance of Drug Testing & Bio-mechanical Labs etc.

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.

Due to lack of structured planning and monitoring, previous efforts did not materialize into an integrated health care regime, rather these have resulted in

haphazard construction, poor repair and maintenance, lack of basic amenities, absence of waiting areas, substandard diagnostics and therapeutics, shabby outlook and suboptimal level of patient care over all. Such state of affairs has severely jolted level of trust in health care system by common man and hence the patients prefer to visit tertiary level hospitals or even private health facilities for treatment of even very common pathologies. This subsequently has a cascade effect on socioeconomics of common man who has to spend more in shape of travelling from villages to district headquarters and then bearing costs of private treatment, secondly, this has also increased disease load on our tertiary health care establishments.

Keeping in view this importance of primary and secondary health care, the department decided to launch massive revamping program for all DHQs and THQs all over the Punjab.

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

In order to successfully complete the program objectives in the given timeframe, it is imperative to establish a dedicated Program Management Unit (PMU) having technical and administrative expertise and autonomy, as the regular machinery of the department is too busy with the routine work and cannot successfully steer the program. The PMU is responsible for the successful implementation of the Revamping Program through completion of all related projects. After the implementation of all these projects, the Primary & Secondary Healthcare network will be improved. The PMU shall ensure that the DHQ & THQ hospitals have a well-constructed physical infrastructure with vibrant management model for efficient service delivery and improved processes to focus on patient distress in prompt manner. It adheres to Minimum Service Delivery Standards (MSDS) to address the patients' needs in the most efficient and systematic manner.

In this regard, a dedicated team of Project Management Unit (PMU) has been established to execute the project. PMU's office is located at 31-E/1, Shahrah-e-Imam Hussain, Gulberg-III, near Qaddafi stadium, Lahore. It is headed by a Project Director with a committed team comprising of Deputy Project Director, Finance and Administration, ICT), Project Managers, Project Officers, Engineers, supporting administrative and technical staff, experienced and qualified Health consultants., Directors (Operations, Human Resource & Planning and infrastructure, Outsourcing) as well as Procurement Specialist.

5.3 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 four categories

5.3.1 External Development

5.3.2 Internal Development

5.3.3 Medical Infrastructure Development

5.3.4 Emergencies Development

5.3.1 External Development

5.3.1.1 External Platforms

In order to improve the communication between blocks, necessary interventions are taken to improve the existing internal metaled road network. Moreover, new internal metaled road network is also designed and proposed to access the blocks of hospital accordingly. Despite the improvement in metaled road network, external platforms except metaled road is also designed and proposed for patients to access the blocks by simply walking among the blocks.

5.3.1.2 Façade Improvement

In order to improve the aesthetics of hospital, façade uplift with aluminum composite panels with aluminum cladding, false steel structures, façade aluminum windows and aluminum doors are designed in order to give the feel of modern architectural era.

5.3.1.3 Sewerage System

The most important entity of a hospital lies in its cleanliness. Infrastructural interventions to keep the hospital clean were taken in the form of improvement of sewerage system of the hospital. 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 Landscaping (Horticulture)

Landscaping in hospital adds aesthetic & beauty to the built environment as well as improves in reducing the pollution. Soft & hard landscape reduces dust particles moment in air, hence contributes in a clean environment. The hours spent

in a hospital can be stressful for patients, staff and visitors. According to research easy access to a natural environment can contribute to stress management and potentially improve health outcomes: physiological studies indicate that 3-5 minutes spent in such Hospital Outdoor Landscape Design environments reduces anger, anxiety and pain and induces relaxation. Research also shows that “positive distractions” can reduce stress and their visual forms include gardens, scenic views and artwork, which play a critical role in modern hospital design: gardens, fountains, and water features provide patients, staff and visitors with restorative experiences of nature. In this regard complete lawns development, placement of benches, dust bins, playing equipment, fruit trees, flower plants, fruit trees and gazebos are proposed in all hospitals under revamping program

5.3.1.5 Water Filtration Plant

In the modern era, the access to clean water for everyone is becoming rare day by day. Especially in hospitals, the supply of water free from any harmful impurity is one of the most basic needs. To cope up with this problem water filtration system according to the existing nature of water is designed and water filtration plant is proposed accordingly. For ease of patients, drinking water supply network was designed to provide filtered water in wards and in various drinking stations within the hospital building

5.3.1.6 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.

5.3.1.7 Parking and Waiting area

Non-clinical facilitation of patients and attendants were specially considered in the revamping program. One such facilitation step is designing the parking and waiting areas on basis of daily influx of vehicles and patients/attendants during the

peak hours. Parking and waiting areas on several places of hospital were then proposed according to the design.

5.3.1.8 External Signage

External signage system is designed including various signage types for complete guidance of patient attendants and to search concerned facility promptly.

5.3.2 Internal development

5.3.2.1 Aesthetic improvement

In order to improve the aesthetics of hospital wards, corridors, rooms and toilet blocks, flooring and dado design of suitable material in these areas is proposed. Despite of aesthetics, the material of flooring and dado design were chosen to provide ease in cleaning process. For further improvement in aesthetics, paint on exterior and interior part of the hospital, poly-vinyl chloride paneling to conceal the dampness damaged areas and steel cladding of columns are proposed.

5.3.2.2 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.

5.3.2.3 Seamless flooring and Lead Lining

To keep high risk areas like Operation theaters, I.C.U, C.C.U, 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 X-Ray rooms radio-resistant and to keep the patients away from the harm of rays, interventions are taken in X-ray rooms 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 X-Ray rooms.

5.3.2.4 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.

5.3.2.5 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.

5.3.2.6 Facilitation of attendants and patients

The facilitation of attendants is also one of the most basic things to be provided in the hospital. The facilitation of attendants contributes towards the facilitation of patients. In order to facilitate the attendants, pantries are designed at that location of hospital where attendants can be effectively facilitated. These pantries include stoves and washing machines. Moreover, it is also very important to educate the patients and attendants regarding the seasonal and general diseases along with its cure and prevention. Installation of LED televisions in various locations of hospitals especially in wards and waiting areas is also proposed in the design in this regard.

5.3.2.7 Furniture and Fixtures

One more step towards the facilitation of attendants or patients is placement of benches in waiting areas. The most rush positions of hospital are chosen in this regard and placement of benches is designed according to the patient number and flow. In order to improve the efficiency of consultants or doctors, interventions regarding the renovations of doctor or consultant office are designed in this regard. The doctor room furniture is designed for this purpose keeping in view the existing area of room and necessary required equipment. To carry and dispose of the medical and general waste material of hospital, waste bin sets are designed to place at various positions of the hospital. These positions are marked by keeping in view the general circulation of the public and sensitivity of the area.

5.3.2.8 Air Conditioners, Refrigerators and LEDs

According to the different standards, there is a separate requirement of temperature to control the environment of particular place with respect to the nature of facility. In this regard, air conditioners are proposed according to the required tonnage of the specific area. For better efficiency and performance delivery, cabinet air conditioners are proposed in the wards and other facilities having larger areas. The maintenance and repair services of these air conditioners are outsourced so that uninterrupted performance can be delivered. For further facilitation of patients and attendants, placement of refrigerator is proposed on each nursing counter. These refrigerators are proposed for items requiring specific temperature for storage purposes. LEDs will also be placed at various points to facilitate the patients and attendants.

5.3.2.9 Internal Signage and Paintings

As described earlier, the information regarding the positions of major health facility especially emergency and labor room etc. is very much essential for any person entering inside the covered area of hospital. For these purposes, different types of signage are proposed including corridor hanging signage, floor map boards, room numbers and room names plaques. For general information duty rooster boards, janitorial station signage, waste bin set signage, emergency exit signage.

Different kinds of paintings are designed according to the nature of area where it is desired to be fixed. These paintings are beneficial in a sense that it improves the aesthetics of hospital and moreover, such painting patterns are designed so that it give the relaxation and soothing feelings to aid in the healing of patients. Moreover, in order to create a healthy, positive, entertaining and friendly environment for interest of children, paintings on children wards is proposed.

5.3.3 Medical Infrastructure Development

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.

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 Emergency Department:

All THQS and DHQs are already providing emergency services to critical ill patients. As far 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.

5.3.3.1.1 General Overview of Emergency Department

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

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

5.3.3.1.2 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. The far positioning of emergency department will result the lost in time for patient during its travelling which can be crucial.

5.3.3.1.3 Access towards the Emergency Department

The route leading towards the emergency department is important in this aspect that a smooth track and a widened path will be feasible for the movement of vehicle or stretcher. Initiatives are taken in this program for construction of new pathways or renovation of existing ones leading towards the emergency department. Such material of the external platform is selected so that a smooth movement should be observed over it rather than jerks bumps. Moreover, the width of the passage from entrance gate up to emergency department is designed by keeping in view the flux of the vehicles rushing towards the emergency block.

5.3.3.1.4 Medical Infrastructure Emergency:

The existing emergency department or other block of the hospital according to its access from entrance gate, is designed and re planned according to the above described emergency facilities. The changings or amendments in the existing covered area of the hospital are proposed according space availability. Due to the rush of patients and increased number of minor surgeries performed in the emergency department make it one of the dirtiest department of the hospital. Hence, in this regards it is very much essential to keep the floors of certain area of emergency department bacteria free. Seamless flooring is proposed in this regard to avoid the groves so that the cleaning process can be made easy. Low epoxy paint is designed and proposed in this regard on Minor OT, Gurney area and specialized healthcare unit.

Provision of medical gasses is essential to facilitate the patients suffering from breathing issue due to some disease and ailment. The filling process of oxygen in the cylinders is outsourced to ensure the continuous supply of the oxygen among the beds. The oxygen system comprises on copper pipe, central oxygen supply system for pressure maintenance, oxygen cylinders and flow meter with bed head units.

5.3.3.1.5 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

5.3.3.2 Monitoring and Quality Assurance (Process Interventions)

During construction phase, “Construction Supervision” will be carried out by the Procuring Agency (Director Infrastructure) along with Punjab Buildings department (C&W D) who will certify construction activity.

5.3.3.2.1 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 Secondary HealthCare 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 THQ hospital provides promotive, preventive, curative, advance diagnostics, inpatient services, advance specialist and referral services. 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. 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 Strengths, Weaknesses, Opportunities, and Threats (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.

5.3.3.3 Laboratory

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the Laboratory in THQ hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in diagnosis and treatment according to diagnosis in case of lack of laboratory in vicinity.

5.3.3.4 X-Ray

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the Radiology unit in THQ hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in diagnosis and treatment according to diagnosis in case of lack of Radiology unit in vicinity. A healthy human being enables not only nutrition of the physical body but also enhances social interaction and promotes self-esteem and feelings of self-esteem and feelings of wellbeing. The radiology equipment serves as a “window “to the patient treatment regarding the body.

5.3.3.5 CCU

Understanding these ground realities Primary and Secondary Healthcare Department, Government of the Punjab has decided to establish coronary care units (CCU) in THQ 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.

5.3.3.6 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.

Tehsil head Quarter Hospital (THQ) serve large catchment populations of the district and provide a range of specialist care in addition to basic outpatient and inpatient services. Patient who are in need of dialysis, are referred to tertiary care hospital due to non-availability or insufficient number of dialysis machines. Patient's condition not only deteriorate but also compromise the effectiveness of life saving intervention due to approaching to other cites or to costly private setups of dialysis. Primary and Secondary Healthcare Department has decided to establish & strengthening already existing 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.

5.3.3.7 Labor Rooms/Nurseries

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the Labor Rooms/Nursery unit in THQ hospitals.

5.3.3.8 Operation Theater

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the Operation Theater in THQ hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in treatment according to diagnosis in case of lack of Operation Theater in vicinity.

5.3.3.9 Orthopedic unit

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the orthopedic unit in THQ

hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in diagnosis and treatment according to diagnosis in case of lack of orthopedic unit in vicinity.

5.3.3.10 Gynecology Department

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the gynecology unit in THQ hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in diagnosis and treatment according to diagnosis in case of lack of gynecology unit in vicinity.

5.3.3.11 Surgical Unit

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the surgical unit in THQ hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in diagnosis and treatment according to diagnosis in case of lack of surgical unit in vicinity.

5.3.3.12 Intensive Care Unit (ICU)

Tehsil Headquarter Hospitals (THQ) serve catchment populations of the whole Tehsil (0.5-1 million) and provide a range of specialist care in addition to basic outpatient and inpatient services. They typically have about 80 to 150 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 THQ 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 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.

5.3.3.13 Mortuary Unit

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the mortuary unit in THQ hospitals. Postmortem or autopsy is a part of medico legal investigation into a death which is conducted by a judicial medical officer. Realizing the problems countered medico legal process focusing on following important areas;

1. Improving quality and motivation levels of human resource conducting medico legal Examination.
2. Improve methods to collect and preserve samples so that so that these may best be available for further forensic analysis.
3. Improving physical infrastructure at tehsil level to provide enabling environment for better conduct of medico legal cases including improvement in state of mortuaries at tehsil level.
4. Improvement in legal framework including improved forms.

5.3.3.14 Dental Unit

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the dental unit in THQ hospitals. Majority of patients are suffering problems some time life threatening phases due to delay in diagnosis and treatment according to diagnosis in case of lack of dental unit in vicinity.

5.3.3.15 Physiotherapy Unit (33 THQ Hospitals)

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the physiotherapy unit in all THQ hospitals. Majority of patients are suffering problems some time life threatening

phases due to delay in diagnosis and treatment according to diagnosis in case of lack of physiotherapy unit in vicinity.

1. Physiotherapy is a “science of healing and art of caring”. It pertains to the clinical examination, evaluation, assessment, diagnosis and treatment of musculoskeletal, Neurological, Cardio-Vascular and Respiratory systems ‘functional disorders including symptoms of pain, edema, and physiological, structural and psychosomatic ailments. It deals with methods of treatment based on movement, manual therapy, physical agents, and therapeutics modalities to relieve the pain and other complications. Hence, Physical therapy covers basic parameters of healing sciences i.e. preventive, promotive, diagnostic, rehabilitative, and curative.
2. Physiotherapy practice has a very long history and a modern clinical practice is heavily reliant on research and evidence based practice. The Primary and Secondary Healthcare Department Government of Punjab attests to this commitment by adopting and promoting the Standards of Practice for Physiotherapy.

Importance of Physiotherapy and Rehabilitation department

1. Physiotherapy provides services to individuals and populations to develop maintain and restore maximum movement and functional ability throughout the lifespan. This includes providing services in circumstances where movement and function are threatened by aging, injury, disease or environmental factors. Functional movement is central to what it means to be healthy.
2. Physiotherapy is concerned with identifying and maximizing quality of life and movement potential within the spheres of promotion, prevention, treatment/intervention, habilitation and rehabilitation. This encompasses physical, psychological, emotional, and social wellbeing. Physiotherapy involves the interaction between physical therapist, patients/clients, other health professionals, families, care givers, and communities in a process where movement potential is assessed and goals are agreed upon, using knowledge and skills unique to physical therapists.
3. The proposed project entails setting up a Physiotherapy and Rehabilitation Department. Being one of the major players in human service sector, rehabilitation Departments provide a wide range of services relating to physical impairments and disabilities of all age groups. These services range from assessment, evaluation, diagnosis, treatment and plan of care of individuals, from newborns to the very oldest, who have medical problems or other health-related conditions that limit their abilities to move and perform functional activities in their daily lives. These services will be provided by qualified Physiotherapists Consultants. Our consultants

examine each individual and develop a plan using treatment techniques to promote the ability to move, reduce pain, restore function, and prevent disability. In addition, our doctor work with individuals to prevent the loss of mobility before it occurs by developing fitness- and wellness-oriented programs for healthier and more active lifestyles. The proposed Physiotherapy and Rehabilitation Department will provide all these services under one roof.

Opportunity Rationale

Due to vast media exposure over past few years, women, as well as men, have become more conscious about their health especially youngsters. In Pakistan, Rehabilitation Clinics and Fitness Centers have grown over the years. It is easy to open GP clinic as space and skill requirement is very basic. But a Rehabilitation clinic provides more professional services with qualified staff including Physiotherapy doctors and experienced support staff and therefore, requires more planning and arrangement. Quite a few Physiotherapy and Rehabilitation Departments have opened in Lahore, Islamabad, Karachi and other relatively larger cities of Pakistan, which are catering to the demand of the people, but still there is a lot of unfulfilled demand as can be judged from excessive rush at the existing Physiotherapy Departments. The patient's ratio and problems with musculoskeletal disorders and neurological disorders are same in the tehsils and districts levels of Punjab. The business is service-oriented and carries large potential for serving poor people due to its unique nature and uncontrolled spreading of joints and muscles, and neurological problems, especially in the areas where our THQ Hospitals are located. There is lot of potential in this domain, especially for those who are committed to providing quality service.

5.3.3.16 Queue Management System (QMS)

OPD in THQ has enormous patient load, due to the only big public sector serving hospital in 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 THQ is given as follows:

There are 25 counters at THQ 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. Detail of equipment is attached.

The process described above for THQ will be implemented. 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.

5.3.3.17 Electronic Medical Record (EMR)

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. Detail of equipment is attached.

5.3.3.18 Video Surveillance through CCTVs

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 by Outsourced Security Company in the 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 THQ 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 85 public sector healthcare facilities. Detail of equipment is attached.

5.3.3.19 Medicine Store

To improve the quality of medical care of patients, primary and secondary Healthcare Department has decided to improve the medicine store in THQ hospitals.

5.3.3.20 Day Care Center

On-site (or near-site) child care would lead to improve workplace satisfaction by allowing employers more frequent contact with their children,

reducing stress and anxiety over scheduling, and potentially providing financial benefit to the hospital. Therefore, P&SH Department has decided to establish the Day Care Center at every THQ Hospital. The Medical Superintendent of the concerned hospital will be the overall in-charge of the Day Care Center.

5.4 Out Sourcing of Non Clinical Services

It was planned to provide Outsourcing of following Non-clinical services through development Budget later on decided to shift to non-development Budget as per the decision of progress review meeting chaired by the Chairman P&D Board dated 01-01-2018 w.e.f. 30-06-2018:-

1. Janitorial services
2. Laundry services (On hold)
3. MEPG Services
4. CT scan
5. Security

5.4.1 Janitorial services

These services include cleaning of hospitals and its roads and ROW areas. Internal cleaning comprises of complete cleaning along with washrooms cleanliness and material for these services such as hand wash/sanitizer. The Outsourcing is hereby designed keeping in view the sizes of areas assigned to each sanitary worker along with condition and nature of service. Human resources are planned after measuring the total area of hospital, built up area excluding the areas of horticultural land and residential buildings. The workers shall work in three shifts in a day. Half of the total strength of sanitary workers shall work in morning shift due to patients load in OPD. The concerned sanitary work company is bound to provide cleaning services materials and their refilling as and when required.

The companies providing janitorial services will be required to provide quality janitorial services, complete their personnel strength on daily basis which will be ensured through biometric attendance. Also, the companies will be subject to pecuniary penalties by hospital authorities if services provided are not according to the contracts.

5.4.2 Laundry Services

Different models were being applied by the hospital administrations individually which were not properly catering the basic requirement of washing and disinfection of different items used for hospitals. This model includes the initial procurement of different daily use items such as three different colors bed sheets and pillow covers and are to be changed thrice a day. Moreover, the concerned company must provide washing and cleaning services of bed sheets, pillow covers, blankets along with covers, apparels/OT clothes.

5.4.3 MEPG Services

The service of the hospitals is suffering badly due to improper functionality of the existing electrical and mechanical equipment which arises due to lack of maintenance. This model satisfies the need of proper maintenance plan which comprises of regular visits of technicians for looking after of electrical and mechanical equipment and accessories. Outsourcing company will be responsible for immediate response and above mentioned services.

5.4.4 CT Scan Services

CT Scan Services in selected Hospitals of Punjab are also being undertaken as a component of Government's decision to revamp all Secondary Healthcare. The objective of this initiative is to provide high quality CT Scan Services to widely scattered population of low socio-economic groups at their door steps. It will ensure provision of satisfactory diagnose infections, muscle disorders, and bone fractures. The imaging technique of CT Scan can help doctor to study the blood vessels and other internal structures and assess the extent of internal injuries and internal bleeding.

5.4.5 Security

The outsourcing model is designed due to non-provision of security arrangements and improper parking in different areas of premises of hospital. This model consists of guards who shall work in two shifts to provide security and surveillance for complete premises of hospital excluding residential areas. The devices required for this service to operate are arms, walkie talkie, Base set per unit and torch etc.

5.6 HR & Management Interventions Structure

HR Interventions can be broadly classified into introduction of New Management Structure (NMS) staff.

New Organogram of Hospital



MS

- AMS/ SUPPORT MANAGER
 - IT/Data Analysis
 - IT/ Statistical Officer
 - 4 Data Entry Operators
- Admin
 - Admin Officer
 - 4 Monitors
 - Security
 - Transport
 - Parking
 - Janitorial
 - Canteen
 - External House Keeping
 - Civil Works
 - Technical works
 - Electrical Works
 - Internal House Keeping
 - Laundry
 - Stores & Supplies



5.6.1 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

5.6.2.1 Medical Superintendent

Shall be overall responsible for all the affairs of the Hospital

5.6.2.2 AMS Admin.

Shall be responsible for following functions in addition to his own duties:

1. General administration
2. IT/Data analysis/statistics keeping (biometric machines, etc.).
3. In case of outsourced interventions like QMS/EMR he shall be responsible for enforcement of contract and in case of violation shall ensure action has been taken as envisaged in the contract.
4. He shall be responsible for entry of data on Citizen Feedback Model.
5. He shall be responsible for ensuring collection of report of actions taken on CFM reports and entry of that on CFM.
6. He shall be responsible for implementation of any IT related initiative in the hospital.
7. He shall be responsible for better record keeping of hospital
8. He shall devise and implement systems for better record keeping of hospital

9. He shall ensure generation of all types of reports/information required of hospital by District Government/P&SHD/any other authorized Public agency

New Management Structure (NMS)

In place of the clerical positions, the P&SH Department has introduced a New Management Structure (NMS), in all District and Tehsil Headquarters Hospitals. The officers recruited as a part of the NMS have a minimum of 16 years of education. Their minimum qualification is MBA / B.Sc. Engineering / M.Com / Pharm-D / M.Cs / LLB / MPA / CA Inter / ACCA / ACMA / Master Degree or equivalent in relevant field etc. Their recruitments were undertaken through a competitive process by a third party testing service.

5.6.2.3 Admin Officer

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

1. Security
2. Transport
3. Parking
4. Janitorial
5. External housekeeping
6. Electrical works
7. Internal housekeeping
8. Laundry
9. 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

1. Minimum qualification Masters' degree in Economics/ Public Administration/ Finance/ MBA Finance/Administration or equivalent from HEC recognized University

2. Minimum 2 years post degree experience of administration
(Additional credit may be given for hospital administration/
Public sector administration of similar nature)

5.6.2.4 Human Resource 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 Economics/ Public Administration/ Finance/ MBA HR/Management/ Finance/Administration or equivalent from HEC recognized University
2. Minimum 1 year post degree experience of administration
(Additional credit may be given for hospital administration/Public sector experience of similar nature)

5.6.2.5 IT/Statistical Officer

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

He shall be in liaison with HISDU, P&SHD for proper reflection of hospital record on HISDU 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 or equivalent from HEC recognized University
2. 2 years post degree experience of IT/Data analysis(Additional credit may be given for similar assignment experience)

5.6.2.6 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 & Finance/MS/P&SHD

Eligibility Criteria

1. Minimum qualification Masters' degree in Finance/ MBA Finance or equivalent from HEC recognized University (Additional credit may be given to Charter accountant/ACCA)
2. Minimum 2 years post degree experience of Finance, Accounts & Budget (Additional credit may be given for Public sector experience of similar nature)

5.6.2.7 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 or equivalent from HEC recognized University
2. 2 years post degree experience of procurement (Additional credit may be given for public sector experience of procurement)

5.6.2.8 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 experience.

5.6.2.9 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.

5.6.2.10 Data Entry Operators (DEO)

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

Eligible Criteria

1. Minimum qualification BA / B.Sc / B.COM / BCS or equivalent from HEC recognized University. In case of BA/B.COM candidate must have six months computer course / Diploma.

2. Proficient in MS Word/ MS Excel/ MS Power point (additional credit may be given for additional relevant certified computer courses)
3. 1 years post degree relevant experience

5.6.2.11 Assistant Admin Officer

Shall be responsible for general administrative affairs of hospital and assist the admin officer.

Eligibility Criteria

1. Minimum qualification Masters' degree in Social Sciences/Economics/ Public Administration/ Finance/ MBA Finance/Administration or equivalent from HEC recognized University
2. Minimum 2 years post degree experience of administration (Additional credit may be given for hospital administration/ Public sector administration of similar nature).

5.7 HR for QMS and MSDS and Day Care Center.

5.7.1.1 QMS Supervisor / Information Desk Officer

Shall be responsible whole QMS networking

Eligible Criteria

1. M.Sc. (Comp. Engineering, Electronics, Electrical Engineering, IT, Telecommunication, Com. Science, Software Engineering, MCS), BCS (Comp. Engineering, Electronics, Electrical Engineering, IT, Telecommunication, Com. Science, Software Engineering, MBA, BBA, MPA, IT related 16 years Education.
2. Experience in the field of Software/Hardware/Network/DATA Quality Assurance, IT projects, IT enabled organizations, CCTV Control Room monitoring, Call Centre, Networking, Software Development will be considered as an added advantage during interview process.
3. Excellent communication Skill (Urdu, English) and IQ level
4. Age Limit of 21-28 years for Male & 21-30 years for Female
5. Typing Speed: 30WPM.

5.7.1.2 Computer Operators

Eight Computer operators shall help QMS Supervisor in dispensation of his responsibilities.

Eligible Criteria

1. Minimum qualification 14 year or Masters' degree from HEC recognized University
2. Proficient in MS Word/ MS Excel/ MS Power point (additional credit may be given for additional relevant certified computer courses)
3. 35 Word per Minute. Excellent communication in English and Urdu.

5.7.2 Consultants (MSDS) Implementation & Clinical Audit

Eligible Criteria

1. MBBS & Masters in Public Health, or equivalent qualification.
2. The consultant must have 10 years of hands on experience of third party validation, clinical audit of hospitals, Minimum Service Delivery Standards (MSDSs) implementation / hand holding; Report Writing; working knowledge of international best practices in hospital management will be preferred. Proficiency in MS Office is must. Must have strong communication skills.

5.7.2.1 Terms of Reference (TORs) for Consultants Minimum Service Delivery Standards (MSDS) Implementation & Clinical Audit

Government of the Punjab, Primary and Secondary Healthcare Department (P&SHD) is implementing multiple initiatives to improve the quality of healthcare at DHQ/THQ level across the province. One of the initiatives is Primary and Secondary Healthcare Revamping program which is being implemented by the Project Management Unit (PMU). Currently PMU is also involved in the standardization of quality of care at facility level through uniform set of Standard Operating Procedures (SOPs) & Standard Medical Protocols (SMPs) for compliance. The department intends to make all DHQs and THQ hospitals of Punjab as MSDS compliant which have been devised by Punjab Healthcare Commission.

Punjab Healthcare Commission was established under the PHC Act 2010 as an autonomous regulatory body for health sector; with the purpose of improving the quality, safety and efficiency of healthcare service delivery for all Public and Private Healthcare Establishments (including Allopaths, Homeopaths and Tibbs) in the province of Punjab. The Punjab Healthcare Commission has developed

Minimum Service Delivery Standards (MSDS) for all hospitals to improve the quality of healthcare services all over the Punjab. All Healthcare Establishments are required to implement MSDS to acquire a License to deliver healthcare services in Punjab.

This standardization effort will not only ensure availability of minimum services delivery standards (MSDS), SOPs, SMPs at all levels, but also the other essential inputs for functioning of systems and processes to ensure the smooth and safe delivery of quality healthcare services. These will also create conducive working environment for healthcare providers.

5.7.2.2 Objectives

The objective of this assignment is to implement & check all SOPs, SMPs, Minimum Service Delivery Standards (MSDS) & conduct clinical audit for 125 DHQ/THQ hospitals. Furthermore, the consultant will also monitor ongoing multiple trainings at DHQ/THQ hospitals.

5.7.2.3 Scope of Work

1. Develop policy & strategy for clinical audit of 125 hospitals.
2. Develop detailed clinical audit plan, with expected deliverables from hospitals. 360 degrees clinical audit.
3. Visit DHQ/THQ hospitals, to assess MSDS implementation and detailed report generation with short coming & highlight areas of improvement.
4. Review SOPs, SMPs & ISO Standards in hospitals to identify non-compliance.
5. Visit DHQ/THQ hospitals to implement clinical audit as per devised strategy, as well as monitoring and implementing MSDS standards.
6. Prepare detailed visit reports of clinical short comings; and suggest, and implement improvement plan.
7. Monitoring & auditing of patient referral system, detailed report on error and recommendations on rectification of errors.
8. Visit DHQ/THQ hospitals to implement clinical audit as per devised strategy, as well as monitoring and implementing MSDS standards.
9. Prepare detailed visit reports of clinical short comings; and suggest, and implement improvement plan.
10. Monitoring & auditing of patient referral system, detailed report on error and recommendations on rectification of errors.
11. Monitoring and evaluation of multiple trainings imparted at DHQ/THQ hospitals.
12. Any other relevant task assigned by Project Director/Director Quality Assurance / Project Manager.

5.7.2.4 Reporting Arrangements

- The Consultant (MSDS & Clinical Audit) will report to the Project Director/Director Quality Assurance/Senior Project Manager, P&SHD

5.7.2.5 Duration of Assignment

- The duration of assignment will initially be for THREE MONTHS / 120 DAYS which will be extendable subject to satisfactory performance.

5.7.2.6 Outputs / Key Deliverables

- Study/desk review the relevant Minimum Service Delivery Standards (MSDS) prescribed by PHC & ISO Standards, train the hospital staff/monitor/facilitate their implementation.
- Study/desk review the existing Standard Operating Procedures (SOPs), train the hospital staff/monitor/facilitate their implementation and suggest improvements where necessary.
- Study/desk review the existing SMPs, train the hospital staff/monitor/facilitate their implementation and suggest improvements where necessary.
- Conduct hospital visits of 125 DHQ/THQ hospitals (each DHQ hospital to be visited monthly & each THQ hospital every three months).
- Conduct formal hospital survey for confirming the implementation of MSDS on the relevant Scoring Matrix.
- Submit detailed report of each hospital visit on a standard format prescribed for the purpose.
- Conduct a system, process analysis with special emphasis on clinical audit and submission of detailed report accordingly.

5.7.2.7 Remunerations

- The consultant will be paid amount of Rs. **4500-6500/- per day** with no other benefits.
- All logistics will be arranged/reimbursed by PMU for field visits (accommodation, refreshments etc).

5.7.2.8 Terms of Payment

- Consultant will be paid on monthly basis throughout the contract period.

5.7.3 HR for Day Care Center

5.7.3.1 Manager Day Care Center (DCC)

Shall be responsible for general administrative affairs of DCC.

Eligibility Criteria

1. Minimum qualification Masters' degree in Economics/ Public Administration/ Finance/ MBA Finance/Administration or equivalent from HEC recognized University
2. Minimum 2 years post degree experience of administration (Additional credit may be given for hospital administration/ Public sector administration of similar nature)

5.7.3.2 Montessori Trained Teacher

Shall be responsible for basic education of children.

Eligibility Criteria

1. Minimum qualification BA/BSC or equivalent from HEC recognized University along with B.Ed.
2. Minimum 1 years post degree experience of teaching (Additional credit may be given for Public sector teaching of similar nature)

5.7.3.3 Attendant / Care Giver

Shall be responsible for special care of the children.

Eligibility Criteria

Minimum qualification Matric or equivalent alongwith diploma in relevant field



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

PPS-10	437,500--700,000	5
PPS-11	612,500-- 980,000	5
PPS-12	875,000 --1,400,000	5

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

Name of Post	No. of Employees	Original Pay package approved		Revised Pay package	
		Per Month Salary	Salary for One Year	Per Month Salary	Salary for One Year
Admin Officer	1	80,000	960,000	105,000	1,260,000
Human Resource Officer	1	80,000	960,000	105,000	1,260,000
IT/Statistical Officer	1	80,000	960,000	105,000	1,260,000
Finance & Budget Officer	1	80,000	960,000	105,000	1,260,000
Procurement Officer	1	80,000	960,000	105,000	1,260,000
Quality Assurance Officer	1	80,000	960,000	105,000	1,260,000
Logistics Officer	1	80,000	960,000	105,000	1,260,000
Data Entry Operator (DEO)	2	35,000	840,000	44,000	1,056,000
Assistant admin Officer	2	50,000	1,200,000	70,000	1,680,000
Total	11		8,760,000	849,000	11,556,000

5.8 Other Initiatives:

There are many other initiatives which government plans to undertake in order to improve healthcare services in the province. These include:

- Rehabilitation of Emergency Ward
- Fixture of Benches
- Addition of Bracket Fans/Water Coolers/LCDs with signage
- Supply of Laboratory/ Equipment/USG/ECG etc.
- CCU Improvement
- Installation of Water filtration plants
- Replacement of Bed sheets/Pillows/Matresses
- Installation of Transformers/Dual Connection
- Improvement of Labor rooms/Nurseries

- Maintenance and replacement of Air-conditioners through Outsourcing
- Blood Bank improvement
- Installation of CCTV Cameras
- Installation of Basic Fire-fighting Equipment
- Up gradation of Pharmacy and medicine Store
- Improvement of Internal Roads and laying of Tough pavers
- External Development
- Rehabilitation of Hepatitis/T.B Control

The PMU is essential to deliver the project end-item within budget and time limitations, in accordance with technical specifications, and, when specified, in fulfillment of project objectives.

5.9 Patient Management Protocol

5.9.1 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.

5.9.2 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.

5.9.3 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.

5.9.4 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.

5.9.5 Project Monitoring Committee

A Project Monitoring Committee is proposed hereby as under to monitor the project regarding Revamping of THQ Hospital:

- | | | |
|----|----------------------------------|--------------------|
| 1. | Deputy Commissioner | (Chairman) |
| 2. | District Monitoring Officer | (Member) |
| 3. | Executive Engineer Buildings | (Member) |
| 4. | Assistant Commissioner Concerned | (Member) |
| 5. | MS THQ Hospital | (Secretary/Member) |

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

5.10 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.

6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT

Attached

1. 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-1. The Population of Jatoi District Muzaffargarh is more than 0.472 million. The area of the THQ Hospital Jatoi District Muzaffargarh is 224,533 SFT land.

6.1 Description and Justification

The Project Management Unit, Revamping Program, Primary and Secondary Healthcare Department planned to start the 2nd Phase of the said revamping program. The instant PC-I is also meant for provision of requisite biomedical and non-biomedical equipment, Electricity, Furniture & Fixture, Signage, HR and outsourcing of services for THQ Jatoi District Muzaffargarh

Revamping of THQ Jatoi District Muzaffargarh constitutes of value addition in all major domains of the hospital including improvement of Civil infrastructure, addition of water filtration plant facility, value addition in Emergency ward and making the health facility more equipped with modern bio-medical equipment. State of the art furniture and fixtures complemented by interior and exterior decors are also part of this revamping project backed by the thought of dedicated express line of electricity to ensure smooth operations of hospitals will bring the modern health facilities in healthy and comfortable environment at the door step of masses. Introduction of new model of outsourcing of laundry services to ensure provision of neat and clean bed sheets, pillow covers, blankets etc. round the clock is also a part of this project. Fool proof security and adequate cleanliness measures of whole health facility are also proposed in this PC-I.

Civil work component will be carried out through C&W Department instead of District Health Authority for this hospital. Value addition in Emergency block is proposed in four domains i.e. Triage, Minor O.T, Specialized care room and emergency ward. Addition of Water Filtration Plant facility where it is not available as unclean or polluted water is devastating for human health. A key consideration was made while selecting furniture and its compatibility with hospital grade cleaners, detergents and disinfectants. Signage is an effective interface between the user and intended facility. Effective signage promotes the healthcare facility in a patient friendly manner. Access is an important part of quality of care. A crucial aspect for patient satisfaction is their comfort levels with the facility itself i.e. a person's ease in navigating a facility, and the timeliness in receiving care. Clear and proper signage at strategic points helps patients in reaching their destination without losing much of their valuable time and saves lot of their efforts in unnecessary enquiring from persons. In this regard, the Equipment of Emergency, Bio-Medical, Non-Bio-Medical, Electricity, Signage, Janitorial, Security, Laundry, Maintenance of Generator and Horticulture have been added as per actual requirement of the Hospital. The Equipment of MSDS, IT, Furniture Fixture, Day Care Center, HR, Medical Gases, Cafeteria are fixed in all hospitals as per yardstick

established by P& SH Department. Prior to initiation of this exercise standardization of required facilities was done by committee of experts in P & SH Department and on the basis of it, gaps were identified which would be covered under this PC-I.

Justification for 3rd Revision of PC-I

1. Primary & Secondary Healthcare Department (P&SHD) made a decision to shift all the clerical posts in DHQ / THQ hospitals of Punjab to District Health Authorities as per notification dated 24th October, 2017. This administrative decision was taken due to a multiplicity of reasons which were adversely affecting healthcare service delivery in the hospitals. Primarily, these clerical posts were not specialized in any particular field, and therefore, the HR hired against these posts were generalized to the extent that they were not able to perform functions of Hospitals and Health Specific tasks that any medical administration should ideally perform. Additionally, public complaints against the clerical staff on issues such as behavior, performance created an environment of malfeasance in all hospitals. 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
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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.

2. 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 Tehsil Headquarter Hospitals and hence PC-I has been proposed till 30- 06-2025.

85 THQ Hospitals covered under the Program:

The location map of the 85 THQ hospitals that will be taken up for rehabilitation in this program is given below:

PROJECT MANAGEMENT UNIT
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT



LOCATION OF DHQ AND THQ HOSPITALS IN PUNJAB



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:LO17011149
A/C To be Credited:Assan Assignment

PKR Million

S r #	Object Code	2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025	
		Local	Foreign	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	103.373	0.000	100.000	0.000	100.000	0.000
Total		0.000	0.000	0.000	0.000	0.000	0.000	103.373	0.000	100.000	0.000	100.000	0.000

Financial Components: Capital
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):LE4203

Grant Number:Government Buildings - (PC12042)
LO NO:LO21010600
A/C To be Credited:Account-I

PKR Million

S r #	Object Code	2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025	
		Local	Foreign	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	33.211	0.000	30.000	0.000	30.000	0.000
Total		0.000	0.000	0.000	0.000	0.000	0.000	33.211	0.000	30.000	0.000	30.000	0.000

Abstract of Cost

Revamping of THQ Hospital Jatoi															
Scope of work	Original			1st Revised			2nd Revised			Amended 2nd Revised			3rd Revised		
	Cost in million														
	Capital	Revenue	Total	Capital	Revenue	Total	Capital	Revenue	Total	Capital	Revenue	Total	Capital	Revenue	Total
Capital component															
Internal development	0.000	21.982	21.982	0.000	21.982	21.982	26.949	10.000	36.949	31.094	10.000	41.094	40.099	10.000	50.099
External development	0.000	7.000	7.000	0.000	7.000	7.000	22.766	0.000	22.766	27.862	0.000	27.862	51.187	0.000	51.187
Water filtration plant	0.000	5.600	5.600	0.000	5.600	5.600	2.501	0.000	2.501	1.925	0.000	1.925	1.925	0.000	1.925
Total Capital Component	0.000	34.582	34.582	0.000	34.582	34.582	52.216	10.000	62.216	60.881	10.000	70.881	93.211	10.000	103.211
Revenue component															
Emergency	0.000	26.815	26.815	0.000	26.815	26.815	0.000	37.617	37.617	0.000	37.617	37.617	0.000	62.498	62.498
MSDS	0.000	8.647	8.647	0.000	8.647	8.647	0.000	9.654	9.654	0.000	9.654	9.654	0.000	13.438	13.438
Med. Machinery and Equipment	0.000	45.935	45.935	0.000	45.935	45.935	0.000	60.361	60.361	0.000	60.361	60.361	0.000	91.932	91.932
Electricity	0.000	13.379	13.379	0.000	13.379	13.379	0.000	15.979	15.979	0.000	15.979	15.979	0.000	27.491	27.491
IT & QMS & Surveillance	0.000	14.515	14.515	0.000	14.515	14.515	0.000	16.715	16.715	0.000	16.715	16.715	0.000	20.120	20.120
Furniture and Fixtures	0.000	13.504	13.504	0.000	13.504	13.504	0.000	13.504	13.504	0.000	13.504	13.504	0.000	18.788	18.788
Interior and Exterior decorations/ Signage	0.000	3.124	3.124	0.000	3.124	3.124	0.000	4.271	4.271	0.000	4.271	4.271	0.000	4.271	4.271
Day Care Center	0.000	1.600	1.600	0.000	1.600	1.600	0.000	1.600	1.600	0.000	1.600	1.600	0.000	1.600	1.600
Human resource (HR) plan	0.000	17.220	17.220	0.000	17.220	17.220	0.000	35.260	35.260	0.000	35.260	35.260	0.000	50.781	50.781
LC Deficit during procurement (currency fluctuation)							0.000	2.454	2.454	0.000	2.454	2.454	0.000	2.454	2.454
Total Revenue component	0.000	144.739	144.739	0.000	144.739	144.739	0.000	197.414	197.414	0.000	197.414	197.414	0.000	293.373	293.373
Outsourcing component															
Janitorial Services	0.000	11.537	11.537	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Security and Parking services	0.000	5.854	5.854	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Laundry Services	0.000	2.400	2.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Maintenance (Generator)	0.000	1.670	1.670	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEP	0.000	3.712	3.712	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Medical Gases	0.000	1.304	1.304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cafeteria	0.000	6.743	6.743	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Horticulture services	0.000	6.376	6.376	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total outsourcing cost	0.000	39.596	39.596	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.000	218.916	218.916	0.000	179.321	179.321	52.216	207.414	259.630	60.881	207.414	268.295	93.211	303.373	396.584
Contingency (1%) only on Civil Component	0.000	0.346	0.346	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Third Party Monitoring (TPM) (1%)	0.000	2.189	2.189	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Third Party Validation (TPV) (1%)	0.000	2.189	2.189	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Grand Total	0.000	223.641	223.641	0.000	179.321	179.321	52.216	207.414	259.630	60.881	207.414	268.295	93.211	303.373	396.584

Emergency Equipment

Sr. No.	Area	ITEM DESCRIPTION	Yard Stick	Original			1st Revised			2nd Revised			3rd Revised		
				Required Quantity (T=8+S=0+E=12)	Actual Unit Price	Actual Total Cost(Rs)	Required Quantity (T=8+S=0+E=12)	Actual Unit Price	Actual Total Cost(Rs)	Required Quantity (T=8+S=0+E=12)	Actual Unit Price	Actual Total Cost(Rs)	Required Quantity (T=8+S=0+E=12)	Actual Unit Price	Actual Total Cost(Rs)
1	Reception Area	Table	0		99,750	-		99,750	-		99,750	-		99,750	-
2		Chairs	0		26,775	-		26,775	-		26,775	-		30,000	-
3		Computer Data Entry With Printer	1	1	141,750	141,750	1	141,750	141,750	1	141,750	141,750	1	195,000	195,000
4	3	Table (2.5 X 4)*(N)	0	0	101,850	-	0	101,850	-	0	101,850	-	0	101,850	-
5	8	Chairs *(N)	0	0	26,775	-	0	26,775	-	0	26,775	-	0	30,000	-
6	Triage area	B.p apparatus wall type*(N)	3	8	15,750	126,000	8	15,750	126,000	8	30,000	240,000	8	30,000	240,000
7		Gurney WITH FOOT STEP)*(N)	3	8	420,000	3,360,000	8	420,000	3,360,000	8	460,000	3,680,000	8	800,000	6,400,000
8		Mercury B.P apparatus*(N)	2	6	33,600	201,600	6	33,600	201,600	6	36,000	216,000	6	36,000	216,000
9		Laryngoscope paed's & adult each*(N)	2	6	10,500	63,000	6	10,500	63,000	6	12,000	72,000	6	20,000	120,000
10		Diagnostic set*(N)	1	3	45,150	135,450	3	45,150	135,450	3	50,000	150,000	3	85,000	255,000
11		ECG Machine (with trolley) *(N)	1	3	169,785	509,355	3	169,785	509,355	3	180,000	540,000	3	300,000	900,000
12		Central oxygen with accessories FOR each	0	0	420,000	-	0	420,000	-	0	-	-	0	-	-
13		NEBULIZER HD*(N)	2	6	125,265	751,590	6	125,265	751,590	6	215,000	1,290,000	6	300,000	1,800,000
14		SUCKER MACHINE*(N)	1	3	259,350	778,050	3	259,350	778,050	3	275,000	825,000	3	300,000	900,000
15		Resuscitation Trolley (fully equipped) *(N)	1	3	244,733	734,199	3	244,733	734,199	3	400,000	1,200,000	3	600,000	1,800,000
16		INSTRUMENT CABINET*N	1	3	69,300	207,900	3	69,300	207,900	3	69,300	207,900	3	69,300	207,900
17		MEDICINE TROLLEY*N	1	3	60,900	182,700	3	60,900	182,700	3	60,900	182,700	3	60,900	182,700
18	Minor O.T	O.T table WITH foot step	1	1	1,417,500	1,417,500	1	1,417,500	1,417,500	1	2,000,000	2,000,000	1	2,500,000	2,500,000
19		Anesthesia Machine	1	1	2,509,554	2,509,554	1	2,509,554	2,509,554	1	3,000,000	3,000,000	1	7,000,000	7,000,000
20		Sucker machine	1	1	259,350	259,350	1	259,350	259,350	1	275,000	275,000	1	300,000	300,000
21		Portable O.T Lights	1	1	304,220	304,220	1	304,220	304,220	1	500,000	500,000	1	900,000	900,000
22		Ceiling o.t light	1	1	414,750	414,750	1	414,750	414,750	1	800,000	800,000	1	950,000	950,000
23		Hot air oven	1	1	110,000	110,000	1	110,000	110,000	1	385,000	385,000	1	450,000	450,000
24		Autoclave	1	1	441,000	441,000	1	441,000	441,000	1	550,000	550,000	1	850,000	850,000
25		Instrument trolley*N	1	1	54,000	54,000	1	54,000	54,000	1	54,000	54,000	1	55,000	55,000
26		Defibrillator*N	1	1	310,000	310,000	1	310,000	310,000	1	650,000	650,000	1	800,000	800,000
27		Instrument cabinet	1	1	69,300	69,300	1	69,300	69,300	1	69,300	69,300	1	69,300	69,300
28	Constant / specialized care room	GURNEYS*N	4		420,000	-		420,000	-		460,000	-		850,000	-
29		Sucker machine *(N)	2		259,350	-		259,350	-		275,000	-		300,000	-
30		Nebulizer HD*(N)	2		125,265	-		125,265	-		215,000	-		300,000	-
31		Center Oxygen supply*N	1		420,000	-		420,000	-		-	-		-	-
32		Resuscitation Trolley (fully equipped) *(N)	1		237,618	-		237,618	-		400,000	-		600,000	-
33		Defibrillator*N	1		302,605	-		302,605	-		650,000	-		800,000	-
34		Pulse- oximeter*(N)	4		104,000	-		104,000	-		160,000	-		225,000	-
35		Bedside-monitor*(N)	4		301,665	-		301,665	-		550,000	-		1,200,000	-
36		ECG MACHINE*(N)	1		169,785	-		169,785	-		169,785	-		300,000	-
37		BP APPARATUS*N	1		15,750	-		15,750	-		16,000	-		16,000	-
38	7	FOOT STEP)*(N)	1		3,150	-		3,150	-		4,000	-		5,500	-
39		ATTANDANT BENCH)*(N)	1		5,250	-		5,250	-		8,000	-		10,000	-
40		(MOTRIZED BEDS) with accessories (with foot steps)*(N)	7	12	210,000	2,520,000	12	210,000	2,520,000	12	400,000	4,800,000	12	600,000	7,200,000
41		ECG machine(with trolley) *(N)	1	2	169,785	339,570	2	169,785	339,570	2	169,785	339,570	2	300,000	600,000
42		Pulse- oximeter *(N)	6	11	104,000	1,144,000	11	104,000	1,144,000	11	160,000	1,760,000	11	225,000	2,475,000
43		Bedside-monitor*(N)	3	6	301,665	1,809,990	6	301,665	1,809,990	6	550,000	3,300,000	6	1,200,000	7,200,000
44		B.P apparatus wall type *(N)	6	11	26,250	288,750	11	26,250	288,750	11	30,000	330,000	11	30,000	330,000

Emergency Equipment

				Original			1st Revised			2nd Revised			3rd Revised		
Sr.	Area	ITEM DESCRIPTION	Yard	Required Quantity	Actual Unit	Actual Total	Required Quantity	Actual Unit	Actual Total	Required Quantity	Actual Unit	Actual Total	Required Quantity	Actual Unit	Actual Total
45	Emergency ward	Nebulizer HD *(N)	2	4	125,265	501,060	4	125,265	501,060	4	215,000	860,000	4	300,000	1,200,000
46		Resuscitation Trolley (fully equipped) *(N)	1	2	237,618	475,236	2	237,618	475,236	2	400,000	800,000	2	600,000	1,200,000
47		Defibrillator*N	1	2	299,153	598,307	2	299,153	598,307	2	650,000	1,300,000	2	800,000	1,600,000
48		Sucker machine *(N)	2	4	259,350	1,037,400	4	259,350	1,037,400	4	275,000	1,100,000	4	300,000	1,200,000
49	Generalized	Wheal chairs *(N)	0	0	31,500	-	0	31,500	-	0	35,000	-	0	35,000	-
50		Stretcher *(N)	0	0	69,300	-	0	69,300	-	0	69,300	-	0	69,300	-
51		ambo bag paedts with Mask*N	5	5	15,750	78,750	5	15,750	78,750	5	19,000	95,000	5	19,000	95,000
52		ambo bag adult with Mask* N	5	5	15,750	78,750	5	15,750	78,750	5	19,000	95,000	5	19,500	97,500
53		patient stool * N	2	2	4,085	8,169	2	4,085	8,169	2	4,500	9,000	2	5,000	10,000
54		Portable x-rays (300 M.A)	1	1	3,450,350	3,450,350	1	3,450,350	3,450,350	1	4,300,000	4,300,000	1	9,800,000	9,800,000
55		Portable ultra-sound	1	1	1,403,325	1,403,325	1	1,403,325	1,403,325	1	1,500,000	1,500,000	1	2,400,000	2,400,000
		Total				26,814,925			26,814,925			37,617,220			62,498,400
						26.815			26.815			37.617			62.498

MSDS

Sr. No.	ITEM DESCRIPTION	Original			1st Revised			2nd Revised			3rd Revised		
		Quantity Required	Actual Unit Price	Actual Total Cost(Rs)	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)
1	Histology slide boxes	3	3,100	9,299	3	3,100	9,299	3	4,500	13,500	3	4,500	13,500
2	Labeling Device connected with Computer	3	60,000	180,000	3	60,000	180,000	3	80,000	240,000	3	80,000	240,000
3	Safe Transportation Boxes	2	15,750	31,500	2	15,750	31,500	2	18,000	36,000	2	18,000	36,000
4	Portable Safety Exhaust Hood	1	160,000	160,000	1	160,000	160,000	1	250,000	250,000	1	450,000	450,000
5	Centrifuge Machine	0	149,336	-	0	149,336	-	0	250,000	-	0	325,000	-
6	Hot plates	2	26,250	52,500	2	26,250	52,500	2	45,000	90,000	2	55,000	110,000
7	Water bath	1	157,500	157,500	1	157,500	157,500	1	157,500	157,500	1	300,000	300,000
8	Complaint boxes	10	3,150	31,500	10	3,150	31,500	10	3,150	31,500	10	3,150	31,500
9	Spine boards with Neck holders	4	31,080	124,320	4	31,080	124,320	4	31,080	124,320	4	31,080	124,320
10	Sensitometer	1	137,325	137,325	1	137,325	137,325	1	137,325	137,325	1	137,325	137,325
11	Densitometer personal	2	191,391	382,782	2	191,391	382,782	2	191,391	382,782	2	191,391	382,782
12	Box of Films	2	26,250	52,500	2	26,250	52,500	2	30,000	60,000	2	30,000	60,000
13	Aluminium Step Wedge	1	26,250	26,250	1	26,250	26,250	1	26,250	26,250	1	26,250	26,250
14	Non-Mercury thermometer	10	305	3,045	10	305	3,045	10	350	3,500	10	750	7,500
15	Brass or copper mesh screen	2	5,250	10,500	2	5,250	10,500	2	5,250	10,500	2	5,250	10,500
16	Wheel Chairs	0	31,500	-	0	31,500	-	0	35,000	-	0	35,000	-
17	Statures	0	67,830	-	0	67,830	-	0	75,000	-	0	75,000	-
18	Blood Warmer	3	246,750	740,250	3	246,750	740,250	3	275,000	825,000	3	275,000	825,000
19	Sequence Compression Device	2	210,000	420,000	2	210,000	420,000	2	230,000	460,000	2	600,000	1,200,000
20	Blood Bank Refrigerators with	0	682,500	-	0	682,500	-	0	700,000	-	0	1,469,900	-
21	Data Coder	1	84,000	84,000	1	84,000	84,000	1	100,000	100,000	1	-	-
22	Plasma Separator 1	0	4,200,000	-	0	4,200,000	-	0	4,500,000	-	0	4,500,000	-
23	Blood Storage Cabinet	1	682,500	682,500	1	682,500	682,500	1	700,000	700,000	1	1,469,900	1,469,900
24	Resuscitation Trolley	0	244,733	-	0	244,733	-	0	400,000	-	0	491,350	-
25	Ultra sound machine gyne	0	1,403,325	-	0	1,403,325	-	0	1,700,000	-	0	2,150,000	-
26	Delivery Table	0	47,250	-	0	47,250	-	0	47,250	-	0	48,500	-
27	Height and weight scale	4	8,400	33,600	4	8,400	33,600	4	10,000	40,000	4	31,500	126,000
28	Suction Electronic	0	259,350	-	0	259,350	-	0	275,000	-	0	275,000	-
29	Fetal Heart Rate Detector	1	144,375	144,375	1	144,375	144,375	1	175,000	175,000	1	275,000	275,000
30	Ambo bag	0	17,325	-	0	17,325	-	0	19,000	-	0	19,000	-
31	Neonatal size face mask	4	578	2,310	4	578	2,310	4	1,200	4,800	4	1,500	6,000
32	Exchange transfusion trays	2	10,000	20,000	2	10,000	20,000	2	10,000	20,000	2	12,000	24,000
33	Shoe racks SS	4	39,900	159,600	4	39,900	159,600	4	39,900	159,600	4	39,900	159,600
34	Sterilizer	0	2,940,000	-	0	2,940,000	-	0	3,500,000	-	0	7,800,000	-
35	Washer disinfectant	0	-	-	0	-	-	0	-	-	0	-	-
36	Packing table	0	-	-	0	-	-	0	-	-	0	-	-
37	Digital Sealer Printer	1	420,000	420,000	1	420,000	420,000	1	480,000	480,000	1	520,000	520,000
38	Backup Auto Clave	0	441,000	-	0	441,000	-	0	550,000	-	0	789,625	-
39	Racks for Manual	10	21,000	210,000	10	21,000	210,000	10	37,500	375,000	10	56,160	561,600
40	Locked Racks for MSDS Data	2	21,000	42,000	2	21,000	42,000	2	37,500	75,000	2	56,160	112,320
41	Eye Wash Station with shower	3	300,000	900,000	3	300,000	900,000	3	350,000	1,050,000	3	350,000	1,050,000
42	Air Curtain	4	50,190	200,760	4	50,190	200,760	4	60,000	240,000	4	60,000	240,000
43	Fire Sand Buckets with stand	5	15,000	75,000	5	15,000	75,000	5	20,000	100,000	5	20,000	100,000
44	Smoke Detectors	10	7,350	73,500	10	7,350	73,500	10	8,500	85,000	10	8,500	85,000
45	Heat Detector	5	8,400	42,000	5	8,400	42,000	5	10,000	50,000	5	10,000	50,000
46	Gas Detector	5	6,300	31,500	5	6,300	31,500	5	7,500	37,500	5	7,500	37,500
47	Fire Blankets	10	2,783	27,825	10	2,783	27,825	10	3,200	32,000	10	3,200	32,000
48	Fire Alarms	10	5,250	52,500	10	5,250	52,500	10	6,500	65,000	10	6,500	65,000

MSDS

		Original			1st Revised			2nd Revised			3rd Revised		
Sr. No.	ITEM DESCRIPTION	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)	Quantity Required	Actual Unit Price	Actual Total Cost(Rs)
49	Identification Bands	100	3	315	100	3	315	100	3	300	100	3	300
50	Wet Flooring Signages	0	431	-	0	431	-	0	550	-	0	750	-
51	Key Box	6	8,190	49,140	6	8,190	49,140	6	10,000	60,000	6	10,000	60,000
52	Dehumidifier	0	58,800	-	0	58,800	-	0	70,000	-	0	100,000	-
53	Tourniquet	4	840	3,360	4	840	3,360	4	850	3,400	4	1,500	6,000
54	LAB SAFETY BOX	2	3,150	6,300	2	3,150	6,300	2	4,000	8,000	2	4,000	8,000
55	densitometer	0	210,000	-	0	210,000	-	0	210,000	-	0	210,000	-
56	vending machine	0	630,000	-	0	630,000	-	0	630,000	-	0	630,000	-
57	Automatic shoe cover machine	2	296,100	592,200	2	296,100	592,200	2	332,500	665,000	2	332,500	665,000
58	Vein Finder	2	630,000	1,260,000	2	630,000	1,260,000	2	630,000	1,260,000	2	630,000	1,260,000
59	Blood Sample Vials (BOXES)	3	13	38	3	13	38	3	15	45	3	15	45
60	Bassinets	5	21,000	105,000	5	21,000	105,000	5	22,000	110,000	5	22,000	110,000
61	Chemical Spill Cleanup kit	2	100,000	200,000	2	100,000	200,000	2	100,000	200,000	2	100,000	200,000
62	Digital Temperature Humidity Guage	4	15,000	60,000	4	15,000	60,000	4	15,000	60,000	4	15,000	60,000
63	Bio Cleaning and Disinfection System	1	650,000	650,000	1	650,000	650,000	1	650,000	650,000	1	2,200,000	2,200,000
	Total			8,647,094			8,647,094			9,653,822			13,437,942
				8.647			8.647			9.654			13.438

Medical Equipment

Sr. No.	Area	Name of Equipment	Yard Stick	Original				1st Revised				2nd Revised				3rd Revised			
				Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost
1	Laboratory	Semi Auto Clinical Chemistry Analyzer	1	0	1	449,295	449,295	0	1	449,295	449,295	0	1	550,000	550,000	0	1	550,000	550,000
2		Hematology Analyzer	1	0	1	427,350	427,350	0	1	427,350	427,350	0	1	550,000	550,000	0	1	750,000	750,000
3		Electrolyte Analyzer	1	0	1	427,350	427,350	0	1	427,350	427,350	0	1	550,000	550,000	0	1	550,000	550,000
4		Blood Gas Analyzer	0	0	0	2,744,858	-	0	0	2,744,858	-	0	0	3,200,000	-	0	0	1,400,000	-
5		Clinical Microscope	1	3	0	132,825	-	3	0	132,825	-	3	0	180,000	-	3	0	250,000	-
6		Water Bath	1	0	1	60,000	60,000	0	1	60,000	60,000	0	1	157,500	157,500	0	1	325,000	325,000
7		Hot air Oven	1	0	1	210,000	210,000	0	1	210,000	210,000	0	1	385,000	385,000	0	1	450,000	450,000
8		Distilled water plant	1	0	1	52,500	52,500	0	1	52,500	52,500	0	1	75,000	75,000	0	1	125,000	125,000
9		Auto pipettes	10	0	10	31,500	315,000	0	10	31,500	315,000	0	10	40,500	405,000	0	10	45,000	450,000
10		glass wares	0	200	0	105,000	-	200	0	105,000	-	200	0	105,000	-	200	0	105,000	-
11		Centrifuge Machine	2	1	1	149,336	149,336	1	1	149,336	149,336	1	1	250,000	250,000	1	1	400,000	400,000
12	X-Rays	Static X-ray Machine	1	1	0	4,200,000	-	1	0	4,200,000	-	1	0	6,000,000	-	1	0	12,000,000	-
13		Mobile X-Ray Machine	0	0	0	3,850,524	-	0	0	3,850,524	-	0	0	4,300,000	-	0	0	9,800,000	-
14		Computerized Radiography System	0	0	0	4,018,245	-	0	0	4,018,245	-	0	0	4,500,000	-	0	0	4,500,000	-
15		Dental X-Ray	0	1	0	282,975	-	1	0	282,975	-	1	0	350,000	-	1	0	525,000	-
16		Lead apron and PPE	2	0	2	52,500	105,000	0	2	52,500	105,000	0	2	60,000	120,000	0	2	85,000	170,000
17		Density meter personal (Add)	0	0	0	210,000	-	0	0	210,000	-	0	0	210,000	-	0	0	250,000	-
18		Lead glass /shield	0	0	0	105,000	-	0	0	105,000	-	0	0	105,000	-	0	0	150,000	-
19		Lead Walls	0	1	0	525,000	-	1	0	525,000	-	1	0	525,000	-	1	0	525,000	-
20	Ultrasound	Portable/Mobile Ultrasound	0	1	0	1,371,331	-	1	0	1,371,331	-	1	0	1,500,000	-	1	0	2,400,000	-
21		Color Doppler RADIOLOGY	1	1	0	3,698,310	-	1	0	3,698,310	-	1	0	4,500,000	-	1	0	5,500,000	-
22	CCU	ICU MONITOR	2	0	2	301,665	603,330	0	2	301,665	603,330	0	2	900,000	1,800,000	0	2	1,250,000	2,500,000
23		Temporary pace maker	0	0	0	315,000	-	0	0	315,000	-	0	0	315,000	-	0	0	550,000	-
24		Defibrillator	1	0	1	299,153	299,153	0	1	299,153	299,153	0	1	650,000	650,000	0	1	800,000	800,000
25		ECG Machine Three Channel	2	2	0	169,785	-	2	0	169,785	-	2	0	169,785	-	2	0	300,000	-
26		ETT Machine	0	0	0	2,021,838	-	0	0	2,021,838	-	0	0	2,200,000	-	0	0	3,000,000	-
27		Color doplor CARDIOLOGY	0	0	0	4,681,790	-	0	0	4,681,790	-	0	0	4,800,000	-	0	0	6,000,000	-
28		Suction Pump	2	1	1	259,350	259,350	1	1	259,350	259,350	1	1	275,000	275,000	1	1	300,000	300,000
29	Blood Bank	Blood Cabinet	1	0	1	690,539	690,539	0	1	690,539	690,539	0	1	700,000	700,000	0	1	1,500,000	1,500,000
30		Centrifuge Machine	2	0	2	149,336	298,673	0	2	149,336	298,673	0	2	250,000	500,000	0	2	400,000	800,000
31		Slide viewer	1	0	1	42,000	42,000	0	1	42,000	42,000	0	1	55,000	55,000	0	1	55,000	55,000
32		Clinical Microscope	1	0	1	132,825	132,825	0	1	132,825	132,825	0	1	180,000	180,000	0	1	250,000	250,000
33	Dialysis Unit (10 beds)	Computerized Hemo Dialysis Machine	5	0	5	1,050,000	5,250,000	0	5	1,050,000	5,250,000	0	5	1,600,000	8,000,000	0	5	3,200,000	16,000,000
34	Nursery	Baby Cot	10	2	8	14,669	117,348	2	8	14,669	117,348	2	8	16,000	128,000	2	8	16,000	128,000
35		Phototherapy Unit	2	0	2	130,200	260,400	0	2	130,200	260,400	0	2	655,000	1,310,000	0	2	850,000	1,700,000
36		Infant Warmer	2	2	0	335,638	-	2	0	335,638	-	2	0	985,000	-	2	0	1,050,000	-
37		Pulse Oximeter	6	1	5	104,500	522,500	1	5	104,500	522,500	1	5	160,000	800,000	1	5	225,000	1,125,000
38		Infant Incubator	2	1	1	858,932	858,932	1	1	858,932	858,932	1	1	900,000	900,000	1	1	1,750,000	1,750,000
39		Suction Pump	1		1	259,350	259,350		1	259,350	259,350		1	275,000	275,000		1	300,000	300,000
40		Hospital Grade Nebulizer Heavy Duty	2	4	0	125,265	-	4	0	125,265	-	4	0	215,000	-	4	0	300,000	-
41	O.T (04)	Anesthesia Machine with Ventilator	1	0	1	2,509,554	2,509,554	0	1	2,509,554	2,509,554	0	1	3,000,000	3,000,000	0	1	7,000,000	7,000,000
42		BED SIDE PATIENT MONITOR	2	0	2	441,000	882,000	0	2	441,000	882,000	0	2	550,000	1,100,000	0	2	1,200,000	2,400,000
43		Defibrillator	2	0	2	308,713	617,425	0	2	308,713	617,425	0	2	650,000	1,300,000	0	2	800,000	1,600,000
44		Electrosurgical Unit	1	0	1	507,530	507,530	0	1	507,530	507,530	0	1	700,000	700,000	0	1	900,000	900,000
45		Operation Table	1	2	0	1,426,215	-	2	0	1,426,215	-	2	0	2,000,000	-	2	0	2,500,000	-
46		Ceiling Operating Light	1	2	0	413,013	-	2	0	413,013	-	2	0	800,000	-	2	0	950,000	-
47		STEAM STERILIZER	1	1	0	3,465,000	-	1	0	3,465,000	-	1	0	4,000,000	-	1	0	7,800,000	-
48		Suction Pump	2		2	259,350	518,700		2	259,350	518,700		2	275,000	550,000		2	300,000	600,000
49		Resuscitation trolley With Crash Cart	2	1	1	244,733	244,733	1	1	244,733	244,733	1	1	400,000	400,000	1	1	600,000	600,000
50		mayo table	4	1	3	21,000	63,000	1	3	21,000	63,000	1	3	23,000	69,000	1	3	23,000	69,000
51		MOBILE OPERATING LIGHT	1	1	0	304,220	-	1	0	304,220	-	1	0	400,000	-	1	0	900,000	-
52	Orthopedic	Operation Table	0	0	0	1,426,215	-	0	0	1,426,215	-	0	0	2,000,000	-	0	0	5,000,000	-
53		ORTHOPEDIC DRILL	0	0	0	1,108,740	-	0	0	1,108,740	-	0	0	1,500,000	-	0	0	4,000,000	-
54		Plaster Cutting Pneumatic	1	0	1	276,250	276,250	0	1	276,250	276,250	0	1	450,000	450,000	0	1	1,500,000	1,500,000
55		Pneumatic Tourniquets	0	0	0	262,500	-	0	0	262,500	-	0	0	262,500	-	0	0	300,000	-

Medical Equipment

				Original				1st Revised				2nd Revised				3rd Revised			
Sr. No.	Area	Name of Equipment	Yard Stick	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost
56		Orthopedic Instruments	0	0	0	432,623	-	0	0	432,623	-	0	0	550,000	-	0	0	550,000	-
57		Portable/Mobile Ultrasound	1	1	0	1,418,958	-	1	0	1,418,958	-	1	0	1,500,000	-	1	0	2,400,000	-

Medical Equipment

Sr. No.	Area	Name of Equipment	Yard Stick	Original				1st Revised				2nd Revised				3rd Revised			
				Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost
58	Gynea (20 beds)	Autoclave	1	1	0	441,000	-	1	0	441,000	-	1	0	550,000	-	1	0	850,000	-
59		Delivery Set	10	2	8	31,500	252,000	2	8	31,500	252,000	2	8	40,000	320,000	2	8	65,000	520,000
60		Delivery Table	2	3	0	47,250	-	3	0	47,250	-	3	0	47,250	-	3	0	55,000	-
61		BED SIDE PATIENT MONITOR	2	0	2	294,000	588,000	0	2	294,000	588,000	0	2	550,000	1,100,000	0	2	1,200,000	2,400,000
62		D & C Set	2	1	1	34,650	34,650	1	1	34,650	34,650	1	1	40,000	40,000	1	1	60,000	60,000
63		Vacume Extractor	1	1	0	259,350	-	1	0	259,350	-	1	0	300,000	-	1	0	350,000	-
64		CTG Machine	1	0	1	628,049	628,049	0	1	628,049	628,049	0	1	725,000	725,000	0	1	900,000	900,000
65		ECG Machine Three Channel	1	0	1	169,785	169,785	0	1	169,785	169,785	0	1	180,000	180,000	0	1	300,000	300,000
66		Portable O.T Light	2	2	0	304,220	-	2	0	304,220	-	2	0	400,000	-	2	0	900,000	-
67		Baby Cot	2	2	0	14,669	-	2	0	14,669	-	2	0	16,000	-	2	0	16,000	-
68	Surgical Emergency (10 beds)	Delivery trolley	2	3	0	47,250	-	3	0	47,250	-	3	0	47,250	-	3	0	47,250	-
69		Desktop Fetal Heart Rate Detector	1	1	0	144,375	-	1	0	144,375	-	1	0	175,000	-	1	0	200,000	-
70		Steam Sterilizer	0	0	0	3,355,849	-	0	0	3,355,849	-	0	0	4,000,000	-	0	0	7,800,000	-
71		Operation Table	0	2	0	1,426,215	-	2	0	1,426,215	-	2	0	2,000,000	-	2	0	2,500,000	-
72		MOBILE OPERATING LIGHT	0	3	0	285,466	-	3	0	285,466	-	3	0	400,000	-	3	0	900,000	-
73		Suction Pump	0	1	0	259,350	-	1	0	259,350	-	1	0	275,000	-	1	0	300,000	-
74		Laryngoscope	0	2	0	9,744	-	2	0	9,744	-	2	0	12,000	-	2	0	20,000	-
75		Set of Surgical Instruments	0	3	0	141,750	-	3	0	141,750	-	3	0	160,000	-	3	0	220,000	-
76		Stretcher	10	0	10	68,250	682,500	0	10	68,250	682,500	0	10	69,300	693,000	0	10	69,300	693,000
77		wheel chair	10	0	10	31,500	315,000	0	10	31,500	315,000	0	10	35,000	350,000	0	10	35,000	350,000
78	Others	foot support	6	0	6	4,200	25,200	0	6	4,200	25,200	0	6	4,500	27,000	0	6	5,148	30,888
79		Resuscitation trolley With Crash Cart	5	1	4	237,618	950,473	1	4	237,618	950,473	1	4	400,000	1,600,000	1	4	600,000	2,400,000
80		BP Apparatus	15	3	12	15,750	189,000	3	12	15,750	189,000	3	12	16,000	192,000	3	12	16,000	192,000
81		Ventilator	0	0	0	2,195,080	-	0	0	2,195,080	-	0	0	3,500,000	-	0	0	5,500,000	-
82		CPAP	1	0	1	1,098,510	1,098,510	0	1	1,098,510	1,098,510	0	1	2,100,000	2,100,000	0	1	2,800,000	2,800,000
83		X-RAY PROCESSOR	1	0	1	858,440	858,440	0	1	858,440	858,440	0	1	925,000	925,000	0	1	1,200,000	1,200,000
84		Hand wash Scrub Double Bay	2	0	2	94,500	189,000	0	2	94,500	189,000	0	2	100,000	200,000	0	2	140,000	280,000
85		Image Intensifier	0	0	0	4,667,460	-	0	0	4,667,460	-	0	0	4,667,460	-	0	0	12,000,000	-
86		Central Medical Gass Pipe Line System	7	0	7	850,000	5,950,000	0	7	850,000	5,950,000	0	7	-	-	0	7	-	-
87		Motorized Patient bed with bed side,Mattress,IV stand, Attendant Bench	4	0	4	210,000	840,000	0	4	210,000	840,000	0	4	400,000	1,600,000	0	4	600,000	2,400,000
88	ICU	Sphygmomanometer wall mtd	4	0	4	15,750	63,000	0	4	15,750	63,000	0	4	30,000	120,000	0	4	35,000	140,000
89		Resuscitation trolley With Crash Cart	2	0	2	244,733	489,466	0	2	244,733	489,466	0	2	400,000	800,000	0	2	600,000	1,200,000
90		Defibrillator	1	0	1	299,153	299,153	0	1	299,153	299,153	0	1	650,000	650,000	0	1	800,000	800,000
91		Defibrillator with Monitor	0	0	0	330,750	-	0	0	330,750	-	0	0	650,000	-	0	0	800,000	-
92		ECG Machine Three Channel	0	0	0	169,785	-	0	0	169,785	-	0	0	180,000	-	0	0	300,000	-
93		Syringe pump	1	0	1	108,780	108,780	0	1	108,780	108,780	0	1	125,000	125,000	0	1	200,000	200,000
94		Suction Pump	0	0	0	259,350	-	0	0	259,350	-	0	0	275,000	-	0	0	300,000	-
95		ICU Monitor	0	0	0	298,200	-	0	0	298,200	-	0	0	900,000	-	0	0	1,250,000	-
96		Instrument Trolley	1	0	1	55,000	55,000	0	1	55,000	55,000	0	1	55,000	55,000	0	1	55,000	55,000
97		Ward instruments	0	0	0	-	-	0	0	-	-	0	0	-	-	0	0	-	-
98		Ventilator intensive care	2	0	2	1,600,000	3,200,000	0	2	1,600,000	3,200,000	0	2	3,500,000	7,000,000	0	2	5,500,000	11,000,000
99		CPAP with humidifier	0	0	0	1,098,510	-	0	0	1,098,510	-	0	0	2,100,000	-	0	0	2,800,000	-
100		DELIVERY TROLLEY STAINLESS STEEL	1	0	1	23,835	23,835	0	1	23,835	23,835	0	1	47,250	47,250	0	1	47,250	47,250
101		Ambu-Bag, adult	4	0	4	17,325	69,300	0	4	17,325	69,300	0	4	19,000	76,000	0	4	19,000	76,000
102		Ambu-Bag, paed	4	0	4	17,325	69,300	0	4	17,325	69,300	0	4	19,000	76,000	0	4	19,000	76,000
103	MORTUERY	TWO BODY REFRIGERATOR WITH CASTERS 220v 50Hz Along with Atopsy Table & Lifter Trolley	1	0	1	2,470,546	2,470,546	0	1	2,470,546	2,470,546	0	1	3,000,000	3,000,000	0	1	3,500,000	3,500,000
104		Dental Unit	2	0	2	2,190,000	4,380,000	0	2	2,190,000	4,380,000	0	2	2,820,000	5,640,000	0	2	2,820,000	5,640,000
105		Autoclave	1	0	1	441,000	441,000	0	1	441,000	441,000	0	1	550,000	550,000	0	1	850,000	850,000
106		Dental X-RAY Machine	1	0	1	282,975	282,975	0	1	282,975	282,975	0	1	350,000	350,000	0	1	525,000	525,000
107		Digital Intra Oral Camera	0	0	0	94,500	-	0	0	94,500	-	0	0	150,000	-	0	0	600,000	-
108		DENTAL CAUTERY	0	0	0	84,000	-	0	0	84,000	-	0	0	160,000	-	0	0	900,000	-
109		Ultrasonic scaling	1	0	1	120,750	120,750	0	1	120,750	120,750	0	1	175,000	175,000	0	1	300,000	300,000
110		Curing lights	1	0	1	52,500	52,500	0	1	52,500	52,500	0	1	95,000	95,000	0	1	150,000	150,000
111		Endo motor system	1	0	1	199,601	199,601	0	1	199,601	199,601	0	1	265,000	265,000	0	1	500,000	500,000

Medical Equipment

		Original						1st Revised				2nd Revised				3rd Revised			
Sr. No.	Area	Name of Equipment	Yard Stick	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost	Available Quantity	Required Quantity	Cost per Unit	Total Cost
112		Dental cabinet	0	0	0	42,000	-	0	0	42,000	-	0	0	70,000	-	0	0	160,000	-
113		Dental examination/surgical instrument sets	4	0	4	157,500	630,000	0	4	157,500	630,000	0	4	175,000	700,000	0	4	175,000	700,000
114	Beds	Fowler beds with Mattress	40	0	40	70,000	2,800,000	0	40	70,000	2,800,000	0	40	110,000	4,400,000	0	40	150,000	6,000,000
		Total					45,935,236				45,935,236				60,360,750				91,932,138
							45.935				45.935				60.361				91.932

Electricity

Sr. No.	Item Name	Original			1st Revised			2nd Revised			3rd Revised		
		Quantity	Per Unit Cost	Total Cost	Quantity	Per Unit Cost	Total Cost	Quantity	Per Unit Cost	Total Cost	Quantity	Per Unit Cost	Total Cost
1	Transformers (200 KVA)	1	600,000	600,000	1	600,000	600,000	1	1,200,000	1,200,000	2	1,600,000	3,200,000
2	Transformers (100 KVA)	0	450,000	-	0	450,000	-	0	450,000	-	0	450,000	-
3	Transformers (50 KVA)	0	300,000	-	0	300,000	-	0	300,000	-	0	300,000	-
4	Generator (200 KVA)	1	4,000,000	4,000,000	1	4,000,000	4,000,000	1	4,000,000	4,000,000	1	4,000,000	4,000,000
5	Generator (100 KVA)	0	2,300,000	-	0	2,300,000	-	0	2,300,000	-	0	2,300,000	-
6	2 Ton air conditioners (split)	16	55,500	888,000	16	55,500	888,000	16	55,500	888,000	16	139,150	2,226,400
7	2 Ton air conditioners (Cabinet)	25	78,000	1,950,000	25	78,000	1,950,000	25	78,000	1,950,000	25	187,200	4,680,000
8	4 Ton air conditioners (Cabinet)	5	120,000	600,000	5	120,000	600,000	5	120,000	600,000	5	353,899	1,769,495
9	Ceiling Fans 56"	50	3,090	154,500	50	3,090	154,500	50	3,090	154,500	50	6,975	348,750
10	Exhaust Fans	36	3,000	108,000	36	3,000	108,000	36	3,000	108,000	36	3,000	108,000
11	Bracket Fans 18"	24	3,280	78,720	24	3,280	78,720	24	3,280	78,720	24	6,600	158,400
12	Dual Connection of Electricity / Express Line	1	5,000,000	5,000,000	1	5,000,000	5,000,000	1	7,000,000	7,000,000	1	11,000,000	11,000,000
Total				13,379,220			13,379,220			15,979,220			27,491,045
				13.379			13.379			15.979			27.491

IT & QMS & Surveillance

Sr. No.	Item Name	Original			1st Revised			2nd Revised			3rd Revised		
		Quantity	Per Unit Cost	Total Cost	Quantity	Per Unit Cost	Total Cost	Quantity	Per Unit Cost	Total Cost	Quantity	Per Unit Cost	Total Cost
1	Desktop, UPS, LED	30	75,000	2,250,000	30	75,000	2,250,000	30	130,000	3,900,000	30	216,000	6,480,000
2	MS Windows License	30	20,000	600,000	30	20,000	600,000	30	20,000	600,000	30	20,000	600,000
3	Scanner Flatbed with ADF	3	90,000	270,000	3	90,000	270,000	3	150,000	450,000	3	150,000	450,000
4	Heavy duty Printer	7	40,000	280,000	7	40,000	280,000	7	50,000	350,000	7	110,000	770,000
5	Multimedia Projector with Screen	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000
6	Tabs	4	50,000	200,000	4	50,000	200,000	4	50,000	200,000	4	50,000	200,000
7	Laptop	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000
8	MS Windows License	1	20,000	20,000	1	20,000	20,000	1	20,000	20,000	1	20,000	20,000
9	QMS System	1	3,700,000	3,700,000	1	3,700,000	3,700,000	1	4,000,000	4,000,000	1	4,000,000	4,000,000
10	Networking	1	995,000	995,000	1	995,000	995,000	1	995,000	995,000	1	1,200,000	1,200,000
11	Monitoring & Surveillance (CCTV)	1	5,000,000	5,000,000	1	5,000,000	5,000,000	1	5,000,000	5,000,000	1	5,000,000	5,000,000
12	Public Address System	1	1,000,000	1,000,000	1	1,000,000	1,000,000	1	1,000,000	1,000,000	1	1,200,000	1,200,000
	Total			14,515,000			14,515,000			16,715,000			20,120,000
				14.515			14.515			16.715			20.120

Furniture and Fixtures

Sr. No.	Item Name	Original			1st Revised			2nd Revised			3rd Revised		
		Quantity	Unit Price	Total	Quantity	Unit Price	Total	Quantity	Unit Price	Total	Quantity	Unit Price	Total
1	Benches (internal)	60	30,000	1,800,000	60	30,000	1,800,000	60	30,000	1,800,000	60	40000	2,400,000
2	Benches (external)	10	10,000	100,000	10	10,000	100,000	10	10,000	100,000	10	40000	400,000
3	Electric Water Cooler	8	45,000	360,000	8	45,000	360,000	8	45,000	360,000	8	60000	480,000
4	Doctors rooms Furniture	30	70,000	2,100,000	30	70,000	2,100,000	30	70,000	2,100,000	30	125000	3,750,000
5	Examination couches	10	35,000	350,000	10	35,000	350,000	10	35,000	350,000	10	35000	350,000
6	Fire Blanket	5	2,500	12,500	5	2,500	12,500	5	2,500	12,500	5	3000	15,000
7	Fire Extinguisher (Water Based)	30	8,000	240,000	30	8,000	240,000	30	8,000	240,000	30	2500	75,000
8	Acrylic Board	150	2,200	330,000	150	2,200	330,000	150	2,200	330,000	150	2000	300,000
9	Rostrum	2	18,000	36,000	2	18,000	36,000	2	18,000	36,000	2	20000	40,000
10	Blinds for windows	6000	150	900,000	6000	150	900,000	6000	150	900,000	6000	200	1,200,000
11	Paintings	100	6,000	600,000	100	6,000	600,000	100	6,000	600,000	100	5000	500,000
12	Waste Bin Sets (3 bin)	40	6,000	240,000	40	6,000	240,000	40	6,000	240,000	40	9000	360,000
13	Printing			1,000,000			1,000,000			1,000,000			1,000,000
	Machinery and Equipment's												
14	Refrigerator(Domestic) front glass double door	2	160,000	320,000	2	160,000	320,000	2	160,000	320,000	2	150000	300,000
15	Refrigerator glass single door	5	80,000	400,000	5	80,000	400,000	5	80,000	400,000	5	90000	450,000
16	Refrigerator 16 cft	5	36,000	180,000	5	36,000	180,000	5	36,000	180,000	5	50000	250,000
17	Air Curtain On Door	5	50,000	250,000	5	50,000	250,000	5	50,000	250,000	5	75000	375,000
18	Washing machines for pantries	3	13,000	39,000	3	13,000	39,000	3	13,000	39,000	3	11000	33,000
19	Gas Burner for pantries	10	4,800	48,000	10	4,800	48,000	10	4,800	48,000	10	80000	800,000
20	Fire Extinguishers DCP	30	4,800	144,000	30	4,800	144,000	30	4,800	144,000	30	6500	195,000
21	LED TV	15	55,000	825,000	15	55,000	825,000	15	55,000	825,000	15	140000	2,100,000
22	Industrial Exhaust	5	50,000	250,000	5	50,000	250,000	5	50,000	250,000	5	60000	300,000
23	Acrylic Display Board	4	20,000	80,000	4	20,000	80,000	4	20,000	80,000	4	20000	80,000
	Laundry & Washing												
24	Bed Sheets and pillow covers	300	1,250	375,000	300	1,250	375,000	300	1,250	375,000	300	2500	750,000
25	Pillows	150	400	60,000	150	400	60,000	150	400	60,000	150	500	75,000
26	Blankets with covers	100	5,000	500,000	100	5,000	500,000	100	5,000	500,000	100	4000	400,000
	Medicine Store												
27	Medicine (Iron Racks) 8x6x2 (Required)	20	50,000	1,000,000	20	50,000	1,000,000	20	50,000	1,000,000	20	60000	1,200,000
28	Moveable Iron Stairs (Required)	2	15,000	30,000	2	15,000	30,000	2	15,000	30,000	2	20000	40,000
29	Lifters (Required)	2	37,000	74,000	2	37,000	74,000	2	37,000	74,000	2	35000	70,000
30	Pallets 3x4 (Plastic) (Required)	20	12,000	240,000	20	12,000	240,000	20	12,000	240,000	20	10000	200,000
31	Dehumidifier (Required)	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000	1	125000	125,000
32	Insect Killer (Required)	25	8,000	200,000	25	8,000	200,000	25	8,000	200,000	25	6500	162,500
33	Thermometer (Required)	20	16,000	320,000	20	16,000	320,000	20	16,000	320,000	20	600	12,000
	Total			13,503,500			13,503,500			13,503,500			18,787,500
				13.504			13.504			13.504			18.788

Signage and plaques

Sr No	Type	Kinds of Sign Boards	Original			1st Revised			2nd Revised			3rd Revised		
			Quantity	Rates	Cost	Quantity	Rates	Cost	Quantity	Rates	Cost	Quantity	Rates	Cost
		External Sign Boards												
1	A1	External Platform/Road Signage (Circular)	6	10,221	61,326	6	10,221	61,326	6	13,951	83,706	6	13,951	83,706
2	A2	External Platform/Road Signage (Triangular)	6	9,350	56,100	6	9,350	56,100	6	12,762	76,574	6	12,762	76,574
3	B1	Main Directional Board	1	113,632	113,632	1	113,632	113,632	1	155,107	155,107	1	155,107	155,107
4	C1	Directional Board (Single Sheet)	10	14,600	146,000	10	14,600	146,000	10	19,929	199,290	10	19,929	199,290
5	C2	Directional Board (Two Sheets)	1	22,722	22,722	1	22,722	22,722	1	31,016	31,016	1	31,016	31,016
6	C3	Directional Board (Three Sheets)	1	30,463	30,463	1	30,463	30,463	1	41,581	41,581	1	41,581	41,581
7	C4	Directional Board (Four Sheets)	1	37,619	37,619	1	37,619	37,619	1	51,351	51,351	1	51,351	51,351
8	C5	Directional Board (Five Sheets)	1	45,685	45,685	1	45,685	45,685	1	62,360	62,360	1	62,360	62,360
9	C6	Directional Board (Six Sheets)	1	53,341	53,341	1	53,341	53,341	1	72,810	72,810	1	72,810	72,810
10	C7	Additional Panel (For Fixation on existing Foundation & Posts)	3	8,024	24,072	3	8,024	24,072	3	10,952	32,857	3	10,952	32,857
11	D1	Departmental Signage on Building	6	47,683	286,098	6	47,683	286,098	6	65,087	390,524	6	65,087	390,524
12	E1	External Map Boards	2	41,603	83,206	2	41,603	83,206	2	56,788	113,576	2	56,788	113,576
		Internal Signage	0		-	0		-	0		-	0		-
1	F1	Internal Hanging Signage (Main Entrance)	5	90,791	453,955	5	90,791	453,955	5	125,294	626,472	5	125,294	626,472
2	F2	Internal Hanging Signage (Main Entrance 2)	5	69,887	349,435	5	69,887	349,435	5	95,396	476,980	5	95,396	476,980
3	F3	Internal Hanging Signage (Corridor)	4	51,759	207,036	4	51,759	207,036	4	70,651	282,604	4	70,651	282,604
4	F4	Internal Hanging Signage (Corridor 2)	4	52,359	209,436	4	52,359	209,436	4	71,470	285,880	4	71,470	285,880
5	G1	Internal Department Signage on wall	7	13,239	92,673	7	13,239	92,673	7	18,071	126,498	7	18,071	126,498
6	H1	Specialist Name Plaques fixed on wall	20	3,805	76,100	20	3,805	76,100	20	5,194	103,880	20	5,194	103,880
7	J1	Room Name Plaques and Numbers fixed on wall	100	875	87,500	100	875	87,500	100	1,194	119,420	100	1,194	119,420
8	K1	Internal Wall Signage	100	1,437	143,700	100	1,437	143,700	100	1,961	196,140	100	1,961	196,140
9	L1	Room Numbers Fixed on Wall	50	3,647	182,350	50	3,647	182,350	50	4,978	248,920	50	4,978	248,920
10	M1	Advance Fire Exit Sign	10	1,856	18,560	10	1,856	18,560	10	2,534	25,340	10	2,534	25,340
11	M2	Fire Exit Sign Mounted Above the Door	10	1,284	12,840	10	1,284	12,840	10	1,753	17,528	10	1,753	17,528
12	N1	Fire Safety/Equipment Signage	20	2,459	49,180	20	2,459	49,180	20	3,357	67,144	20	3,357	67,144
13	P1	Floor Map Board	5	21,301	106,505	5	21,301	106,505	5	29,075	145,376	5	29,075	145,376
14	Q1	Caution Signage	25	2,195	54,875	25	2,195	54,875	25	2,996	74,900	25	2,996	74,900
15	Q2	Caution Signage	5	660	3,300	5	660	3,300	5	902	4,508	5	902	4,508
16	Q3	Caution Signage	10	1,155	11,550	10	1,155	11,550	10	1,576	15,764	10	1,576	15,764
17	Q4	Caution Signage	15	897	13,455	15	897	13,455	15	1,225	18,375	15	1,225	18,375
		Total			3,032,714			3,032,714			4,146,482			4,146,482
		Designing and Site Supervision			90,981			90,981			124,394			124,394
		Grand Total			3,123,695			3,123,695			4,270,877			4,270,877
					3.124			3.124			4.271			4.271

DAY CARE CENTER													
Yard Stick as per Women Development Department													
		Original			1st Revised			2nd Revised			3rd Revised		
Sr. No.	ITEMS	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total
1	Cylinder Block	1	3,000	3,000	1	3,000	3,000	1	3,000	3,000	1	3,000	3,000
2	Geometrical Cabinet (36 pcs)	1	4,000	4,000	1	4,000	4,000	1	4,000	4,000	1	4,000	4,000
3	Geometrical Solids (10 pcs)	1	2,200	2,200	1	2,200	2,200	1	2,200	2,200	1	2,200	2,200
4	Base for Geometrical Solids (14 pcs)	1	2,000	2,000	1	2,000	2,000	1	2,000	2,000	1	2,000	2,000
5	Constructive Triangles (4 box)	1	400	400	1	400	400	1	400	400	1	400	400
6	Metal Insets (10 - shape)	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000
7	Stand for metal insets	1	2,000	2,000	1	2,000	2,000	1	2,000	2,000	1	2,000	2,000
8	Paper Board for metal insets (10 Boards)	1	5,000	5,000	1	5,000	5,000	1	5,000	5,000	1	5,000	5,000
9	Sandpaper Alphabets (English)	3	2,000	6,000	3	2,000	6,000	3	2,000	6,000	3	2,000	6,000
10	Sandpaper Alphabets (Urdu)	3	3,500	10,500	3	3,500	10,500	3	3,500	10,500	3	3,500	10,500
11	Sandpaper Number	3	2,000	6,000	3	2,000	6,000	3	2,000	6,000	3	2,000	6,000
12	Hammer Case	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000
13	Soft Reading Book	15	200	3,000	15	200	3,000	15	200	3,000	15	200	3,000
14	Shape Sorting Case	2	500	1,000	2	500	1,000	2	500	1,000	2	500	1,000
15	Transport Set (Model)	2	700	1,400	2	700	1,400	2	700	1,400	2	700	1,400
16	Model Puzzles (S)	7	300	2,100	7	300	2,100	7	300	2,100	7	300	2,100
17	Model Puzzles (B)	7	500	3,500	7	500	3,500	7	500	3,500	7	500	3,500
18	Storybook	20	100	2,000	20	100	2,000	20	100	2,000	20	100	2,000
19	Information Book (Large)	20	350	7,000	20	350	7,000	20	350	7,000	20	350	7,000
20	Basket (L)	10	1,000	10,000	10	1,000	10,000	10	1,000	10,000	10	1,000	10,000
21	Basket (S)	10	600	6,000	10	600	6,000	10	600	6,000	10	600	6,000
22	Color table Box	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000
23	ABC Block	4	500	2,000	4	500	2,000	4	500	2,000	4	500	2,000
24	Number Block	4	500	2,000	4	500	2,000	4	500	2,000	4	500	2,000
25	Color Pensils (Large)	5	450	2,250	5	450	2,250	5	450	2,250	5	450	2,250
26	Color Crayons (Large)	5	300	1,500	5	300	1,500	5	300	1,500	5	300	1,500
27	Marker Color (Board and Permanent)	15	395	5,925	15	395	5,925	15	395	5,925	15	395	5,925
28	Fruits Basket (Model Set)	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000
29	Vegetables Basket (Model Set)	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000	2	1,000	2,000
30	Animal Sets	2	600	1,200	2	600	1,200	2	600	1,200	2	600	1,200
31	Insects sets	2	400	800	2	400	800	2	400	800	2	400	800
32	Shape Sorting House	2	1,500	3,000	2	1,500	3,000	2	1,500	3,000	2	1,500	3,000
33	Flash card (Small)	10	120	1,200	10	120	1,200	10	120	1,200	10	120	1,200
34	Flash card (Big)	10	325	3,250	10	325	3,250	10	325	3,250	10	325	3,250
35	Sand Play	2	1,000	4,000	2	1,000	4,000	2	1,000	4,000	2	1,000	4,000
36	Gym Play	2	2,000	3,000	2	2,000	3,000	2	2,000	3,000	2	2,000	3,000
37	Straight Mats	20	1,500	40,000	20	1,500	40,000	20	1,500	40,000	20	1,500	40,000
38	Folding Mats	20	2,000	6,000	20	2,000	6,000	20	2,000	6,000	20	2,000	6,000
39	Diaper Changing Mats	3	300	1,500	3	300	1,500	3	300	1,500	3	300	1,500
40	Cube Cushion	2	500	1,000	2	500	1,000	2	500	1,000	2	500	1,000
41	Square Cushion	2	500	600	2	500	600	2	500	600	2	500	600
42	Baby Mirror	3	300	2,400	3	300	2,400	3	300	2,400	3	300	2,400
43	Pink Tower With Stand	1	800	500	1	800	500	1	800	500	1	800	500
44	Dressing Frames	10	500	8,000	10	500	8,000	10	500	8,000	10	500	8,000
45	Monkey Stuffed	2	800	2,400	2	800	2,400	2	800	2,400	2	800	2,400
46	Lion Stuffed	2	1,200	3,400	2	1,200	3,400	2	1,200	3,400	2	1,200	3,400
47	Cater Pillar Stuffed	2	1,700	3,000	2	1,700	3,000	2	1,700	3,000	2	1,700	3,000
48	Stuffed toys (Animal shaped i.e. Moneky, lion, caterpillar etc)	6	1,500	9,000	6	1,500	9,000	6	1,500	9,000	6	1,500	9,000

DAY CARE CENTER													
Yard Stick as per Women Development Department													
		Original			1st Revised			2nd Revised			3rd Revised		
Sr. No.	ITEMS	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total
49	Long Roads with Stands	1	1,500	1,500	1	1,500	1,500	1	1,500	1,500	1	1,500	1,500
50	Number Rods	1	500	500	1	500	500	1	500	500	1	500	500
51	Stand Number Rods	1	800	800	1	800	800	1	800	800	1	800	800
52	Soft toys	2	700	1,400	2	700	1,400	2	700	1,400	2	700	1,400
53	Infants Manual Weight Machine	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000
54	Toddlers Manual Weight Machine	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000
55	Tri Cycles	4	3,500	14,000	4	3,500	14,000	4	3,500	14,000	4	3,500	14,000
56	Wooden Cots	10	10,000	100,000	10	10,000	100,000	10	10,000	100,000	10	10,000	100,000
57	Mattresses for Cots	10	1,200	12,000	10	1,200	12,000	10	1,200	12,000	10	1,200	12,000
58	Pillows	10	300	3,000	10	300	3,000	10	300	3,000	10	300	3,000
59	Bed Sheets and pillow covers	20	400	8,000	20	400	8,000	20	400	8,000	20	400	8,000
60	Nets	10	600	6,000	10	600	6,000	10	600	6,000	10	600	6,000
61	High Chairs for feeding	15	3,000	45,000	15	3,000	45,000	15	3,000	45,000	15	3,000	45,000
62	Rockers Cum Bouncer	8	2,500	20,000	8	2,500	20,000	8	2,500	20,000	8	2,500	20,000
63	Cot Mobile	10	1,500	15,000	10	1,500	15,000	10	1,500	15,000	10	1,500	15,000
64	Plastic Chairs (Round edges Animal Shapes)	7	600	4,200	7	600	4,200	7	600	4,200	7	600	4,200
65	Multi-Purpose Table	2	3,000	6,000	2	3,000	6,000	2	3,000	6,000	2	3,000	6,000
66	Writing Board	1	500	500	1	500	500	1	500	500	1	500	500
67	Electric Sterilizer	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000
68	Electric Warmer	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000
69	Table sets	2	4,000	8,000	2	4,000	8,000	2	4,000	8,000	2	4,000	8,000
70	Rocker	6	3,200	19,200	6	3,200	19,200	6	3,200	19,200	6	3,200	19,200
71	Activity Gym (Infants)	5	2,000	10,000	5	2,000	10,000	5	2,000	10,000	5	2,000	10,000
72	Play Gym	5	2,700	13,500	5	2,700	13,500	5	2,700	13,500	5	2,700	13,500
73	Activity Gym (Toddlers)	5	2,000	10,000	5	2,000	10,000	5	2,000	10,000	5	2,000	10,000
74	Toiler Training Seat	10	3,000	30,000	10	3,000	30,000	10	3,000	30,000	10	3,000	30,000
75	Infant Toys	30	4,000	120,000	30	4,000	120,000	30	4,000	120,000	30	4,000	120,000
76	Bath Toys	15	1,000	15,000	15	1,000	15,000	15	1,000	15,000	15	1,000	15,000
77	Fun Links Teether	15	300	4,500	15	300	4,500	15	300	4,500	15	300	4,500
78	Fun Pal Teether	15	500	7,500	15	500	7,500	15	500	7,500	15	500	7,500
79	Fun Rattle	15	400	6,000	15	400	6,000	15	400	6,000	15	400	6,000
80	Mother feeding Chair	1	3,000	3,000	1	3,000	3,000	1	3,000	3,000	1	3,000	3,000
81	Soft Books (duplication)	20	500	10,000	20	500	10,000	20	500	10,000	20	500	10,000
82	Bottle Brushes	3	300	900	3	300	900	3	300	900	3	300	900
List of others Items i.e. Kitchen, Office, Electric items				-			-			-			-
1	Water Dispenser	1	14,000	14,000	1	14,000	14,000	1	14,000	14,000	1	14,000	14,000
2	Microwave Oven	1	12,400	12,400	1	12,400	12,400	1	12,400	12,400	1	12,400	12,400
3	Fridge	1	34,000	34,000	1	34,000	34,000	1	34,000	34,000	1	34,000	34,000
4	Kitchen Accessories / Cutleries etc.	24	200	4,800	24	200	4,800	24	200	4,800	24	200	4,800
5	Sofa Set	1	40,000	40,000	1	40,000	40,000	1	40,000	40,000	1	40,000	40,000
6	Office Table	1	5,000	5,000	1	5,000	5,000	1	5,000	5,000	1	5,000	5,000
7	Office Chairs	5	10,000	50,000	5	10,000	50,000	5	10,000	50,000	5	10,000	50,000
8	Air Conditioner	2	42,000	84,000	2	42,000	84,000	2	42,000	84,000	2	42,000	84,000
9	LCD	1	27,000	27,000	1	27,000	27,000	1	27,000	27,000	1	27,000	27,000
10	DVD player	1	5,000	5,000	1	5,000	5,000	1	5,000	5,000	1	5,000	5,000
11	CCTV Cameras	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000
12	Fire Alarms	3	5,000	15,000	3	5,000	15,000	3	5,000	15,000	3	5,000	15,000
13	UPS	1	10,000	10,000	1	10,000	10,000	1	10,000	10,000	1	10,000	10,000
14	Vacuum Cleaner	1	7,000	7,000	1	7,000	7,000	1	7,000	7,000	1	7,000	7,000
15	Fire Extinguishers (Large)	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000
16	Electric Insect Killer	2	7,800	15,600	2	7,800	15,600	2	7,800	15,600	2	7,800	15,600

DAY CARE CENTER													
Yard Stick as per Women Dvelopment Department													
		Original			1st Revised			2nd Revised			3rd Revised		
Sr. No.	ITEMS	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total	Yard Stick (DCC of 25 Kids)	Unit Cost	Total
17	Electric Hand Dryer	1	4,000	4,000	1	4,000	4,000	1	4,000	4,000	1	4,000	4,000
18	Electric Heater	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000	2	5,000	10,000
19	Ceiling/bracket Fans	4	8,000	32,000	4	8,000	32,000	4	8,000	32,000	4	8,000	32,000
20	Curtains	2	45,000	90,000	2	45,000	90,000	2	45,000	90,000	2	45,000	90,000
21	Carpets	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000	1	100,000	100,000
22	Other miscellaneous items	1	218,675	218,675	1	218,675	218,675	1	218,675	218,675	1	218,675	218,675
	TOTAL			1,600,000			1,600,000			1,600,000			1,600,000
				1.600			1.600			1.600			1.600

Human Resource Model of THQ Hospital

		Original				1st Revised				2nd Revised				3rd Revised				
Sr. No.	NAME OF POST	No. of Employees	Per Month Salary	Per Month Salary for Person	Salary for One Year	No. of Employees	Per Month Salary	Per Month Salary for Person	Salary for One Year	No. of Employees	Per Month Salary	Per Month Salary for Person	Salary for Two Years	No. of Employees	Project Pay Scale	Per Month Salary	Per Month Salary for all Person	Salary for Two Years
1	ADMIN OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
2	HUMAN RESOURCE & LEGAL OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
3	IT/STATISTICAL OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
4	FINANCE, BUDGET & AUDIT OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
5	PROCUREMENT OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
6	QUALITY ASSURANCE OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
7	LOGISTICS OFFICER	1	60,000	60,000	720,000	1	60,000	60,000	720,000	1	80,000	80,000	1,920,000	1	6	105,000	105,000	3,255,000
8	DATA ENTRY OPERATOR (DEO)	2	25,000	50,000	600,000	2	25,000	50,000	600,000	2	35,000	70,000	1,680,000	2	3	44,000	88,000	2,728,000
9	ASSISTANT ADMIN OFFICER	2	40,000	80,000	960,000	2	40,000	80,000	960,000	2	50,000	100,000	2,400,000	2	5	70,000	140,000	4,340,000
10	HR FOR QMS and MSDS and Day Care Center																	
11	QMS Supervisor / Information Desk Officer	2	25,000	50,000	600,000	2	25,000	50,000	600,000	2	25,000	50,000	600,000	2		25,000	50,000	600,000
12	Computer Operator	8	20,000	160,000	1,920,000	8	20,000	160,000	1,920,000	8	20,000	160,000	1,920,000	8		20,000	160,000	1,920,000
13	Consultants (MSDS) Implementation & Clinical Audit	1	100,000	100,000	1,200,000	1	100,000	100,000	1,200,000	1	100,000	100,000	1,200,000	1		100,000	100,000	1,200,000
14	Training on MSDS Compliance for Staff of THQ Hospital	1000	4,000	4,000,000	4,000,000	1000	4,000	4,000,000	4,000,000	1000	4,000	4,000,000	4,000,000	1000		4,000	4,000,000	4,000,000
15	Rent for Vehicle				500,000				500,000				500,000				0	500,000
16	Manager Day Care Center	1	45,000	45,000	540,000	1	45,000	45,000	540,000	1	45,000	45,000	540,000	1		45,000	45,000	540,000
17	Montessori Trained Teacher	1	35,000	35,000	420,000	1	35,000	35,000	420,000	1	35,000	35,000	420,000	1		35,000	35,000	420,000
18	Attendant / Care Giver	4	25,000	100,000	1,200,000	4	25,000	100,000	1,200,000	4	25,000	100,000	1,200,000	4		25,000	100,000	1,200,000
19	Office Boy	1	20,000	20,000	240,000	1	20,000	20,000	240,000	1	20,000	20,000	240,000	1		20,000	20,000	240,000
	Sub Total of HR Model			4,860,000	17,220,000			4,860,000	17,220,000			5,040,000	28,140,000				5,273,000	40,473,000
					17.220				17.220				28.140					40.473
	Utilization of HR Component								7.120				10.31					
	Total of HR Component												35.26					50.781

Janitorial Services

		Original		From 1st Revised to onward
Assumptions				In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under: "It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY". In view of above, Outsourcing cost has been excluded from this PC-I.
Covered area excluding residential area	11,149	sft		
Covered area assigned to one sweeper	7,500	sft		
Number of sweepers required for covered area	1	Persons		
Road and ROW area	85,760	sft		
Road and ROW assigned to one sweeper	15,000	sft		
Number of sweepers required for road and ROW area	6	Persons		
Number of washroom blocks	6	blocks		
Number of washroom block assigned to one sweeper	3	Persons		
Number of sweepers required for total washroom blocks	2	Persons		
Total sweeper in morning shift	9	Persons		
Total number of sweepers in evening shift	5	Persons		
Total number of sweepers in night shift	5	Persons		
Total number of sweepers in all shifts	19	Persons		
Number of sewer men required	3	Persons		
Number of supervisors	3	Persons		
Salary component				
Type of worker	No of workers	Salary per month	Salary for One Year	
Sweepers / Janitors	19	22,000	5,008,890	
Sewer men	3	22,000	792,000	
Supervisors	3	26,000	936,000	
Cost of Supply per Month		400,000	4,800,000	
Sub Total (Salary component)			11,536,890	
11.537				

11.537

Security and Parking

		Original			From 1st Revised to onward
Assumptions					<p>In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under:</p> <p>"It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</p> <p>In view of above, Outsourcing cost has been excluded from this PC-I.</p>
Covered area excluding residences	11,149				
Covered Area per guard	15,000				
Number of guards	1				
Open area excluding parking area	85,760				
Area covered per guard per shift for open area excluding parking	15,000				
Number of guards for total area excluding parking area	6				
Number of gates	3				
Number of guards at gates	6				
Total No of Guard	12				
Total number of all guards for second shift	6				
Lady Searcher	2				
Number of parking areas	1				
Number of guards for parking lot per shift (Morning+ Evening)	2				
Total no. of Supervisors	2				
Type of worker	No of workers	Salary per month	Salary per Month for all Person	Salary for One year	
Supervisors	2	24,675	49,350	592,200	
Ex-Army	7	21,525	150,675	1,808,100	
Civilian	10	21,000	210,000	2,520,000	
Lady Searcher	2	21,525	43,050	516,600	
Parking	2	21,525	43,050	516,600	
Sub total				5,953,500	
Equipment cost					
Lump sum Provision (Walk Through Gate=1, Metal Detector=4, Walkies Talkies=8, Base Set=1)				400,000	
Sub total				400,000	
Subtracting Parking Fees				500,000	
Total Security and Parking Services				5,853,500	
				5.854	

Laundry Services

	Original			From 1st Revised to onward
Number of beds	40			<p>In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under:</p> <p>"It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</p> <p>In view of above, Outsourcing cost has been excluded from this PC-I.</p>
Type of Item	No of Beds	Per bed cost per year	Total Cost	
No of Bed	40	30,000	1,200,000	
Transport Charges			1,200,000	
Total for laundry items			2,400,000	
Total			2.400	

Maintenance of Generator

	Original			From 1st Revised to onward
Item Name	Quantity	Cost per year	Total Cost	
Periodical Maintenance Cost				
Number of Generators (200 KVA)	-	500,000	-	
Number of Generators (100 KVA)	-	325,000	-	
Number of Generators (50 KVA)	1	175,000	175,000	
Repairs Cost	1	175,000	175,000	
HR Cost				
Supervisor	1	40,000	240,000	
Generator Operator	3	30,000	1,080,000	
Technical Staff/Mechanic	-	30,000	-	
Total			1,670,000	
			1.670	

In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under:
"It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".
 In view of above, Outsourcing cost has been excluded from this PC-I.

MEP

Original					From 1st Revised to onward
Type of worker / Component	No of workers	Salary per month	Salary per Month for all persons	Salary for One Year	<p>In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under: "It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY". In view of above, Outsourcing cost has been excluded from this PC-I.</p>
Supervisors	1	56,420	56,420	677,040	
Plumber	1	32,550	32,550	390,600	
AC/ Technician	1	34,720	34,720	416,640	
Electrician	2	31,465	62,930	755,160	
Car painter	1	30,380	30,380	364,560	
Total (Salary component)			217,000	2,604,000	
	No.	Per Unit Cost per Year	Cost per Year for all Items	Cost for One Year	
A/C	70	6,665	466,550	466,550	
Fridge	5	4,000	20,000	20,000	
UPS	12	8,000	96,000	96,000	
Water Cooler	15	4,000	60,000	60,000	
Exhaust	7	3,000	21,000	21,000	
Geyser	15	4,000	60,000	60,000	
Water Pump	3	3,000	9,000	9,000	
Carpentry Work		-	180,000	180,000	
Electrical Work		-	120,000	120,000	
Plumbing Work		-	75,000	75,000	
Sub Total				1,107,550	
General Total				3,711,550	
				3.712	

Medical Gases

		Original				From 1st Revised to onward
Scope of Work		Monthly Consumption per THQ Hospital	Annual Consumption per THQ Hospital	Rate per Cylinder	Total Annual Cost per THQs	
Oxygen	Medical Oxygen Gas in 240 CFTCylinder (MM)	12	144	1850	266,400	<p>In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under:</p> <p>"It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</p> <p>In view of above, Outsourcing cost has been excluded from this PC-I.</p>
	Medical Oxygen Gas in 48 CFTCylinder (MF)	30	360	1,000	360,000	
	Medical Oxygen Gas in 24 CFTCylinder (ME)	40	480	800	384,000	
Nitrous Oxide	Nitrous Oxide in 1,620 Liter (XE)	2	24	5,000	120,000	
	Nitrous Oxide in 16,200 Liter (XM)	1	12	12,500	150,000	
Nitrogen Gas	Nitrogen Gas	1	12	2,000	24,000	
Total					1,304,400	

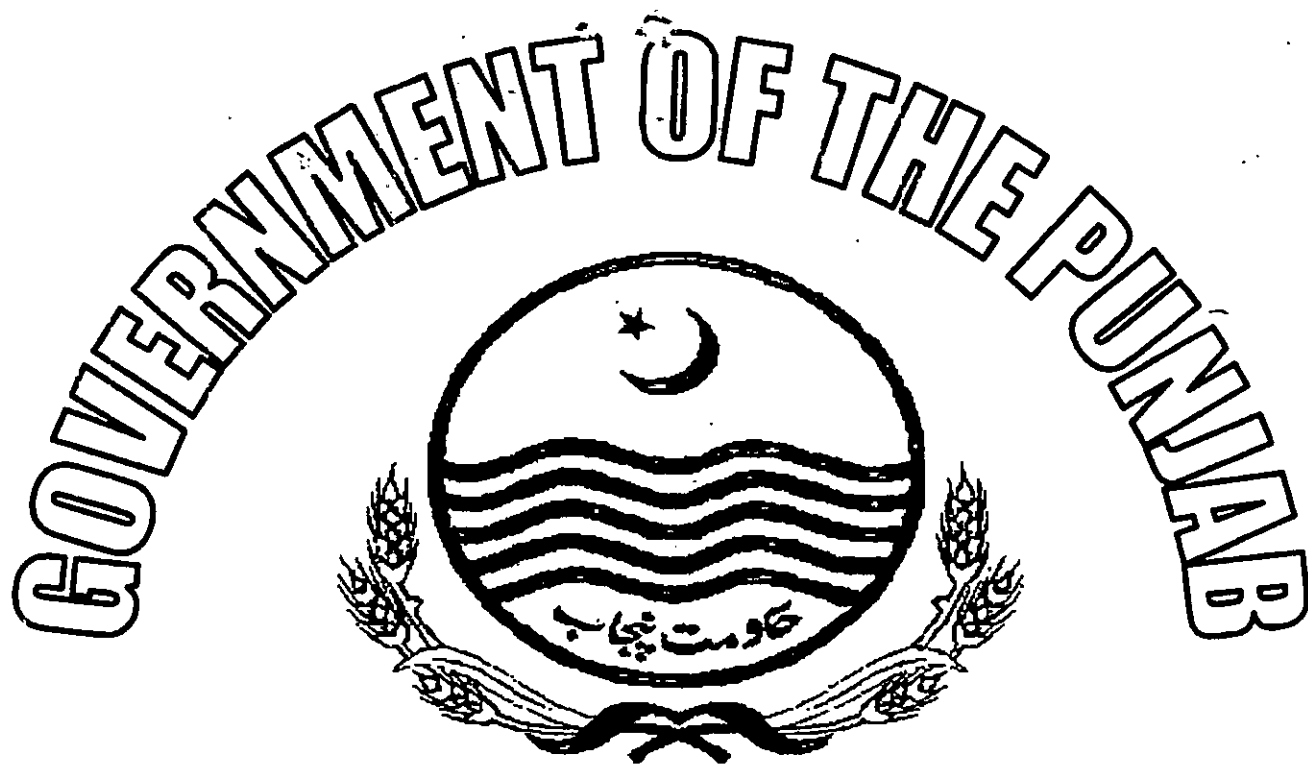
1.304

Cafeteria						
Pre-Fabrication Cateen (Procurement)						
Sr. No.	Description of work	Original				From 1st Revised to onward
		Unit	Qty	Rate (Rs)	Amount (Rs)	<p>In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under:</p> <p>"It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</p> <p>In view of above, Outsourcing cost has been excluded from this PC-I.</p>
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) for ordinary soil	Cft	2545	6.13	15,602	
2	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	Sft	4305	2.21	9,514	
3	Supplying and filling sand of approved quality from outside sources under floors etc complete in all respects.	Cft	2268	15.62	35,426	
4	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor and foundation, complete in all respects.	Cft	998	39.15	39,069	
5	Providing and laying damp proof course (1½" thick (40 mm)) of cement concrete 1:2:4, with one coat bitumen and one coat polythene sheet 500gauge	Sft	318	43.34	13,789	
6	Brick work with cement, sand mortar ratio 1:5	Cft	1792	180.25	323,071	
7	Cement concrete plain Ratio 1: 4: 8 including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)	Cft	427	170.72	72,893	
8	Cement concrete plain Ratio 1: 2 : 4 including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)	Cft	1043	190.48	198,746	
9	Placing Granite tiles (24"x24"x0.5") using white cement over a bed of ¾" (20 mm) thick cement mortar 1:6.	Sft	2160	200.00	432,000	
10	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.	Sft	720	118.00	84,960	
Total Amount of Platform Construction					1,225,070	
Pre-Fabrication of Canteen Structure						
11	Providing and fixing aluminium frame window with double glazed glass 6mm+6mm thick complete in all respect as approved by engineer	Sft	48	1100.00	52,800	
12	Providing and fixing aluminium frame door with single glazed glass 6mm thick complete in all respect as approved by engineer	Sft	56	700.00	39,200	
13	Fixing of frameless Glass wall of approved quality and design as approved by engineer	Sft	550	1500.00	825,000	
14	Providing Granite skirting or dado 4/8"(13 mm) thick including rounding of corner and straight ening of top edge and finishing to smooth surface afterplastering	Sft	491	212.00	104,177	
15	Placing & erection of pre-painted Box section tube Columns of M.S sheet 4mm thick of size 4" x4" complete in all respect.	Kg	693	150.00	103,950	
16	Placing & erection of pre-painted Box section tube Rafters of M.S sheet 4mm thick of size 3" x3" with all fittings, complete in all respect.	Kg	1040	150.00	155,925	
17	Placing & erection of pre-painted Box section tube Purlins of M.S sheet 1.6 mm thick (16 Gauge) of size 2" x2", with all fittings, complete in all respect.	Rft	676	120.00	81,144	
18	Placing & erection of pre-painted, Galvanized Sandwiched board of 0.5 mm thick M.S sheet with 50mm PU insulation with all fittings, complete in all respect.	Sft	2640	400.00	1,055,800	
19	Placing & fixing glass wool complete in all respect.	Sft	3024	50.00	151,200	
20	Placing & fixing Gypsum False Ceiling, complete in all respect.	Sft	3024	70.00	211,680	
21	Providing & Fixing corrugated galvanized iron sheets 22 gauge with EPDM screw fittings, complete in all respect.	Sft	3629	145.00	526,176	
Total Cost of Pre-Fabrication of Canteen Structure					3,307,052	
Total Amount (Rs)					4,532,121	
22	Electrification				998,735	
23	Plumbing and Sanitary				410,000	
24	Kitching Fixtures				802,000	
Grand Total Amount (Rs)					6,742,856	6.743

LANDSCAPE DEVELOPMENT WORKS					
COST ESTIMATE					
		Original			From 1st Revised to onward
Sr. No.	Description	Unit	Quantity	Unit Rate Rs.	Amount Rs.
1	SOFT LANDSCAPE				
1.1	TOP SOIL				
	Providing, spreading and leveling of topsoil (sweet soil including manure and fertilizers) as required complete in all respects as per Drawings, Specifications and as approved by the Engineer.	Cft	19,250	22	423,500
1.2	STONE / PEBBLES				
	Supply and laying a layer of pebbles/stone at specified locations with Landscape base as in Landscape Design approved by the Engineer.	Truck	2	34,375	68,750
1.3	GRASSING				
a	GRASSING (EXISTING NON MAINTANE LAWNS)				
	Providing and dibbing of Fine Dacca grass where required, including mud filling/leveling and contour shape preparation conforming to the criteria outlined in the Specifications, complete in all respects as per Drawings, Specifications and as approved by the Engineer.	Sft	26,400	7	184,800
b	GRASSING (NEW LAWNS)				
	Providing and dibbing of Fine Dacca grass, including mud filling/leveling and contour shape preparation conforming to the criteria outlined in the Specifications, complete in all respects as per Drawings, Specifications and as approved by the Engineer.	Sft	33,000	11.25	371,250
1.4	TREE / SHRUBS (SPREADING)				
	Providing and planting tree / shrub as listed and as arrangement and type shown in the Drawings, in pits of size 305mm x 305mm x 305mm. Dug in improved soil 610mm. deep filled by adding 10% cow dung manure and confirming to the criteria outlined in the Specifications, complete in all respects and to the satisfaction of Engineer.				
a	Trees 18" pot 6'-7" - Terminally, Cassia Fistula, Bauhinia Variegated, Alstonia Choirs, Ficus Yellow, Ficus Black, Jacaranda, Piken, Mangifera etc.	No's	135	1,500	202,500
b	Trees 12" pot 3'-4" - Polyalthia Long fola, Terminally, Cassia Fistula, Bauhinia Variegated, Latonia Choirs, Delonix Regia, Ficus Yellow, Focus Black, ficus Starlight, Melaluca, Mimuspss, Pine, Ficus Amestai, Piken, Palms etc.	No's	31	270	8,370
c	Plantation of Fruit Plants in the vacant area 12" pot 3'-4" - Am rood, Jaman, Berri, Mango, Citrus. Including site preparation, plantation, watering and maintenance for six months.	No's	400	600	240,000
1.5	Shrubs and Ornamental Plants 10" pot Pittosporum Variegated, Murray Small, Ixora Coccinea, Juniper Variegated, Hibiscus Variegated, Carronda Dwarf Spp, Jasmine Sambac(Mottya), Leucophyllum Frutescens(Silvery), Rose, Nerium, Lantana, Canna, Asparagass, Conocarpus, Acalypha, Callistemon Dwarf, Cestrum, Thabernaemontana Variegated etc.	No's	12,000	69	828,000
a	Shrubs and Ornamental Plants 12" pot Pittosporum Variegated, Ixora Cochineal, Juniper Variegated, Carronade Dwarf, Jasmine Thai, Plumier Robar, Cassia Malacca, Largest mea, Euphorbia, Jestrophia Thai etc	No's	1,886	195	367,770
1.6	GROUND COVERS				
	Providing and planting ground covers as listed and as arrangement and type shown in the Drawings, in pits of size 150mm x 150mm x 150mm. Dug in improved soil 610mm deep filled by adding 10% cow dung manure and confirming to the criteria outlined in the Specifications, complete in all respects and to the satisfaction of Engineer.				
	Ground Cover Plastic Bag Plants Alternant Hera, Dianella, Iresine (Red), Hemercolis(Dayily), Duranta etc.	No's	12,816	12	153,792
1.7	PALMS				
	Providing and planting palms as per Drawings, specifications and to the satisfaction of Engineer.				
a	Palm 18" pot - Queen Palm, Wodyetia Bifurcate, Washingtonian Palm, Biskarkia etc.	No's	15	3,675	55,125
b	Palm 18" pot - Phoenix Palm, Cyrus Palm	No's	20	1,800	36,000
1.8	CREEPERS				
	Providing and planting Creepers as listed and as arrangement and type shown in the Drawings, in pits of size 305mm x 305mm x 305mm. Dug in improved soil 610mm. deep filled by adding 10% cow dung manure and confirming to the criteria outlined in the Specifications, complete in all respects and to the satisfaction of Engineer.				
	Creepers 12" Pot - Bougainvillea, Bonsai, Qusqualus, Bombav Creeper etc.	No's	64	195	12,480
2	HARD LANDSCAPE				
2.1	WALK WAYS				
a	Excavation of walkways and edging including brick ballast under 12"X14" curb stones fixing with 1:2:4 PCC, supply of 7000PSI tuff tiles 60mmas per approved design fixing on 4" brick ballast compacted and grouting with sand.	Sft	2640	150	396,000
2.2	BENCHES				
	Concrete Bench 5' wide complete in all respects and to the satisfaction of Engineer as per approved design.	No's	12	14,698	176,376
2.3	DUSTBINS				
	Complete in all respects and to the satisfaction of Engineer as per approved design.	No's	8	27,700	221,600
2.4	PLAYING EQUIPMENTS				
	Complete in all respects and to the satisfaction of Engineer as per approved design.	No's	1	544,939	544,939

In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&D Board; it was inter alia decided as under:
"It would be made sure by the P&SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".
 In view of above, Outsourcing cost has been excluded from this PC-I.

LANDSCAPE DEVELOPMENT WORKS						
COST ESTIMATE						
		Original			From 1st Revised to onward	
2.5	PLANTERS					
	Concrete planters 2' X 2-1/2' complete in all respects and to the satisfaction of Engineer as per approved design.	No's	11	3,850	42,350	
2.6	WATER POINTS (Injector Pump 1HP)	No's	2	45,000	90,000	
3	SOFT LANDSCAPE MAINTENANCE (Including maintenance and up keeping of site for 6 months) after development as per specifications and to the satisfaction of Engineer.	Sft	66,000	9.00	594,000	
4	CONSTRUCTION OF PLANTERS					
	Large Size					
4.1	with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.	No's	257	550	141,350	
	Medium Size					
4.2	with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.	No's	33	550	18,150	
	Small Size					
4.3	with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.	No's	61	550	33,550	
5	GAZEBO Construction of Gazebo 12' X 12' with top fiberglass 3 layer canopy as per approved design and to the satisfaction of Engineer.	No's	1	200,000	200,000	
	Total Amount of - Landscaping				5,410,652	
	PRA(16%)				865,704	
	Design Consultancy				100,000	
	Grand Total				6,376,356	
					6.376	



BUILDINGS CIRCLE
DERA GHAZI KHAN

BUILDINGS DIVISION
MUZAFFARGARH

REVISED ROUGH COST ESTIMATE FOR THE
WORK REVAMPING OF TEHSIL
HEADQUARTERS HOSPITALS ONE AT JATOI
DISTRICT MUZAFFARGARH

Amount Rs : 100.099 (M)

BUILDINGS SUB DIVISION ALI PUR

PROVINCE: -

PUNJAB

CIRCLE:

BUILDINGS CIRCLE
DERA GHAZI KHAN

DIVISION:

BUILDINGS DIVISION
MUZAFFARGARH

SUB DIVISION:

BUILDINGS SUB DIVISION
ALI PUR

NAME OF WORK:

REVISED ROUGH COST ESTIMATE
FOR THE WORK REVAMPING OF
TEHSIL HEADQUARTERS
HOSPITALS ONE AT JATOI
DISTRICT MUZAFFARGARH

MAJOR HEAD:

MINOR HEAD:

Amount:

Rs : 100.099 (M)

REVISED ROUGH COST ESTIMATE FOR THE WORK REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT MUZAFFARGARH

Reference : P&S Health care Department letter No.

HISTORY:

The Scheme was approved by the primary & Secondary Health care Department Lahore order No.PO(D-II) 1-237/2021 dated 28-01-2022 for Rs.60.881(M). The work was allotted vide EE No.3887/CB dated 12-03-2022 to the Contractor after observing all codal formalities who started the work. The Scheme is near to completion. The primary & Secondary Health care Department Lahore gave new scope of work for the above said scheme. The Rough Cost Estimate for the revised scope has been prepared on fresh plinth area rates (2nd BI-Annual 1st July to 31st December 2022), as the new scope is 35.58% excess over original scope of work, and As per Clause 42, Contract agreement cannot be Enhanced more than 20%. So this revised Rough Cost Estimate amounting to Rs.100.299 (M) Including 60.881(M) of pervious scope on (Plinth Area Rates 1st BI-annual 2022 and 39.217(M) of new scope on Plinth area rates 2nd BI-annual 2022 (Which will be allotted after splitting of scheme) has been prepared for getting revised Administrative Approval from the competent Authority.

DESIGN AND SCOPE:

1	Revamping of Main Building	1	Job
2	Revamping of Emergency Block	1	Job
3	Boundary WALL 9" thick and 8' Height above Plinth Level	600	Rft
4	External Electrification	1	Job
6	Razor Cut Wire	600	Rft
7	Construction of Store Room Size 20x15	384	Sft
8	Construction of Electric Room Size 14x14 with verandah 6'	374	Sft
9	External Development	1	Job

DESIGN:

The work will be got executed in accordance with the Buildings Department's specifications and to the entire satisfaction of the Engineer incharge, 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:

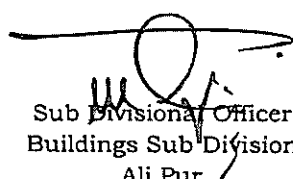
Land will be provided by the client Department.

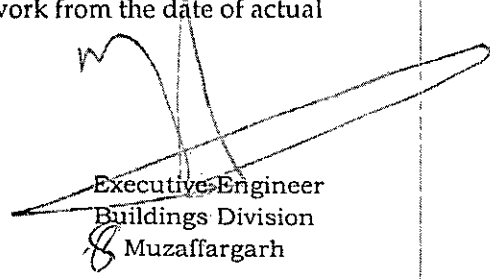
COST:

The total cost of this project comes to **Rs : 100.099 (M)**

TIME LIMIT:

It will take about (12) 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
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh

No. PMU/(P&SHD)/2022/0580
PROJECT MANAGEMENT UNIT
P&S HEALTHCARE DEPARTMENT
(31-E/1, Shahrah-e-Hazrat Iqbal Hussain
Gulberg-III, Lahore, Ph. 042-99231209)
Dated: December 12th, 2022

Executive Engineer,
Buildings Division,
Muzaffargarh.

SUBJECT: SUBMISSION OF ACTUAL PRICE VARIATION & REVISED ROUGH COST ESTIMATE OF REVAMPING OF ALL THQ HOSPITALS IN PUNJAB ONE AT THQ HOSPITAL JATOI ADP NO. 658 FOR THE YEAR 2022-23.

Through yours Good Office a 10% Price Variation Estimate for Revamping of THQ Hospital Jatoi was received on 10-11-2022 by Hand in the office of the undersigned.

2. In this regard it is stated that please submit Revised Rough Cost Estimate of the subject scheme along with detail working instead of 10% price variation in the light of P&D letter no. 594/AC(Tech)/P&D/2022-23 dated 09-09-2022. It is further stated that the said PC-I is planned to be revised in DDSC which is planned within next week due to revenue component. Hence, it is requested to submit the Revised Estimate of civil work by incorporating actual price variation whether it exceeds 10% or not by 14-12-2022. So that the Revised Approvals could be issued timely.
3. It is further stated that this office received a Revised Rough Cost Estimate for the work Revamping of All THQ Hospitals in Punjab One at THQ Hospital Jatoi. In this regard it is informed that please include the items that were not taken in Estimate on which Approval was taken. Same Works/Items were conveyed to Building Department through written Scope by PMU, P&SHD after the detailed visit of PMU, P&SHD.
4. Submitted for further necessary action please.


Project Manager Civil

PMU P&SHD

1. Project Director, PMU, P&SHD, Lahore.
2. Deputy Project Director, PMU, P&SHD, Lahore.
3. Director Infrastructure, PMU, P&SHD, Lahore.
4. Chief Engineer Buildings, South Zone, Lahore
5. Superintending Engineer, Building Circle Multan.
6. Office Copy I&C.

From

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

To

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

Memo No. 76-Dev/2014/

Dev. Dated .01.2022

Subject: **AMENDED ROUGH COST ESTIMATE FOR THE WORK
"REVAMPING OF TENSIL HEAD QUARTERS HOSPITAL ONE AT
JATOI DISTRICT MUZAFFARGARH".**

Please find enclosed herewith a copy of amended rough cost estimate amounting to
Rs. 60.881(M) duly vetted by the Chief Engineer for amended Administrative Approval.

The amended rough cost estimate has been prepared on the basis of rates meant for
Bi-annual, 2022.

DA/As Above.

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

Endst: No.

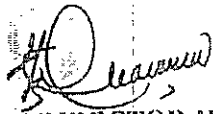
1002-04

/Dev, Dated / 1.01.2022.

A copy is forwarded for information to:-

1. The Superintending Engineer, Buildings Circle, D.G.Khan, for information with reference to his letter No.2416/DB, dated 11.01.2022.
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.

AMENDED ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT MUZAFFARGARH

Sr. No.	Name of work	Plinth area	Unit	Rough Cost Estimate Plinth area rates (1st BI-Annual 1st Jan to 30th June 2021)						Amount	Plinth area	Unit	Amended Rough Cost Estimate Plinth area rates (1st BI-Annual 1st Jan to 30th June 2022)						Amount	Difference		Remarks
				D.P	Extra for Strip/ isolated column footing	P.H	E.I	S.I	Total				D.P	Extra for Strip/ isolated column footing	P.H	E.I	S.I	Total		Excess	Saving	
A	NON RESIDENTIAL PORTION																					
i	Medicine Store (62.25x42.25)=2630	2630	P.Sh	2102	284	75	98	34	2593	6819752	2630	P.Sh	2613	2916	110	146	47	2916	7669080	817326	P-Area rates issued by the Chief Engineer Punjab, Deptt. Health, Govt. Punjab Lahore, for the period 1st BI-Annual 1st Jan to 30th June 2022 BRJ/HZ	
	Extra Provisions																					
1	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 up to 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 (ii) 600mmx600 mm	2400	Sq	120					128	307817	2400	Sq	302.25	155.0	36.15			183.41	440179	112362	MRS Rates	
2	Providing and laying superb quality Porcelain glazed tiles of Master brand, single shade of specified size, Color and Shade with adhesive/bondover 1/2" thick (1:2)cement plaster up to 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 (ii) 600mm x600 mm	2800	Sq	105					105	294196	2800	Sq	302.25	154.6				147.68	413517	119321	MRS Rates	
4	Providing and laying fair face Gypsa cladding laid in (1:2) cement/red posso mortar having 1/4" thick groove finish i/c cost of BSWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing excluding Admige charges complete in all respect as approved and directed by the Engineer incharge 2-1/4" x 2-1/4" x 9"	3135	Sq	115					115	361655	3135	Sq	160.1	28.169				131.93	413604	51949	MRS Rates	
ii	Revamping of Main Building	1	P.Job	17640000					17640000	17640000	1	P.Job	22571000					22571000	22571000	4931000	-65-	
ii	Provision of Approach Road	1	P.Job	8978700					8978700	8978700	1	P.Job	10749500					10749500	10749500	1770800	-60-	
i	INSTALLATION OF R.O (REVERSE OSMOSIS) WATER PURIFICATION PLANT COMPLETE IN ALL RESPECT OF APPROVED QUALITY THE SPECIFICATION OF PURIFICATION PLANT CAPACITY 1000 L.P.H AS APPROVED BY THE ENGINEER INCHARGE	1	Job	2051500						2051500	1	Job	1694000	1617000				1617000	1694000	434500	Analysis attached	
ii	INSTALLATION OF R.O (REVERSE OSMOSIS) WATER CHILLER UNIT COMPLETE IN ALL RESPECT OF APPROVED QUALITY THE SPECIFICATION OF PURIFICATION PLANT CAPACITY 300 L.P.H AS APPROVED BY THE ENGINEER INCHARGE	1	Job	308000						308000	1	Job	308000					308000	308000	0	Detail attached	
ii	Parking shed 65x30	1950	P.Sh	704					704	1372800	1950	P.Sh	895					895	1745389	372589	-62-	
iii	Provision of Sheds for Generators (20X20)*2=800	800	P.Sh	704					704	563200	800	P.Sh	895					895	716057	152857	-60-	
iv	Provision of Street Lights	1	P.Job	2208800					2208800	2208800	1	P.Job	3019200					3019200	3019200	810400	-60-	
ii	Boundary WALL 0" thick and 8' Height above Plinth Level	1200	Rt	4636					4636	5563200	1070	Rt	6225					6225	6660750	1097550	-60-	

Providing and fixing and climb high security galvanneal razor cut wire having double sharp four U-shaped pointed 0.5 mm thick (22mmx15mm bars) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making post fencing of specified diameter @ 4" c/c fixed on 2" x 3" high M/S angle iron post 1 1/2" x 1 1/2" x 3/16" embedded in base of PCC (1:2:4) (4" x 4" x 9") @ 4" apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts, binding wire, painting of posts, etc. complete in all respects as approved and directed by the Engineer incharge. (i) 24" diameter	1200	RR	460	460	552000	1200	RR	323	322.55	357.60	164100	164400	164400	164400
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Add 15% external Development Charges
= 0.00

Rs. 14928063

Add 5% P.S.T

Add 1% Tree Plantation

Total = 47021620
Rs. 2239209
Rs. 49260829
Rs. 2463041
Rs. 492608
52215479
522154000
52.215

7669080/-
7669080/-

Total = 56688100/-
Rs. 7669080/-
56688100/-

57435308
2871765
574353

60881436
60881000
60881000

62603923
62603923
62603923

Sub. Engineer

$$A.A = 52.215 \text{ CM}$$

$$A.A.B = 60.881 \text{ CM}$$

$$8.666 \text{ CM}$$

$$\frac{8.666 \times 100}{52.215} = 16.60\% \text{ EXCESS}$$

Sub Divisional Officer
Buildings Sub Division
Ali Pur

Sub Divisional Officer
Buildings Sub Division
Mumfarghat

Superintending Engineer
Buildings Circle
Dera Ghazi Khan

TECHNICALLY VETTED

For Rs. 60.881 (Lakhs)

Chief Engineer Punjab Buildings Deptt. South Zone, Lahore.

Deputy Engineer Punjab Buildings Deptt. South Zone, Lahore.

Chief Engineer Punjab Buildings Deptt. South Zone, Lahore.

REVISED ROUGH COST ESTIMATE FOR THE WORK REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT MUZAFFARGARH

Name of work	As Per A.A (A)					Work Alloted (B)					WORK YET TO BE ALLOTTED (C)										Amounts	Total B+C	Excess	Saving	Remarks
	Plinth area	Unit	Plinth area rates (1st BI- Annual 1st Jan to 30th June 2022)		Amounts	Plinth area	Unit	Plinth area rates (1st BI- Annual 1st Jan to 30th June 2022)		Amounts	Plinth area	Unit	Plinth Area rates (2nd BI-Annual 1st July to 31st December 2022)												
			B.P	Total				B.P	Total				B.P	Extra for Strip/ Isolated column footing	P.H	E.I	S.I	Total							
ON RESIDENTIAL PORTION																									
Medicine Store (2.25x42.25)=2630	2630	P.Sft	2613	2916	7669050	2630	P.Sft	2613	2916	7669050										7669050	0	0	P-Area rates issued by the Chief Engineer Prov. Hdqrs. Deptt. South Zone Punjab Lahore, for the period 1st BI Annual 1st Jan to 30th June 2022		
Extra Provisions																									
Providing and laying superb quality Porcelain glazed flooring of MASTER brand of specified size in proved design Color and Shade with adhesive bondover 3/4" thick (1:3) cement plaster to the cost of sealer for finishing the joints to cutting grinding complete in all respect as approved and directed by the Engineer incharge a) Full body glazed tiles (b) 600mmx600 mm	2400	Sft	302.25	183.41	440179	2400	Sft	302.25	183.41	440179										440179	0	0	MRS Rates		
Providing and laying superb quality Porcelain glazed flooring of MASTER brand, skirting/dado of specified size, Color and Shade with adhesive bondover 3/4" thick (1:3) cement plaster to the cost of and sealer finishing the joints cutting grinding complete in all respect as approved and directed by the Engineer incharge Full body Glazed Tiles 600mm x600 mm	2800	Sft	302.25	147.68	413517	2800	Sft	302.25	147.68	413517										413517	0	0	MRS Rates		
Providing and laying 4 1/2" thick low fire Special brick padding (9"x4-1/2"x3") laid in (1:3) cement mortar having 1/2" thick base finish/cement plaster 1/8" SWG wire mesh placed horizontally and vertically at 16" and 18" respectively/cutting grinding complete in all respect as approved and directed by the Engineer incharge	3135	Sft	160.10	131.93	413604	3135	Sft	160.10	131.93	413604										413604	0	0	MRS Rates		
Revamping of Main Building	1	P.Job	22571000	22571000	22571000	1	P.Job	22571000	22571000	22571000	1	P.Job	10611085					10611085	10611085	31149885	10611085			MRS Rates	
Revamping of Emergency Block	1	P.Job	10749500	10749500	10749500	1	P.Job	10749500	10749500	10749500	1	P.Job	4891919					4891919	4891919	4891919	4891919			MRS Rates	
Division of Approach Road	1	P.Job	10749500	10749500	10749500	1	P.Job	10749500	10749500	10749500									10749500	0	0			MRS Rates	
INSTALLATION OF R.O (REVERSE OSMOSIS) WATER PURIFICATION PLANT COMPLETE IN ALL RESPECT OF PROVED QUALITY THE SPECIFICATION OF PURIFICATION PLANT CAPACITY 1000 L.P.H AS PROVED BY THE ENGINEER INCHARGE	1	Job	1617000	#	1617000	1	Job	1617000	#	1617000									1617000	0	0			Analysis attached	
INSTALLATION OF R.O (REVERSE OSMOSIS) WATER PULLER UNIT COMPLETE IN ALL RESPECT OF PROVED QUALITY THE SPECIFICATION OF PURIFICATION PLANT CAPACITY 200 L.P.H AS PROVED BY THE ENGINEER INCHARGE	1	Job	308000		308000	1	Job	308000		308000									308000	0	0			Analysis attached	
Working shed 65x30	1950	P.Sft	895	895	1745389	1950	P.Sft	895	895	1745389									1745389	0	0			Detail Attached	
Division of Sheds for Generators (20'x20'-400)	800	P.Sft	895	895	716057	800	P.Sft	895	895	716057									716057	0	0			Detail Attached	
Division of Street Lights	1	P.Job	3019200	3019200	3019200	1	P.Job	3019200	3019200	3019200									3019200	0	0			Detail Attached	
Boundary WALL 9" Thick and 8' Height above ground level	1070	Rft	6225	6225	6660750	1070	Rft	6225	6225	6660750	600	Rft	7586					7586	4551600	11212350	4551600			Plinth Area Rates	
Work for extra height											600	Rft	3267					3267	1960200	1960200	1960200			Analysis attached	
Internal Electrification	1	P.Job	6204323								1	P.Job	6204323					6204323	6204323	6204323	6204323			Detail Attached	

															N T F S R							
ii	Providing and fixing anti climb high security galvanized razor cut wire having double sharp (four U-shaped pointed 0.5 mm thick (22mmx15 mm bars) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1½"x1½"x3/16" embed in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts binding wire, painting of posts, etc. complete in all respects as pproved and directed by the Engineer incharge. (i) 24 " diameter	1070	Rft	322.55	322.55	345128.5	1070	Rft	322.55	322.55	345128.5	600	Rft	541.55	541.55	324930	670059	324930	MRS Rates			
	Construction of Store Room Size 20x15											383.8	Sft	3598.00		120	227	3945.00	1514140	1514140	1514140	Plinth Area Rates
	Construction of Electric Room Size 14x14 with verandah 6'											373.8	Sft	3598.00		120	227	3945.00	1474444	1474444	1474444	Plinth Area Rates
	External Development											1	Job	3750908				3750908	3750908	3750908	3750908	Detail Attached
Total =															35283549	91981553	35283549	0				

Add 10% external Development Charges =
 on
 Add 5% P.S.T
 Add 1% Tree Plantation
 MEPCO Charges
 Total = 56668404
 Rs. 14928063 Rs. 766908
 Rs. 57435308
 Rs. 2871765
 Rs. 574353
 60881426
 Say 60881426
 60.881

Amount of Rough Cost Estimate	60.881
Amount of Revised Rough Cost Estimate	100.099
Total	39.218
Saving/Excess %Age =	64.42 % Excess

Total = 53706419
 Rs. 14928063 Rs. 766908
 Rs. 57435308
 Rs. 2871765
 Rs. 574353
 57,742,000
 Say 57,742,000
 60.881 (M)

57.742 (M)

Total = 33031995
 Rs. 14928063 Rs. 766908
 Rs. 57435308
 Rs. 2871765
 Rs. 574353
 36,830,704
 Say 36,830,704
 36.831 (M)

Executive Engineer
 Buildings Division
 Muzaffargarh

Vetted for Rs. 100.099 (M)

Chief Draftsman
 Buildings Department
 South Zone, Lahore

Superintending Engineer
 Buildings Circle
 Dera Ghazi Khan

**REVISED ROUGH COST ESTIMATE FOR THE WORK REVAMPING OF TEHSIL
HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT MUZAFFARGARH
(WORK YET TO BE ALLOTTED)**

Sr. No.	Name of work	Plinth area	Unit	Revised Rough Cost Estimate Plinth area rates (2nd BI-Annual 1st July to 31st December 2022)					Amounts	Remarks
				B.P	P.H	E.I	S.I	Total		
A	NON RESIDENTIAL PORTION			8359531				8359531		
1	Revamping of Old Building	1	P.Job	10611085				10611085	10611085	MRS Rates
2	Revamping of Emergency Block	1	P.Job	4891919				4891919	4891919	MRS Rates
3	Boundary WALL 9" thick and 8' Height above Plinth Level	600	Rft	7586				7586	4551600	Plinth Area Rates(2nd BI- Annual 1st July to 31st December 2022)
4	Add for extra height	600	Rft	3267				3267	1960200	Analysis Attached
5	External Electrification	1	P.Job	6204323				6204323	6204323	Detail Attached
6	Providing and fixing anti climb high security galvanized razor cut wire having double sharp four U-shaped pointed 0.5 mm thick (22mmx15 mm barbs) spaced @ 33 mm c/c cladded over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1½"x1½"x3/16" embedded in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts , binding wire, painting of posts, etc. complete in all respects as pproved and directed by the Engineer incharge. (i) 24 " diameter	600	Rft	541.55				541.55	324930	MRS Rates

7	Construction of Store Room Size 20x15	383.8	Sft	3598.00	120	227		3945.00	1514140	Plinth Area Rates(2nd BI- Annual 1st July to 31st December 2022)
8	Construction of Electric Room Size 14x14 with verandah 6'	373.8	Sft	3598.00	120	227		3945.00	1474444	--do--
9	External Development	1	Job	3750908				3750908	3750908	Detail Attached

Total = ~~35283549~~

Add 10% external Development Charges = Rs. 2988584

Rs. 298858

33,03,995

Add 5%P.S.T

Rs. ~~35582403~~

33,330,853

Add 1% Tree Plantation

~~1779120~~

166543

MEPCO Charges

~~353824~~

333,309

1500000

~~39217347~~

36,830,704


Say

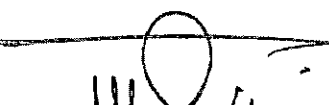
~~39217000~~

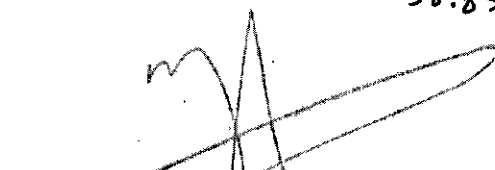
36,831,000 36831000

39,217 M

36.831(M)


Sub. Engineer


Sub Divisional Officer
Buildings Sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh

**ROUGH COST ESTIMATE FOR THE BALANCE WORK OF REVAMPING OF
TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT
MUZAFFARGARH**

Revamping					
Sr. No.	Description	Qty	Unit	Rate	Amount
1	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 respect sand as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24"/8"x24"/12"x36"	190	P.Sft	239.90	45581*
2	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24"/8"x24"/12"x36"	406	P.Sft	292.65	118816
3	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. (Non-Skid Chequered Tiles) 300mmx300mm	310	P.Sft	211.55	65581
4	Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortar complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona	30	P.Sft	204.55	6137
5	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. China Verona	68	P.Sft	412.30	28036
6	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.	720	P.Sft	1134.00	✓ 816480
7	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 hardwares as approved and directed by the Engineer Incharge	1444	P.Sft	1890.00	2729160

8	P/F of LEAD Lining 2mm thick lead sheet with wall for radiation protection upto roof height as per instruction & covering with MDF Board 3/4" thick panelling i/c frame of Kail Wood 1-1/2"x2" i/c termite proofing & fancy Deodar Wood Bæding complete in all respect as approved and directed by the Engineer Incharge also approved the Radiation Protecting agency etc.	1316	P.Sft	1730.00	2276680
9	Providing and fixing 1 1/2" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows, with mild steel chowkat (frame), etc. complete in all respects (excluding sliding bolt or lock) with:- M.S. angle iron 1 1/2"x1 1/2"x1/4", welded (40 mm x 40 mm x 6 mm) with M.S. flat 2"x1/4" (50 mm x 6 mm).	84	P. Sft	1412.35	118637
10	Supply and installation of clip-in tiles of specified thickness non-porous Aluminum false 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 x 600mm mm grid Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size suspension rods and joints sealed with silicon if required of DAMPA/DEmark, as approved and directed by the Engineer incharge.	720	P.Sft	945.00	680400
11	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3' of specified design and thickness i/c cost of fixtures i.e. galvanized angle 1" x 1" at wall sides, galvanized tee 1 1/4" x 1" and 1 1/2" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc. complete in all respects as approved and directed by the Engineer Incharge. 6 mm thick	3293	P.Sft	85.15	706149
12	24. Supply and erection of fancy LED Panel light 2'x2' i/c LED Light & Driver 36 (W) (Philips / Alpha LED Ultra Slim) or Equivalent i/c fixing in false ceiling and electric connection complete in all respect as approved/ directed by the Engineer Incharge	100	Each	14800.00	1480000
13	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 charges on approved & directed by the Engineer Incharge	53	P.Sft	1040.00	55120
14	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete coloured	3	Each	2649.10	7947
15	i. P/L cutting jointing disinfecting G.I. pipe line in trenches including a l cost of Specials and valves 3/4" dia	300	P.Rft	216.00	64800
	Electric Installation (Internal) Detail Attached				490200
	Public Health (Internal) Detail Attached				612300
				Total :-	10302024
				Add 3% Contingency:-	309061
				Total:-	10611085
					8,359,351

[Signature]
Sub Engr.

[Signature]
Sub Divisional Officer
Building Sub Division
Ali Pur


[Signature]
Executive Engineer
Buildings Division
Muzaffargarh


**ROUGH COST ESTIMATE FOR THE BALANCE WORK OF
REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT
JATOI DISTRICT MUZAFFARGARH.**

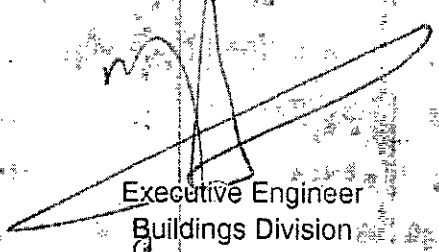
Sr. No.	ITEM OF WORK	No	MEASUREMENTS			Qty.	
			L	B	H		
1	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
	GROUND FLOOR						
	Gallary Lav	1	10	2.5		25	Sft
	Toilet	1	15	3		45	Sft
	Toilet	2	5	5		50	Sft
	Toilet	1	10.375	6.75		70	Sft
					Total	190	Sft
2	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
	GROUND FLOOR						
	Gallary Lav	1	(10+)	2.5)	6	75	Sft
	Toilet	1	(15+)	3)	6	108	Sft
	Toilet	2	(5+)	5)	6	120	Sft
	Toilet	1	(10.38+)	6.75)	6	103	Sft
					Total	406	Sft
3	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. (Non-Skid Chequered Tiles) 300mmx300mm						
	Old Buildings (Indoor)	2	15.5	10		310	Sft
					Total	310	Sft
4	Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortar complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona						
	Old Buildings (Indoor)	3	20	0.5		30	Sft
					Total	30	Sft
5	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge..China Verona						
	Old Buildings (Indoor)	3	20	1.125		68	Sft
					Total	68	Sft
6	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.						
	Eye	1	20	20		400	Sft
	Labour room	1	16	20		320	Sft
					Total	720	Sft
7	Supply and installation premium graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG 3.1 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						
	Eye	2	(20+)	20)	9.5	760	Sft
	Labour room	2	(16+)	20)	9.5	684	Sft
					Total	1444	Sft

8	P/F of LEAD Lining 2mm thick lead sheet with wall for radiation protection upto roof height as per instruction & covering with MDF Board 3/4" thick paneling i/c frame of Kail Wood 1-1/2"x2" i/c termite proofing & fancy Deodar Wood Beading complete in all respect as approved and directed by the Engineer Incharge also approved the Radiation Protecting agency etc.						
	X-Ray	2	(22+ 25)	14			
						Total	1316 Sft
9	Providing and fixing 1 1/2" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows with mild steel chowkat (frame), etc. complete in all respects (excluding sliding bolt or lock) with:- M.S. angle iron 1 1/2"x1 1/2"x1/4", welded (40 mm x 40 mm x 6mm) with M.S. flat 2"x1/4" (50 mm x 6 mm).						
	X-room	1	5	7			35 Sft
		2	3.5	7			49 Sft
						Total	84 Sft
10	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 silicon if required of DAMPA/DE mark, as approved and directed by the Engineer incharge.						
	Eye	1	20	20			400 Sft
	Labour room	1	16	20			320 Sft
						Total	720 Sft
11	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'2"x3' 3'x3' of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1 1/4" x 1" and 1 1/2" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc. complete in all respects as approved and directed by the Engineer Incharge. 6 mm thick.						
(a)	Indoor						
	Waiting	1	24	22			528 Sft
	Computer Room	2	10	8.5			170 Sft
	Medician Store	1	13	20			260 Sft
	Gallary	1	46.25	9.5			439 Sft
	M.O	1	12.25	13.5			165 Sft
	SMO	1	13.5	13.5			182 Sft
	Emergency	1	11.75	15.75			185 Sft
	WMO	1	11.75	15.75			185 Sft
	MO	1	13.5	11.5			155 Sft
	Laboratory	1	11	13.5			149 Sft
	X-Ray	1	22	25			550 Sft
	Gallary	1	43	9.75			419 Sft
	MO	1	16.5	12.25			202 Sft
	Store	2	7.75	12.25			190 Sft
	Dispencery	1	15.75	11.75			185 Sft
	WMO	1	15.75	16.75			264 Sft
	EPI	2	7.5	8			120 Sft
	Gallary	1	39.5	7.5			296 Sft
	Gallary	1	75.75	7.25			549 Sft
	Female Ward	2	16	18			576 Sft
	LHV	1	8	18			144 Sft
	Doctor	1	7.5	18			135 Sft
	Store	2	7.375	7.25			107 Sft
	EPI traning room	1	16.5	18			297 Sft
	Store / Clerk	2	9	8.5			153 Sft
	Gallary	1	68	8.5			578 Sft
	LHV	1	8.5	20			170 Sft
	Gallary	1	7	20			140 Sft
	Ward	2	20	20			800 Sft
						Total	8293 Sft

12	Providing and fixing high quality LED SMD Panel Light 2'x2' 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								
								100	No.
13	Providing and fixing Operable door comprising of 3mm thick UPVC hollow profile ,chowkat frame of 60mmx54mm and leaf frame 60 mmx106 mm both duly reinforced with G.I box frame inside the void with 20 mm wide panel with grooves on both sides i/c the cost of hardwares, hinges, four bolt and cutting changes on approved & directed by the Engineer Incharge								
		3	2.5	7				53	Sft
							Total	53	Sft


Sub Engineer


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Building Sub Division
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Executive Engineer
Buildings Division
Muzaffargarh

Electric Installation

Sr. No	Description	No	Length	Breadth	Depth	Contents	Amount
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- 1 Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-50 mm i/d

5 x 22 x -- x -- = 110 Rft
Total: = 110 Rft
@ 157.90 P.Rft

Rs. 17369/-

- 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) 3/0.025" 3 x 1200 x -- x -- = 3600 Rft
2 x 600 x -- x -- = 1200 Rft
Total: = 4800 Rft
@ 25.70 P.Rft

Rs. 123360/-

(ii) 7/0.025" 5 x 425 x -- x -- = 2125 Rft
Total: = 2125 Rft
@ 40.75 P.Rft

Rs. 86594/-

iii 7/0.036" 3 x 120 x -- x -- = 360 Rft
Total: = 360 Rft
@ 53.80 P.Rft

Rs. 19368/-

- 3 Supply & Erection of switch piano type 5 Amp.

2 x 35 x -- x -- = 70 Nos.
Total: = 70 Nos.
@ 72.90 P.Each

Rs. 5040/-

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

2 x 15 x -- x -- = 30 Nos.
Total: = 30 Nos.
@ 134.10 P.Each

Rs. 4023/-

- 5 Supply and erection of LED Bulb 40 watt best quality as approved by the engineer incharge

1 x 60 x -- x -- = 60 Nos.
Total: = 60 Nos.
@ 1650.00 P.Each

Rs. 99000/-

- 6 Supply and Erection of button holder backlite large size.

1 x 60 x -- x -- = 60 Nos.
Total: = 60 Nos.
@ 53.75 P.Each

Rs. 3225/-

- 7 Supply and erection of 3 pin switch and plug combined, recessed type. ii) 10/15 Amp

1 x 5 x -- x -- = 5 Nos.
Total: = 5 Nos.
@ 149.30 P.Each

Rs. 749/-

- 8 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 regulators, switches, plugs, etc.

iii) 22.5 x 10 cm (9"x4") 1 x 12 x -- x -- = 12 Nos.
Total: = 12 Nos.
@ 478.30 P.Each

Rs. 5740/-

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

1 x 3 x -- x -- = 3 Nos.
Total: = 3 Nos.
@ 41912.65 P.Each

Rs. 125738/-

Total: Rs. 490206/-

Say : Rs. 490200/-

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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/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 (iii)(1") 32 mm	3 x	150	x	--	= 450 Rft Total: = 450 Rft @ 106.90 P.Rft	Rs. 48105/-
2	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	1 x	15	x	--	= 15 No. Total: = 15 No. @ 2228.75 P.Each	Rs. 33431/-
3	P/F Plastic made low down flushing cistern 3-gallon capacity i/c bracket set, waste pipe and waste coupling Coloured.	1 x	13	x	--	= 13 No. Total: = 13 No. @ 4029.10 P.Each	Rs. 52378/-
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	15	x	--	= 15 No. Total: = 15 No. @ 5169.95 P.Each	Rs. 77549/-
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	13	x	--	= 13 No. Total: = 13 No. @ 13915.80 P.Each	Rs. 180905/-
6	Providing and fixing, "P" trap (glazed) 4" dia.	1 x	28	x	--	= 28 No. Total: = 28 No. @ 283.10 P.Each	Rs. 7927/-
7	Providing and fixing, floor trap of-cast iron, including concrete chamber all round, and C.I. grating:-	1 x	13	x	--	= 13 No. Total: = 13 No. @ 627.75 P.Each	Rs. 8161/-
8	Providing and fixing brass stop cock/bib cock:-a) 15 mm (1/2") dia	1 x	13	x	--	= 13 No. Total: = 13 No. @ 553.75 P.Each	Rs. 7199/-

- 9 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)

15 x 15 x -- x -- = 225 No.

Total: = 225 No.

@ 757.95

P.Each

Rs. 170539/-

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

3 x 16 x -- x -- = 48 No.

Total: = 48 No.

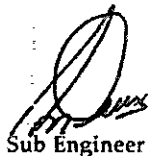
@ 543.55

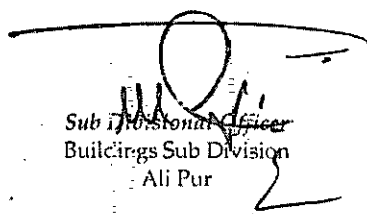
P.Each

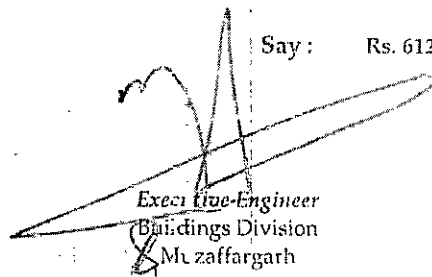
Rs. 26090/-

Total: Rs. 612284/-

Say: Rs. 612300/-


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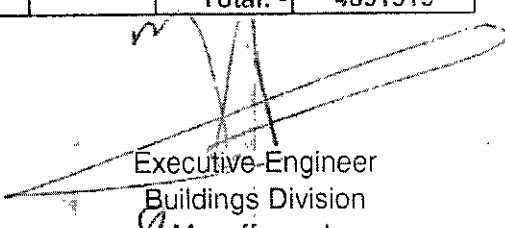
**ROUGH COST ESTIMATE FOR THE BALANCE WORK OF REVAMPING OF
TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT
MUZAFFARGARH**

Revamping					
Sr. No.	Description	Qty	Unit	Rate	Amount
1	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 respect sand as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24"/8"x24"/12"x36"	229	P.Sft	239.90	54937
2	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24"/8"x24"/12"x36"	572	P.Sft	292.65	167396
3	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. (Non-Skid Chequered Tiles) 300mmx300mm	714	P.Sft	211.55	151047
4	Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortar complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona	240	P.Sft	204.55	49092
5	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. China Verona	130	P.Sft	412.30	53599
6	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.	569	P.Sft	1134.00	645246
7	Supply and installation premium graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"X 2"X3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by the Engineer Incharge	1360	P.Sft	1890.00	2570400
8	Providing and fixing 1 1/2" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows, with mild steel chowkat (frame), etc. complete in all respects (excluding sliding bolt or lock) with:- M.S. angle iron 1 1/2"x1 1/2"x1/4", welded (40 mm x 40 mm x 6mm) with M.S. flat 2"x1/4" (50 mm x 6 mm).	77	P. Sft	1412.35	108751

9	Supply and installation of clip-n 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 CAMPA/DEmark, as approved and directed by the Engineer incharge.	569	P.Sft	945.00	537705
10	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 charges on approved & directed by the Engineer Incharge	175	P.Sft	1040.00	182000
11	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 charges on approved & directed by the Engineer Incharge	473	P.Sft	330.90	156516
12	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete coloured	3	Each	2649.10	7947
13	i. P/L cutting jointing disinfecting G.I. pipe line in trenches including all cost of Specials and valves 3/4" dia	300	P.Rft	216.00	64800
				Total :-	4749436
				Add 3% Contingency:-	142483
				Total:-	4891919


Sub Engr.

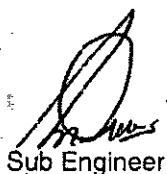

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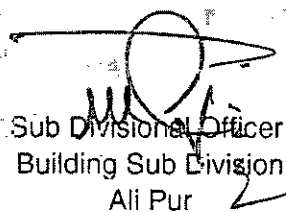

Executive Engineer
Buildings Division
Muzaffargarh

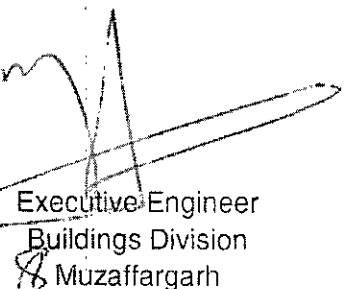
**ROUGH COST ESTIMATE FOR THE BALANCE WORK OF
REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT
JATOI DISTRICT MUZAFFARGARH**

Sr. No.	ITEM OF WORK	No	MEASUREMENTS			Qty.	
			L	B	H		
1	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
		1	4.5	6.5		29	Sft
		2	3.25	4		26	Sft
		1	6	4		24	Sft
		2	5	4		40	Sft
		1	5.25	8.75		46	Sft
		3	4.625	4.625		64	Sft
					Total	229	Sft
2	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
		1	(4.5+ 6.5)	6		66	Sft
		2	(3.25+ 4)	6		87	Sft
		1	(6+ 4)	6		60	Sft
		2	(5+ 4)	6		108	Sft
		1	(5.25+ 8.75)	6		84	Sft
		3	(4.625+ 4.625)	6		167	Sft
					Total	572	Sft
3	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. (Non-Skid Chequered Tiles) 300mmx300mm						
	Emergency	2	16	18		576	Sft
		2	12.5	5.5		138	Sft
					Total	714	Sft
4	Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortar complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona						
	Emergency	3	30	0.5		45	Sft
	Reception	4	9.75	5		195	Sft
					Total	240	Sft
5	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge..China Verona						
	Emergency	3	30	1.125		101	Sft
	Reception	1	9.75	3		29	Sft
					Total	130	Sft
6	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.						
	Emergency	1	14.5	20		290	Sft
	Emergency	1	15.5	18		279	Sft
					Total	569	Sft

7	Supply and installation premium graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of 2.5mm thick duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channal 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							
	Emergency	2	(14.5+20)	10			690	Sft
	Emergency	2	(15.5+18)	10			670	Sft
						Total	1360	Sft
8	Providing and fixing 1½" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows, with mild steel chowkat (frame), etc. complete in all respects(excluding sliding bolt or lock) with:-M.S. angle iron 1½"x1½"x¼", welded (40 mmx 40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm).							
	Ent OT	2	4.5	8.5			77	Sft
						Total	77	Sft
9	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 silicon if required of DAMFA/DEmark, as approved and directed by the Engineer incharge.							
	Emergency	1	14.5	20			290	Sft
	Emergency	1	15.5	18			279	Sft
						Total	569	Sft
10	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 charges on approved & directed by the Engineer Incharge							
		10	2.5	7			175	Sft
						Total	175	Sft
11	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness,with adhesive bond over ¾" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer,cutting, grinding and chemical polishing complete in al lrespect as approved and directed by the Engineer Incharge. i) 1/2" thick(12"x12"/12"x24")							
	Deck	1	22	21.5			473	Sft
						Total	473	Sft


Sub Engineer


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Buildings Division
Muzaffargarh

ANALYSIS FOR BOUNDARY WALL FOR 5' ADDITIONAL HEIGHT

MRS. 2nd BI-ANNUAL-2022

S.No	Description	No	L	B	H	Contents	Amount
1	a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid situ or precast laid in position, or prestressed members in situ, complete in all respects:- (3) (c) Type C (nominal mix 1: 2: 4)						
	Column	1	x	1.5	x	0.75	x 5 = 6 Cft
							Total = 6 Cft
							556.50 P-Cft 3339
6	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement: (also includes removal of rust from bars):- (b) Deformed bars (Grade-40)						
			6.00	x	6.75	x	6.45 = 18 Kgs
							Total = 18 Kgs
							31420.10 %Kgs 5656
7	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6						
		1	x	9.25	x	1.5	x 5 = 69 Cft
							Total = 69 Cft
							28578.70 %Cft 19719
11	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- c) ratio 1:2 Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
		2	x	9.50	x	-	x 5.000 = 95 Sft
							Total = 95 Sft
			3516.15	+	652.5	@	4168.65 %Sft 3960

Total 32574

Rate Per RFT

32674 / 10 = 3267

Say

= 3267

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Ali Pur

Executive Engineer
Buildings Division
Muzaffargarh

T.H.Q HOSPITAL JATOI					
Provision/Installation of Electrical Equipment.					
S.#	Description	Qty:	Unit	Rate	Amount
A	L.T. (LV) SUB-STATION EQUIPMENT:				
1	Supply, installation, testing, commissioning of MAIN SWITCH BOARD-800A (with IP-64) with Incoming From 400KVA Transformer Indication Lamp, Instrument Protection Fuse, including 600A Main copper bus bar Suitable For Each Phase/Neutral & link as per above outgoing circuit breaker, installed in cubicals assembled with SIEMENS, PEMPAK,AREVA,PEL etc. or equivalent make. of 14 SWG mild steel sheet fabricated, Outdoor Type, Floor Mounting, Insulation class 600VAC. Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexible copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part covered with safety sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respects. All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50°C. and shall be of one make only and not to be mixture.	1			
	MAIN SWITCH BOARD-800A (with SPD IP-64) (Item 91 Pg 184)			196760.25	
	Incoming from 400KVA Transformer.				
1	800A TP MCCB 50KA (Item 88 a) (v) Pg 182)	Terasaki/Schneider	01 No.	138,633	
3	Digital Volt Meter 0-600V	Entes/Schneider	01 No.		
4	Volt Selector Switch	GGT/Camsco	01 No.		
5	Digital Ampere Meter 0-600A	Entes/Schneider	01 No.		
6	Ampere Selector Switch	GGT/Camsco	01 No.		
7	Current Transformer 600/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lamps. (R+Y+B)	Schneider/Himel	03 Nos.		
9	6A Control MCB for Instrument Protection.	Terasaki/Schneider	03 Nos.		
10	630A Copper Bus Bar		01 Job.		
	OUTGOING				
1	400A TP MCCB 36KA (Item 87 a) (x) Pg 182)	Terasaki/Schneider	04 Nos.	249732	
				585,125	585125.25
2	Supply, installation, testing, commissioning of MAIN SWITCH BOARD-200A (with IP-64) with Incoming From 100KVA Transformer Indication Lamp, Instrument Protection Fuse, including 200A Main copper bus bar Suitable For Each Phase/Neutral & link as per above outgoing circuit breaker, installed in cubicals assembled with SIEMENS, PEMPAK,AREVA,PEL etc. or equivalent make. of 14 SWG mild steel sheet fabricated, Outdoor Type, Floor Mounting, Insulation class 600VAC. Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexible copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part covered with safety sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respects. All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50°C. and shall be of one make only and not to be mixture.	1			
	MAIN SWITCH BOARD-200A (with SPD IP-64) (Item 90 Pg 183)			51,964.00	
	Incoming from 100KVA Transformer.				
1	200A TP MCCB 36KA (Item 87 a) (x) Pg 182)	Terasaki/Schneider	01 No.	39,813.00	
3	Digital Volt Meter 0-600V	Entes/Schneider	01 No.		
4	Volt Selector Switch	GGT/Camsco	01 No.		
5	Digital Ampere Meter 0-600A	Entes/Schneider	01 No.		
6	Ampere Selector Switch	GGT/Camsco	01 No.		
7	Current Transformer 600/5A	Fico/Metelx	03 Nos.		
8	Phase Indication Lamps. (R+Y+B)	Schneider/Himel	03 Nos.		
9	6A Control MCB for Instrument Protection.	Terasaki/Schneider	03 Nos.		
10	200A Copper Bus Bar		01 Job.		
				93,777.00	93,777.00
3	Supply, installation, testing, commissioning of MAIN LT & WAPDA CHANGE OVER PANEL-1 with Incoming From MSB (From 400 KVA transformer) and 200 KVA generator Indication Lamp, Instrument Protection Fuse, including 600A Main copper bus bar Suitable For Each Phase/Neutral & link as per above outgoing circuit breaker, installed in cubicals assembled with SIEMENS, PEMPAK,AREVA,PEL etc. or equivalent make. of 14 SWG mild steel sheet fabricated, Indoor Type, Floor Mounting, Insulation class 600VAC. Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexible copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part covered with safety sheet, internal control & power wiring from protection & power., including cost of all necessary materials complete in all respects. All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu.shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50°C. and shall be of one make only and not to be mixture.	1			
	MAIN LT PANEL & WAPDA CHANGE OVER PANEL-1				
	Incoming from MSB and 200 KVA generator				
1	400A 4P Automatic & Manual Transfer Switch (Existing)	LKE/EQV	01 No.		
2	Digital Volt Meter 0-600V	Entes/Schneider	01 No.		
3	Volt Selector Switch	GGT/Camsco	01 No.		
4	Digital Ampere Meter 0-600A	Entes/Schneider	01 No.		
5	Ampere Selector Switch	GGT/Camsco	01 No.		
6	Current Transformer 400/5A	Fico/Metelx	03 Nos.		
7	Auxiliary Relay 8-Pin (for automatic operation)	Iskra/Finder	02 Nos.		
8	Timer with Base (for time delay operation)	FotekEqv.	02 Nos.		
9	Auto Manual Switch (for Byoass module)	GGT/Camsco	01 No.		
11	Phase Indication Lamps. (R+Y+B)	Himel/Schneider	04 Nos.		
12	6A Control MCB for Instrument Protection.	Schneider/Himel	03 Nos.		
13	Electrically Interlocking systems	Terasaki/Schneider	03 Nos.		
14	P/F PFI PLANT (Power Factor Improvement Plant) 100 KVAR (Item 93 Pg 185)		01 Job.		
	OUTGOING				
2	300A TP MCCB 36KA (Item 87 a) (x) Pg 182)	Terasaki/Schneider	03 Nos.	187299	
3	100A TP MCCB 25KA (Item 87 a) (v) Pg 181)	Terasaki/Schneider	03 Nos.	48699	
				570,375.35	570,375.35

S.#	Description	Qty	Unit	Rate	Amount
4	Supply, installation, testing, commissioning of MAIN LT & WAPDA CHANGE OVER PANEL-2 with Incoming From MSB (From 100 KVA transformer) and 100 KVA generator Indication Lamp, Instrument Protection Fuse, including 200A Main copper bus bar Suitable For Each Phase/Neutral & link as per above outgoing circuit breaker, installed in cubicals assembled with SIEMENS, PEMPAK, AREVA, PEL etc. or equivalent make, of 14 SWG mild steel sheet fabricated, Indoor Type, Floor Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexible copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part covered with safety sheet, internal control & power wiring from protection & power, including cost of all necessary materials complete in all respects. All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50°C, and shall be of one make only and not to be mixture.	1			
	MAIN LT & WAPDA CHANGE OVER PANEL-2				
	Incoming from MSB and 100 KVA generator				
1	200A 4P Automatic & Manual Transfer Switch (Item 92 b) Pg 184)	1	No.	801,175.75	
2	Digital Volt Meter 0-600V	01	No.		
3	Volt Selector Switch	01	No.		
4	Digital Ampere Meter 0-600A	01	No.		
5	Ampere Selector Switch	01	No.		
6	Current Transformer 600/5A	03	Nos.		
7	Auxiliary Relay 8-Pin (for automatic operation)	02	Nos.		
8	Timer with Base (for time delay operation)	02	Nos.		
9	Auto Manual Switch (for Ryoass module)	01	No.		
10	Push Button ON/OFF	04	Nos.		
11	Phase Indication Lamps. (R+Y+B)	03	Nos.		
12	6A Control MCB for Instrument Protection.	03	Nos.		
13	Electrically Interlocking systems	01	Job.		
14	P/F PFI PLANT (Power Factor Improvement Plant) 100 KVAR			334,277.35	
	OUTGOING				
1	200A TP MCCB 36KA (Item 87 a) (ix) Pg 182)	02	Nos.	79626	
				1,215,079.10	1,215,079.10
7	Supply, installation, testing, commissioning of DB (FOR ACs) 400A with Incoming From MSB, Indication Lamp, Instrument Protection Fuse, including 250A Main copper bus bar Suitable For Each Phase/Neutral & link as per above outgoing circuit breaker, installed in cubicals assembled with SIEMENS, PEMPAK, AREVA, PEL etc. or equivalent make, of 16 SWG mild steel sheet fabricated, Indoor Type, Floor Mounting, Insulation class 600VAC, Incoming/Outgoing connection Top or Bottom as per site requirement, door to body Earth with flexible copper cable, system voltage 415VAC, 50HZ, 3-Phase 4-Wire, degreased and derusted, zinc phosphated, finished with electro-static powder coating of 80-100 micron thickness in approved colour with hinged door, lockable handle, all live part covered with safety sheet, internal control & power wiring from protection & power, including cost of all necessary materials complete in all respects. All above ACB/MCCBs/MCBs, Make in Terasaki Japan/Schneider Eu shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. All MCCBs shall be rated at 50°C, and shall be of one make only and not to be mixture.	1			
	DB (FOR ACs) 400A			154521	
	Incoming				
1	400A TP MCCB 36KA (Item 87 a) (x) Pg 182)	01	No.	62,433.00	
2	Digital Volt Meter 0-600V	01	No.		
3	Volt Selector Switch	01	No.		
4	Digital Ampere Meter 0-200A	01	No.		
5	Ampere Selector Switch	01	No.		
6	Current Transformer 200/5A	03	Nos.		
7	Phase Indication Lamps. (R+Y+B)	03	Nos.		
8	6A Control MCB for Instrument Protection.	03	Nos.		
	OUTGOING				
1	200A TP MCCB 36KA (Item 87 a) (ix) Pg 182)	06	Nos.	358317	
	Outgoing from 200A and 150A Breakers for ACs				
1	63A TP MCB 10KA (Item 86 c) (iii) Pg 181)	02		101,196.00	
2	32A SP MCB 10KA (Item 86 a) (iii) Pg 181)	21		27,271.65	
3	20A SP MCB 10KA (Item 86 a) (iii) Pg 181)	21		27,271.65	
				731,010.30	731,010.30
D	LT POWER CABLE.				
	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc.				
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
1	240 mm sq (37/0.114") (Item 13 c) (xvi) Pg 170)	100	rlt	9,345.85	934585
2	120 mm sq (37/0.083") (Item 13 c) (xiii) Pg 170)	200	rlt	4,633.45	926690
3	95 mm sq (37/0.072") (Item 13 c) (xii) Pg 170)	250	rlt	3,676.05	919012.5
	a) PVC insulated, PVC sheathed twin core, 250/440 volts.				
1	7/1.12 mm (7/0.044") (For ACs) (Item 13 a) (v) Pg 170)	300	rlt	160.2	48060
				Total	6023615
				Add 3% Contingency	180708
				Total	6204323

Sub. Engineer

Sub Divisional Engineer
Buildings Sub Division
Ali Pur

Executive Engineer
Buildings Division
Muzaifargarh

EXTERNAL DEVELOPMENT

ABSTRACT OF COST

1 SEWARAGE SYSTEM

Rs: 814910


2 COLLECTING TANK


Rs: 971138

3 TUFF PAVER

Rs: 1964860

Total 3750908



Sub Engineer



Sub Divisional Officer
Buildings Sub Division
Ali Pur

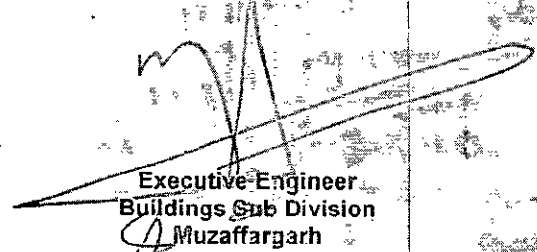

Executive Engineer
Buildings Division
Muzaffargarh

EXTERNAL DEVELOPMENT (Sewerage System)

S.No	Description	No	Length	Breadth	Depth	Contents	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						
	9" dia	1 x	200 x	1 x	2 =	400 Cft	
	12" dia	1 x	300 x	1 x	2 =	600 Cft	
					Total: =	1000 Cft	
		@	11,740.40	%Cft		11740	
2	Providing and laying R.C.C. pipe, moulded with cement Chapter - 8 concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from Factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.						
	ii) 9" dia RCC pipe.				200 Rft		
		@	528.3	P.Rft		105660	
	ii) 12" dia RCC pipe.				300 Rft		
		@	695.6	P.Rft		208680	
3	Man Hole						
		=	10			10 Nos	
					Total =	10 Nos	
		@	48629	Each		486290	
4	Rehandling of earthwork: Lead upto a single throw of Kassi, phaorah or shovel						
	Same as per item No. 1					1000 Cft	
		@	2,539.70	%Cft		2540	
					Total:	814910	


Sub Engineer


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Buildings Sub Division
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Executive Engineer
Buildings Sub Division
Muzaffargarh

EXTERNAL DEVELOPMENT (Man holes Size 4 ft. * 4 ft.)

S.No	Description	No	Length	Breadth	Depth	Contents	Amount
	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:-						
1	i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1 x	5.5 x	5.5 x	4 =	121 Cft	
				@	11,740.40	%Cft	1420.6
	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-1:6:12..						
2		1 x	5.5 x	5.5 x	0.5 =	15 Cft	
				@	21060.85	%Cft	3159.1
	Pacca brick work other than building upto 10ft.						
	i) cement, sand mortar:-Ratio 1:4						
		2 x	5.5 x	0.75 x	4 =	33 Sft	
		2 x	4 x	0.75 x	4 =	24 Sft	
					Total: =	57 Sft	
				@	31336.3	%Cft	17862
4	Cement plaster 1:4 upto 20' height.	2 x (4 x	4) x	4 =	64 Sft	
				@	3241.6	%Sft	2074.6
	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):-1:2:4						
5		1 x	4 x	4 x	0.25 =	4 Cft	
				@	38126.1	%Cft	1525
	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-46)						
6	1/2" Q.B	7 x	5.5 x	0.667 x	0.4535 =	12 Kg	
		8 x	5.5 x	0.667 x	0.4535 =	13 Kg	
					Total: =	25 Kg	
				@	31420.1	%Kg	7855
	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (1:2:4).						
7		1 x	5.5 x	5.5 x	0.4166 =	13 Cft	
				@	556.5	F.Cft	7234.5
8	Extra for benching making and finishing floor in M.H Chamber with 1/8" cement finish.	1 x	4 x	4 x	=	16 Sft	
				@	3,934.10	%Sft	629
	Providing and fixing, 6" (150 mm) thick R.C.C. manhole cover for 22" as per standard drawing STD/PD No. 6 of 1977, complete in all respects.						
9					=	1 Nos	
				@	6,869.30	Each	6869.3
					Total:		48629


Sub Engineer

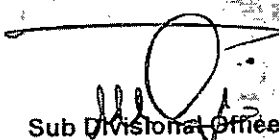
Sub Divisional Officer
Buildings Sub Division
Ali Pur

Executive Engineer
Buildings Division
Muzaffargarh

COLLECTING TANK Size 15' Dia

S.No	Description	No	Length	Breadth	Depth	Contents	Amount
1	Excavation of well in dry upto 20' (6 metre) below ground level, and disposal of soil within one chain (30 metre) a) in ordinary soil or sand :-						
i)	0' to 5'	3.14 x	20 x	20 x	5 =	1570 Cft	
			4	@	7547.95 %Cft		11850
	5.1 to 10'	3.14 x	20 x	20 x	5 =	1570 Cft	
			4	@	7883.15 %Cft		12377
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-Ratio 1: 6: 12	3.14 x	20 x	20 x	0.333 =	105 Cft	
			4	@	21,060.85 %Cft		22114
3	(a)(ii) 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	3.14 x	20 x	20 x	0.5 =	157 Cft	
	Base		4	@			
	Core wall.	3.14 x	15.25 x	0.375 x	10 =	180 Cft	
					Total: =	337 Cft	
				@	457.75 P.Cft		154262
4	(a) (i) 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:-	3.14 x	15.25 x	15.25 x	0.5 =	91 Cft	
	Roof slab		4	@	556.5 P.Cft		50642
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-40)	428 x	6.75 x	0.454 x	=	1312 Kgs	
				@	31420.1 %Kgs		412232
6	Pacca brick work other than buildings upto 10' height in 1:4	3.14 x	16.125 x	1.125 x	15 =	554 Cft	
					Total: =	854 Cft	
				@	31336.3 %Cft		267612
7	1/2" thick cement plaster 1:4.	3.14 x	15 x	15 x	=	707 Sft	
7		3.14 x	16.25 x	5 x	=	255 Sft	
					Total: =	962 Sft	
				@	3241.6 %Sft		31184
8	Providing and fixing 1.25"x1.25"x3/16" angle iron steps in man holes chamber 1/c carriage and setting the same in work to correct line.	1 x	15		=	15 Nos	
				@	591 Each		8865
					Total: =	971138	


Sub Engineer


Sub Divisional Officer
Buildings Sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh

S.NO.	DESCRIPTION OF ITEM	NO	L	B	D	C	AMOUNT
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- 1 Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) in ordinary soil.

Toe Wall	2 x	84 x	2 x	1 =	336 Cft
	2 x	45 x	2 x	1 =	180 Cft
	2 x	67 x	2 x	1 =	268 Cft
	2 x	27 x	2 x	1 =	108 Cft
	4 x	35 x	2 x	1 =	280 Cft
				Total =	1172 Cft
			@	10,677.75 %oCft	12514

- 2 Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge

Toe Wall	2 x	84 x	2 x	0.5 =	168 Cft
	2 x	45 x	2 x	0.5 =	90 Cft
	2 x	67 x	2 x	0.5 =	134 Cft
	2 x	27 x	2 x	0.5 =	54 Cft
	4 x	35 x	2 x	0.5 =	140 Cft
	0	258 0	10 0	Total =	586 Cft
			@	8,891.50 % Cft	52104

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

Toe Wall	2 x	293 x	1.125 x	0.25 =	165 Cft
	2 x	293 x	0.75 x	3 =	1319 Cft
				Total =	1483 Cft
			@	28578.70 % Cft	423911

- 4 Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside, lead upto 3 mile.

	1 x	84 x	24.5 x	2.25 =	4631 Cft
	1 x	45 x	29.5 x	2.25 =	2987 Cft
	1 x	67 x	18 x	2.25 =	2714 Cft
	1 x	27 x	15 x	2.25 =	911 Cft
	2 x	35 x	15 x	2.25 =	2363 Cft
				Total =	13604.6 Cft
			@	18,484.85 %oCft	251479

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

	1 x	84 x	24.5 x	0.5 =	1029 Cft
	1 x	45 x	29.5 x	0.5 =	663.75 Cft
	1 x	67 x	18 x	0.5 =	603 Cft
	1 x	27 x	15 x	0.5 =	202.5 Cft
	2 x	35 x	15 x	0.5 =	525 Cft
				Total =	3023 Cft
			@	9,284.40 % Cft	280691

- 6 Providing and laying Tuff Pavers 60mm thick having 7000 PSI crushing strength manufactured by (Izhar Buildings Materials (pvt) Ltd/Tuff Pavers (Pot) Ltd/ Concrete concept) over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to required slope complete in all respect as approved by the Engineer Incharge (50% Grey & 50% Coloured)"

	1 x	84 x	24.5	=	2058 Sft
	1 x	45 x	29.5	=	1328 Sft
	1 x	67 x	18	=	1206 Sft
	1 x	27 x	15	=	405 Sft
	2 x	35 x	15	=	1050 Sft
				Total =	6046.5 Sft
			@	156.15 P-Sft	944160.98

Total: 1964860

Sub Engineer

Sub Divisional Officer
Buildings Sub Division
Ali Pur

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

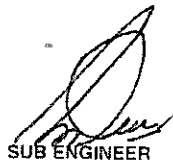
A Material						
1	ED SMD Panel Light 2 ftx2 ft	1	No	Each	12285	12285
						12285

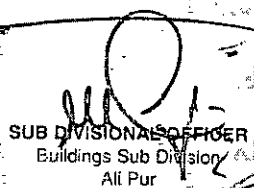
B Labour						
1	Labour for fixing / installation.	5	No	Each	967	48 1/3
					Total "B"	48
					Total Cost = "A"+"B" =	12333
	Add 20% Contractor's Profit & Overhead charges on Rs.	12333	/-			2466.67
					Grand Total: =	14800

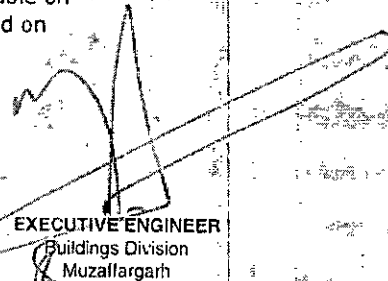
Unit Rate P Sft = 14800.02 / 14800 Each

SAY 14800 Each

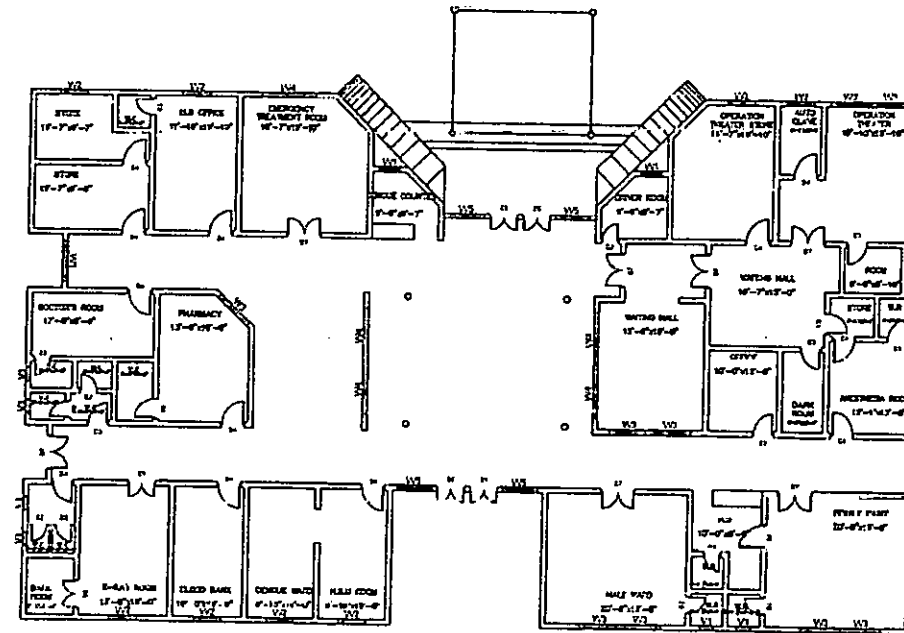
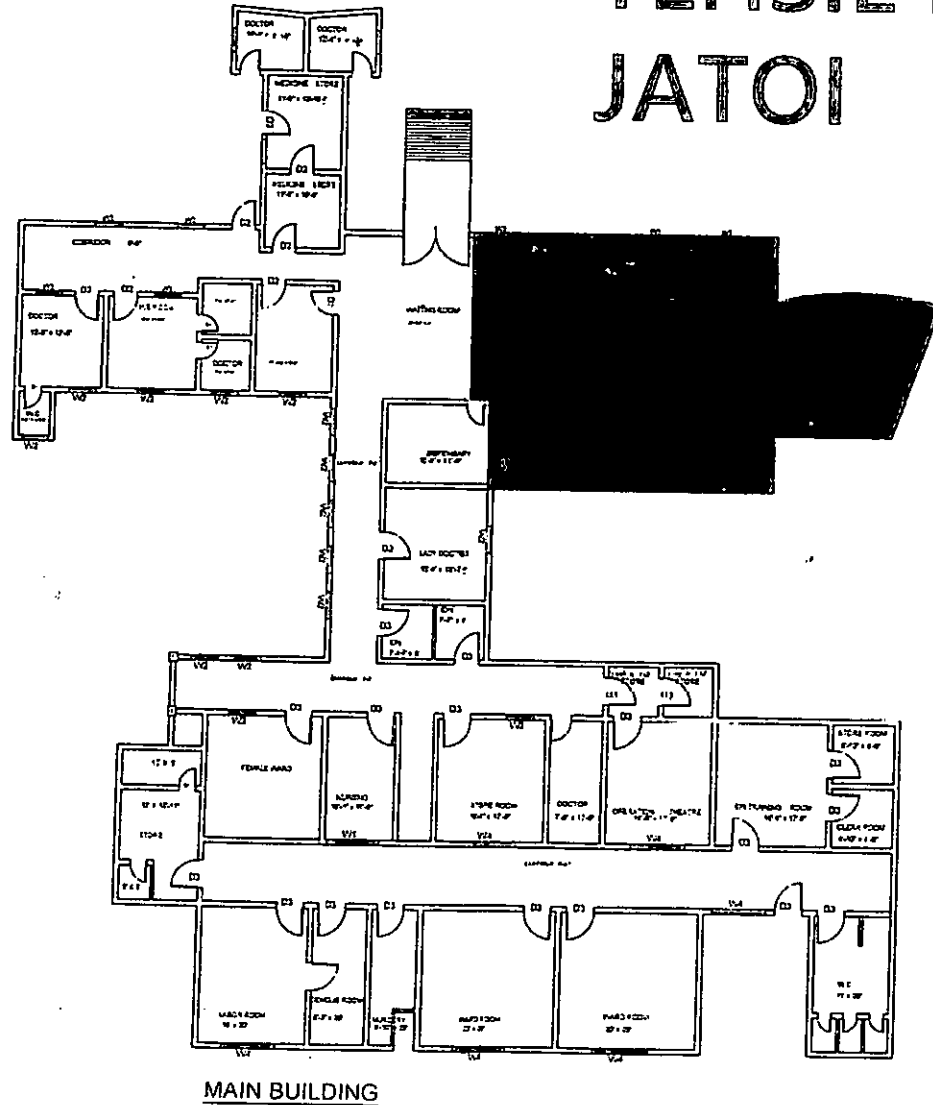
- 1 Certified that input rates of material and labour for the item at serial No. Nil are as per input rates displayed on web site of Finance Department for **2nd BI-Annual 2022**
- 2 Certified that rates for items at serial No. except all above are not available on the web site of Finance Department for **2nd BI-Annual-2022** and based on prevailing Market Rates.


SUB ENGINEER


SUB DIVISIONAL OFFICER
Buildings Sub Division
Ali Pur


EXECUTIVE ENGINEER
Buildings Division
Muzaffargarh

TEHSIL HEADQUARTER JATOI



3/Engr.

From

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

To

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

Memo No.76-Dev/2014/

1001

Dev.

Dated 12.01.2022


Subject:

**AMENDED ROUGH COST ESTIMATE FOR THE WORK
"REVAMPING OF TEHSIL HEAD QUARTERS HOSPITAL ONE AT
JATOI DISTRICT MUZAFFARGARH".**

Please find enclosed herewith a copy of amended rough cost estimate amounting to Rs. 60.881(M) duly vetted by the Chief Engineer for amended Administrative Approval.

The amended rough cost estimate has been prepared on the basis of rates meant for 1st Bi-annual, 2022.

DA/As Above.


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

Endst: No.

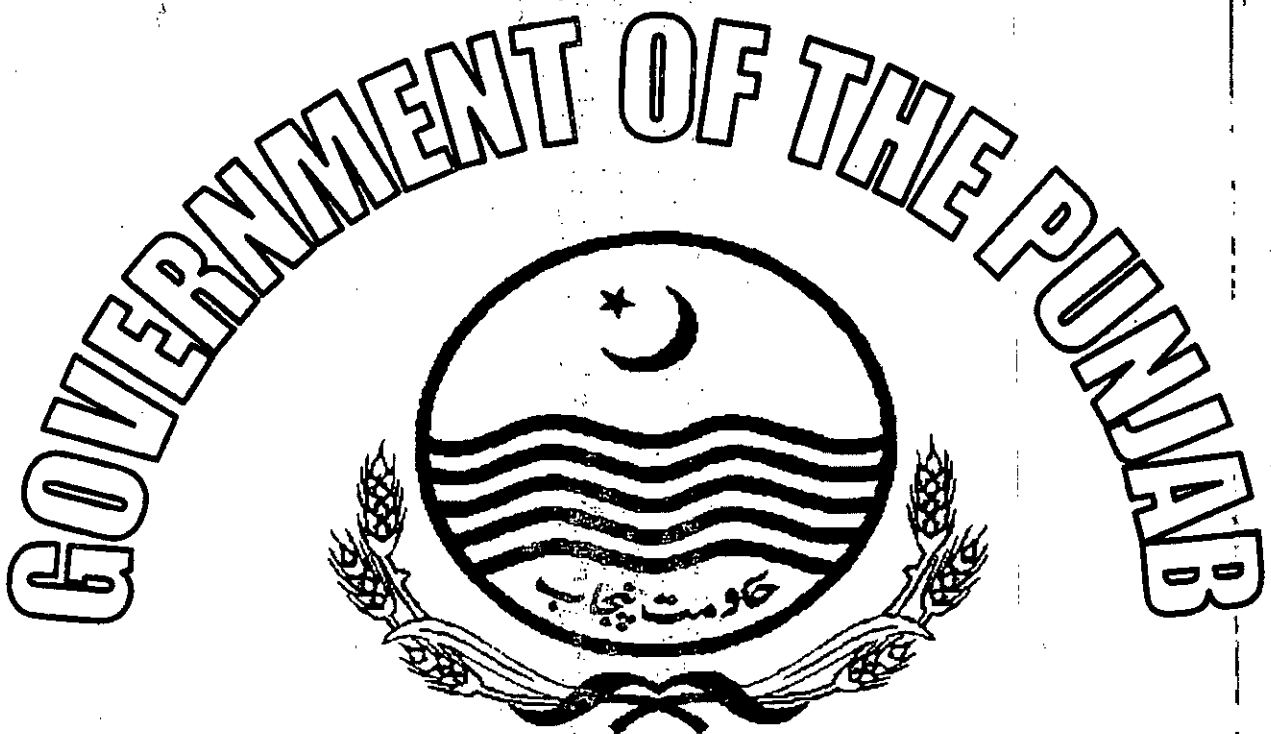
/Dev, Dated .01.2022.

A copy is forwarded for information to:-

1. The Superintending Engineer, Buildings Circle, D.G.Khan, for information with reference to his letter No.2416/DB, dated 11.01.2022.
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.



BUILDINGS CIRCLE
DERA GHAZI KHAN

BUILDINGS DIVISION
MUZAFFARGARH

AMENDED ROUGH COST ESTIMATE FOR
REVAMPING OF TEHSIL HEADQUARTERS
HOSPITALS ONE AT JATOI DISTRICT
MUZAFFARGARH

Amount Rs : ^{Rs 60.881 (M)} ~~62.604~~ (M)

BUILDINGS SUB DIVISION ALI PUR

PROVINCE: -

PUNJAB

CIRCLE:

BUILDINGS CIRCLE
DERA GHAZI KHAN

DIVISION:

BUILDINGS DIVISION
MUZAFFARGARH

SUB DIVISION:

BUILDINGS SUB DIVISION
MUZAFFARGARH

NAME OF WORK:

AMENDED ROUGH COST ESTIMATE
FOR REVAMPING OF TEHSIL
HEADQUARTERS HOSPITALS ONE
AT JATOI DISTRICT
MUZAFFARGARH

MAJOR HEAD:

MINOR HEAD:

Amount:

Rs 60.881 (M)
~~Rs 62.604 (M)~~

**ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT
MUZAFFARGARH**

Sr. No.	Name of work	Plinth area	Unit	Plinth area rates (1st BI-Annual 1st Jan to 30th June 2021)										Amounts	Remarks
				B.P	Extra for Strip/ isolated column footing	Extra cost for 1st 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		
A	NON RESIDENTIAL PORTION														
i)	Emergency Block	1800	P.Sft	2102	284					75	98	34	2593	✓ 4667400	P-Area rates issued by the Chief Engineer Prov: Bldgs: Deptt: south Zone Punjab Lahore, for the period 1st BI-Annual 1st Jan to 30th June 2021
	Extra Provisions														
1	ANALYSIS OF RATE FOR THE ITEM " PROVIDING & LAYING PORCELAIN TILES FLOORING: 24"x24"x3/8" GRANITE WITH DRY/WET/VENIED APPLICATION,DWV SERIES POLISHED (LIGHT COLOR)CLASS SB LAID IN WHITE CEMENT AND MATCHING PIGMENT OVER 3/4" THICK CEMENT SAND MORTAR (1:2) 1/4" FILLING JOINTS IN WHITE CEMENT AND MATCHING PIGMENT, COMPLETE IN ALL RESPECT.	1540	Sft	128									128	✓ 197516	Analysis Attached (224-117.7075)+21.9645= 128.257
2	ANALYSIS OF RATE FOR THE ITEM " PROVIDING & LAYING PORCELAIN TILES SKIRTING 24" X 24" X 3/8" GRANITE WITH DRY/WET/VENIED APPLICATION,DWV SERIES POLISHED (LIGHT COLOR)CLASS SB LAID IN WHITE CEMENT AND MATCHING PIGMENT OVER 3/4" THICK CEMENT SAND MORTAR (1:2) 1/4" FILLING JOINTS IN WHITE CEMENT AND MATCHING PIGMENT COMPLETE IN ALL RESPECT.	154	Sft	105									105	✓ 16173	Analysis Attached (237-131.93)= 105.07
3	ANALYSIS OF RATE FOR THE ITEM " PROVIDING AND LAYING GLAZED CERAMIC TILE FOR FLOORING SIZE 12"x36" MASTER/PAKISTAN TILES LAID OVER 3/4" THICK CEMENT SAND MORTER (1:2) 1/4" FILLING JOINTS IN WHITE CEMENT AND MATCHING PIGMENT 1/4" CUTTING CHARGES' COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE"	168	Sft	123									123	✓ 20707	Analysis Attached (219-117.7075)+21.9645= 123.257

AMENDED ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT MUZAFFARGARH

Sr. No.	Name of work	Plinth area	Unit	Rough Cost Estimate Plinth area rates (1st BI-Annual 1st Jan to 30th June 2021)						Amounts	Plinth area	Unit	Amended Rough Cost Estimate Plinth area rates (1st BI-Annual 1st Jan to 30th June 2022)						Amounts	Difference		Remarks	
				B.P	Extra for Strip/ isolated column footing	P.H	E.I	S.I	Total				B.P	Extra for Strip/ isolated column footing	P.H	E.I	S.I	Total		Excess	Saving		
A	NON RESIDENTIAL PORTION																						
i)	Medicine Store (62.25x42.25)=2630	2630	P.Sft	2102	284	75	98	34	2593	6819752	2630	P.Sft	2613	533	110	146	47	2916 2464	7669080 9076346	849328 2266594		P-Area rates issued by the Chief Engineer Provl Bldgs Deptt: south Zone Punjab Lahore, for the period 1st BI-Annual 1st Jan to 30th June 2022 BR3 Nil	
	Extra Provisions																						
1	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 (ii) 600mmx 600 mm	2400	Sft	128					128	307817	2400	Sft	302.25	-155.0	36.15				183.41	440179	132362	MRS Rates	
2	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 (ii) 600mm x600 mm	2800	Sft	105					105	294196	2800	Sft	302.25	-154.6					147.68	413517	119321	MRS Rates	
4	Providing and laying fair face Gutka cladding laid in (1:2) cement/red posso mortar having 1/4" thick groove finish i/c cost of BSWG wire in shape of 8 placed horizontally and vertically at 36"and18" c/c respectively i/c cutting charges as per approved drawing excluding cartage charges complete in all respect as approved and directed by the Engineer Incharge. i. 2-1/4" x 2-1/4" x 9"	3135	Sft	115					115	361655	3135	Sft	160.1	-28.169					131.93	413604	51949	MRS Rates	
ii	Revamping of Main Building	1	P.Job	17640000					17640000	17640000	1	P.Job	22571000						22571000	22571000	4931000	--do--	
ii	Provision of Approach Road	1	P.Job	8978700					8978700	8978700	1	P.Job	10749500						10749500	10749500	1770800	--do--	
i)	PIINSTALLATION OF R.O (REVERSE OSMOSIS) WATER PURIFICATION PLANT COMPLETE IN ALL RESPECT OF APPROVED QUALITY THE SPECIFICATION OF PURIFICATION PLANT CAPACITY 1000 L.P.H AS APPROVED BY THE ENGINEER INCHARGE	1	Job	2051500					2051500		1	Job	1694000						1617000 1694000	1617000 1694000	434500 367500	Analysis attached	
ii	PIINSTALLATION 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	Job	308000					308000		1	Job	308000						308000	308000	0	0	Detail attached
ii	Parking shed 65x30	1950	P.Sft	704					704	1372800	1950	P.Sft	895						895	1745389	372589	--do--	
iii	Provision of Sheds for Generators (20X20)*2=800	800	P.Sft	704					704	563200	800	P.Sft	895						895	716067	152857	--do--	
iv	Provision of Street Lights	1	P.Job	2208800					2208800	2208800	1	P.Job	3019200						3019200	3019200	810400	--do--	
ii	Boundary WALL 9" thick and 8' Height above Plinth level	1200	Rft	4636					4636	5563200	1070	Rft	6225						6225	6660750	1097550	--do--	

ii	Providing and fixing anti climb high security galvanized razor cut wire having double sharp four U-shaped pointed 0.5 mm thick (22mmx15 mm barbs) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1 1/2"x1 1/2"x3/16" embedded in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts, binding wire, painting of posts, etc. complete in all respects as approved and directed by the Engineer incharge. (i) 24" diameter	1200	Rft	460	460	552000	1200 1870	Rft	323	322.55	387600 245128.5	164400	206872	MRS Rates
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53706419

10%
Add 10% external Development Charges
= on

Add 5% P.S.T

Add 1% Tree Plantation

Rs. 14928063

Total = 47021620

Rs. 2239209

Rs. 49260829

2463041

Rs. 492608

52215479

52215000

52.215

Rs. 7669080/-

Rs. 9976599/-

Total = 88152679 14695482 564372 434500

Rs. 58668400/- 10452558/-

Rs. 766908 1472301

Rs. 59068389

54473327 5233508- 408724/-

Rs. 2053015

Rs. 2723566 287765- 81745/-

Rs. 544733 523353


57741727 60881426 60603923 10573000 1906801

57,742,000 60,881,426 62,603,000 10,573 1.907

Say 60,881 (M) 62,604 (M) 10.573

60,881 (M)

57,742 (M)


Sub. Engineer

$$AA = 52.215 \text{ (M)}$$


$$A.B.B = 60.881 \text{ (M)}$$

$$8.666 \text{ (M)}$$

$$\frac{8.666 \times 100}{52.215} = 16.60\% \text{ Excess}$$

Sul Divisional Officer
Buildings Sub Division
Ali Pur

Executive Engineer
Buildings Division
Muzaffargarh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

TECHNICALLY VETTED

For Rs. 60.881 (Million)

Chief Engineer
Punjab Buildings Deptt.
South Zone, Lahore.

Deputy Engineer
Punjab Buildings Deptt.
South Zone, Lahore.

Craftsman
Punjab Buildings Deptt.
South Zone, Lahore.

Medicine

DETAIL OF MASTE TILE 24"x24" FLOOR & SKIRTING

- 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 (ii) 600mmx 600 mm

Flooring

Ward 1 x 40 x 60 = 2400 Sft
Total = 2400 Sft

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 (ii) 600mm x600 mm

2 x 2 x (40 + 60)x 7 = 2800 Sft
Total = 2800 Sft

- Providing and laying fair face Gutka cladding laid in (1:2) cement/red posso mortar having 1/4" thick groove finish i/c cost of 8SWG wire in shape of 8 placed horizontally and vertically at 36"and18" c/c respectively i/c cutting charges as per approved drawing excluding carriage charges complete in all respect as approved and directed by the Engineer Incharge. i. 2-1/4" x 2-1/4" x 9"

1 x 2 X(42.250 + 62.25)X 15 = 3135 Sft
Total = 3135 Sft

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**ROUGH COST ESTIMATE FOR REVAMPING OF TERSIL
HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT
MUZAFFARGARH**

Revamping					
Sr. No.	Description	Qty	Unit	Rate	Amount
1	Scraping ordinary distempering or paint of wall	29682	%Sft	617.75	183361
2	Preparing surface and painting with emulsion paint Two coat	29682	%Sft	1781.37	528746
3	Painting doors and windows two coat surface including scraping	5229	%Sft	2242.30	117250
5	Providing applying weather shield paint two coat old surface on external wall of building	12910	%Sft	2962.10	382407
6	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	2398	P.Sft	302.25	724796
7	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 (ii) 600mm x600 mm	3692	P.Sft	302.25	1115907
8	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond over 3/4" thick (1:2)cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect sand as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	674	P.Sft	209.70	141338
9	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1285	P.Sft	209.65	269400
10	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness,with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer,cutting,grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. ii)	2127	P.Sft	314.25	668410
11	Removing door with chowkat	82	Each	362.35	29713
12	Removing windows and sky lights with chowkat.	116	Each	283.15	32845
13	Dismantling brick or flagged flooring without concrete foundation.	7246	%Sft	700.15	50733


14	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded i/c polythene sheet 500 gauge.	7246	%Sft	9459.15	685410.01
15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	30	Each	679.3	20379
16	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	3850	P. Sft	716.50	2758525
17	P/F all type of glazed aluminium windows of anodized champagne colour partly fixed and partly sliding using deluxe section of approved manufacturer having frame of size 100mm x 30mm using frame at bottom at top and side leaf leaf frame section of 60mmx23mm at top and bottom and size 45mmx25mm at center at sides jali leaf frame size 43mmx13mm i/c fine quality aluminium jali 5mm thick imported tinted glass with rubber gasket using approved standard latches wheel stopper brush channel angle joint and hardware etc 1.6 mm	5191	P. Sft	606.50	3148342
18	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	5191	P.Sft	410.7	2131944
19	P/F False ceiling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.	4288	P.Sft	150.00	643200
20	24. Supply and erection of fancy LED Panel light 2'x2' i/c LED Light & Driver 36 (W) (Philips / Alpha LED Ultra Slim) or Equivalent i/c fixing in false ceiling and electric connection complete in all respect as approved/ directed by the Engineer Incharge	20	Each	9500.00	190000
21	P/F of UPVC wall paneling UPVC section like plank, beading gola, angle gola 200 mm wide 9mm thick designed grooved planks fixed with inter locking system nails scrow on existing wall produced in plumbs using wooden strips (Anti termite) i/c carriage of material from market to site work complete in all respect as approved/ directed by the Engineer Incharge	1410	P.Sft	130.00	183300
22	P/F of Hydraulic Door Closer Best Quality i/c cost of nails and screws etc Complete in all respect as approved and directed by the Engineer Incharge.	50	Each	3500.00	175000
23	S/E of Twin core PVC insulated copper conductor cable in prelaid PVC pipe 7/0.044"	9840	P.Rft	245.65	2417196
24	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. Coloured	10	Each	2174.70	21747


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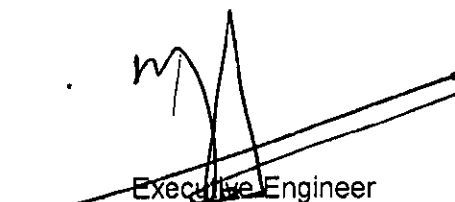
25	Providing and fitting glazed earthen ware, water closet European type, excluding seat and cover- coloured	3	Each	7020.75	21062
26	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete coloured	3	Each	2379.65	7139
27	i. P/L cutting jointing disinfecting G.I. pipe, line in trenches including all cost of Specials and valves 1/2" dia	200	P.Rft	146.55	29310
28	ii. do- 3/4" dia	150	P.Rft	188.55	28283
29	P-Area rates issued by the Chief Engineer, Provl. Bldgs. Deptt: south Zone Punjab Lahore, for the period 1st BI-Annual 1st Jan to 30th June 2021				
30	Electrification	18753	P.Sft	146.00	2737938
31	Sui Gas	18753	P.sft	110.00	2062830
32	PH	18753	P.sft	47.00	881391
				Total (A): -	22387902

20,325,072

	D/d cost of Old Material				
i	Old Doors with Chowkat	73	Each	2000	146000
ii	Old Windows	116	Each	2000	232000
ii	Tiles 9"x4-1/2"x1-1/2"	18766	Each	5	93830
ii	Tile Bats	906	Each	3	2718
				Total (B): -	474548
				Net Total (A-B): -	21913353.79
				Add 3% Contingency: -	657401
				Total: -	22570754.79
				Say: -	22571000


Sub Engineer


Sub Divisional Officer
Building Sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh

**ROUGH COST ESTIMATE FOR REVAMPING OF TEHSIL
HEADQUARTERS HOSPITALS ONE AT JATOI DISTRICT
MUZAFFARGARH**

Sr. No.	ITEM OF WORK	No	MEASUREMENTS			Qty.	
			L	B	H		
1	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 (ii) 600mmx 600 mm						
	GROUND FLOOR						
	Exam	5	7	5		175	Sft
	Dispencery	1	14	9.25		130	Sft
	X-Ray	1	16	14.5		232	Sft
	Medical Supdt	1	18	19.75		356	Sft
	Specialist	2	22	14		616	Sft
	M.O	1	15	12.5		188	Sft
	Dispencery	1	13	14.5		189	Sft
	D.Room & F/S	1	14	7		98	Sft
	Gynie	1	15	14		210	Sft
	Pantry	1	14	9.25		130	Sft
	Waiting	1	8	9.254		74	Sft
					Total	2398	Sft
2	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 (ii) 600mm x600 mm						
	GROUND FLOOR						
	Exam	5	2	7	5	600	Sft
	Dispencery	1	2	14	9.25	233	Sft
	X-Ray	1	2	16	14.5	305	Sft
	Medical Supdt	1	2	18	19.75	378	Sft
	Specialist	2	2	22	14	720	Sft
	M.O	1	2	15	12.5	275	Sft
	Dispencery	1	2	13	14.5	275	Sft
	D.Room & F/S	1	2	14	7	210	Sft
	Gynie	1	2	15	14	290	Sft
	Pantry	1	2	14	9.25	233	Sft
	Waiting	1	2	8	9.254	173	Sft
					Total	3692	Sft
3	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
	GROUND FLOOR						
	Toilet	1	6	4		24	Sft
		5	8	5		200	Sft
	Toilet	2	7	5		70	Sft
	Lav	1	33	11.5		380	Sft
					Total	674	Sft
4	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
	GROUND FLOOR						
	Toilet	1	6	4	7	70	Sft
		5	8	5	7	455	Sft
	Toilet	2	7	5	7	168	Sft
	Lav	1	33	11.5	7	312	Sft

(20

	Toilet	5	(4.5+3.5)	7		280	Sft
					Total	1285	Sft
5	P/F False ceiling (DAMPA) sheet 2'x2' imported fixed with Aluminum frame (TEE & L) hanged with 10 No wire with RCC roof slab i/c cost of Hook & Scaffolding, carriage charges complete in all respect & as approved by the Engineer Incharge.						
	GROUND FLOOR						
	Corridor 7' Wide	1	7	127		889	Sft
	Specialist	2	14	14		392	Sft
	Exam	5	7	5		175	Sft
	Dispencery	1	14	9.25		130	Sft
	Toward Stairs	1	4	9		36	Sft
	Under Stairs	1	15	9		135	Sft
	Corridor 7' Wide	1	10	7		70	Sft
	X-Ray	1	14	14.5		203	Sft
	Dispencery	1	14	14.5		203	Sft
	D.Room & F/S	1	14	7		98	Sft
	Pantry	1	14	9.25		130	Sft
	Ent. Hall	1	33	23		759	Sft
	Plate Form	1	25	6		150	Sft
	Veranda	1	21.75	9		196	Sft
	Medical Supdt	1	14	19.75		277	Sft
	M.O	1	14	12.5		175	Sft
	Gynie	1	14	14		196	Sft
	Waiting	1	8	9.254		74	Sft
					Total	4288	Sft
6	Preparing surface and painting with emulsion paint 3 coats i/c Scraping Ordinary distemper, oil bound distemper, or paint of wall.						
	GROUND FLOOR						
	Toward Stairs	1	(15+9)	7		168	Sft
	Pantry	1	(14+7)	7		147	Sft
	Ent. Hall	1	(14+9.25)	7		163	Sft
	Plate Form	1	(10+7)	7		119	Sft
	Veranda	1	(8+9.254)	7		121	Sft
	Medical Supdt	1	(14+15.5)	7		207	Sft
	M.O	1	(14+10)	7		168	Sft
	Gynie	1	(14+14)	7		196	Sft
	Waiting	1	(14+9.25)	7		163	Sft
	Strechur Space	1	(14+9.25)	7		163	Sft
	Under Stairs	1	(19+9)	7		196	Sft
	Laboratory	1	(14+9.25)	7		163	Sft
	E.P.I	1	(14+14)	7		196	Sft
	Platform	1	(6+9)	7		105	Sft
	Under Stairs	1	(7+127)	7		938	Sft
	Corridor 7' Wide	5	(7+5)	7		420	Sft
	X-Ray	1	(14+9.25)	7		163	Sft
	Dispencery	1	(14+14.5)	7		200	Sft
	D.Room & F/S	1	(14+14.5)	7		200	Sft
	Veranda 10' Wide	1	(10+94)	7		728	Sft
	Balcony	1	(10+9)	7		133	Sft
	5 Beds Ward	4	(19+19)	7		1064	Sft
	Nursing Station	1	(7+13)	7		140	Sft
	5 Beds Ward	1	(19+19)	7		266	Sft
	Corridor 7' Wide	1	(48+7)	7		385	Sft
	Reception	1	(10+12)	7		154	Sft
	Nursary	1	(14+19.75)	7		236	Sft
	Under Stairs	1	(19+9)	7		196	Sft
	Crush Hall	1	(33+28)	7		427	Sft
	Doctor Changing	1	(13.8+14)	7		194	Sft
	Exam	1	(4+7.625)	7		81	Sft
	Verandah 10' Wide	1	(10+94)	7		728	Sft
	Blood Transfusion	1	(14+9.25)	7		163	Sft
	Blood Bank	1	(14+9.25)	7		163	Sft
	Corridor 8' Wide	1	(58+8)	7		462	Sft
	Delivery Room	1	(19.3+14)	7		233	Sft
	N.Station	1	(9.25+7.625)	7		118	Sft

Recovery	1	(12+ 14)	7		182	Sft
5 Beds Ward	1	(19+ 19)	7		266	Sft
Corridor 7' Wide	1	(7+ 21)	7		196	Sft
Ramp	2	(60+ 10.25)	7		984	Sft
Corridor 7' Wide	1	(25+ 6)	7		217	Sft
Specialist	1	(21.8+ 9)	7		215	Sft
Exam	1	(33+ 23)	7		392	Sft
Dispencery	1	(4+ 9)	7		91	Sft
Toilet	1	(7+ 4)	5		55	Sft
	5	(7+ 5)	5		300	Sft
Toilet	2	(6+ 5)	5		110	Sft
Lav	1	(26+ 11.5)	5		188	Sft
Toilet	5	(4.5+ 3.5)	5		200	Sft
O.T	1	(19+ 20)	7		273	Sft
Prep+Sterilisation	1	(10+ 18)	7		196	Sft
Laboratory	1	(17.3+ 20)	7		261	Sft
Nursing Changing	1	(10.9+ 13.63)	7		172	Sft
Crush Hall	1	(33+ 28)	7		427	Sft
Doctor Changing	1	(13.8+ 14)	7		194	Sft
Exam	1	(4+ 7.625)	7		81	Sft
Verandah 10' Wide	1	(10+ 94)	7		728	Sft
Blood Transfusion	1	(14+ 9.25)	7		163	Sft
Blood Bank	1	(14+ 9.25)	7		163	Sft
N.S	1	(8+ 9)	7		119	Sft
Store	1	(14+ 9.25)	7		163	Sft
Bed	1	(14+ 9.25)	7		163	Sft
E.P.I	1	(14+ 14)	7		196	Sft
Plateform	1	(6+ 9)	7		105	Sft
Under Stairs	1	(7+ 127)	7		938	Sft
Corridor 7' Wide	5	(7+ 5)	7		420	Sft
X-Ray	1	(14+ 9.25)	7		163	Sft
Dispencery	1	(14+ 14.5)	7		200	Sft
D.Room & F/S	1	(14+ 14.5)	7		200	Sft
Veranda 10' Wide	1	(10+ 94)	7		728	Sft
Balcony	1	(10+ 9)	7		133	Sft
5 Beds Ward	4	(19+ 19)	7		1064	Sft
Nursing Station	1	(7+ 13)	7		140	Sft
Dr	4	(7.25+ 10)	7		483	Sft
Bed	1	(14+ 9.25)	7		163	Sft
Pantry	1	(14+ 9.25)	7		163	Sft
Corridor 7' Wide	1	(16+ 7)	7		161	Sft
2 Bed Ward	1	(14+ 22.5)	7		256	Sft
Corridor 7' Wide	1	(7+ 127)	7		938	Sft
2 Bed Ward	1	(14+ 19.25)	7		233	Sft
Bed	3	(14+ 9.25)	7		488	Sft
Bed	1	(14+ 10)	7		168	Sft
N.S	1	(14+ 9.25)	7		163	Sft
2 Beded Ward	1	(14+ 20.25)	7		240	Sft
Lav	1	(14+ 14)	7		196	Sft
Balcony	1	(6+ 11)	7		119	Sft
5 Beds Ward	4	(19+ 19)	7		1064	Sft
N.St.	1	(7+ 13)	7		140	Sft
Corridor 7' Wide	1	(48+ 7)	7		385	Sft
Corridor 7' Wide	1	(7+ 21)	7		196	Sft
Corridor 7' Wide	1	(50+ 15)	7		455	Sft
Ramp	2	(60+ 10.25)	7		984	Sft
Toilet	2	(5.38+ 6)	5		114	Sft
	1	(10+ 5)	5		75	Sft
	2	(4.5+ 6)	5		105	Sft
	1	(4+ 6)	5		50	Sft
	2	(6+ 4)	5		100	Sft
	4	(6+ 4.75)	5		215	Sft
Lav	1	(14+ 14)	5		140	Sft
	1	(6+ 5)	5		55	Sft
Lav	2	(11.5+ 11.5)	5		230	Sft
Toilet	12	(5+ 3.5)	5		510	Sft

		6	(4.5+3.5)	5		240	Sft
					Total	29682	Sft
7	Removing door with chowkat.						
	DW1	4				4	No.
	D	3				3	No.
	D3	28				28	No.
	D4	2				2	No.
	D5	41				41	No.
	D1	2				2	No.
	DW3	2				2	No.
					Total	82	No.
8	Removing windows and sky lights with chowkat.						
	W1	28				28	No.
	W2	25				25	No.
	W3	17				17	No.
	W4	18				18	No.
	V2	5				5	No.
	V3	6				6	No.
	V4	4				4	No.
	V5	11				11	No.
	V6	2				2	No.
					Total	116	No.
9	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. ii) 3/4" thick (12"x24"/12"x36")						
	W1	28	8	1.25		280	Sft
	W2	25	6	1.25		188	Sft
	W3	17	4	1.25		85	Sft
	W4	18	9	1.25		203	Sft
	W5	2	16	1.25		40	Sft
	W6	3	10	1.25		38	Sft
	W7	1	9.25	1.25		12	Sft
	W8	9	2.5	1.25		28	Sft
	Entrance Steps	4	36	1.125		162	Sft
	Platform	1	31	7		217	Sft
	Stair Steps	66	4.25	1.125		316	Sft
	Landings	6	8.5	5		255	Sft
		10	10	1.125		113	Sft
	Risers	66	4.25	0.5		140	Sft
		10	10	0.5		50	Sft
					Total	2127	Sft
10	P/L Non-Skidding Porcelain Tile Made of Approved Manufacturer Solo Executive on Dark Color Base. Plain / Texture (Glossy/Matt) SE Series Class SB 8"x10" Tile Laid in White Cement Over a Bed of 3/4" Thick C/S Mortar 1:2 I/C Filling of Joints with Matching Pigment Complete in all Respect & as Approved by The Engineer Incharge (For Ramps)						
	Ramp	4	55	10.25		2255	Sft
		1	40	6		240	Sft
		1	20	6		120	Sft
					Total	2615	Sft
11	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using deluxe 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.						
	DW1	4	11.5	9		414	Sft
	D	3	7	9		189	Sft
	D1	2	5	9		90	Sft
	DW2	1	8	9		72	Sft
	DW3	2	10	9		180	Sft
	D2	11	4	9		396	Sft
	D3	28	3.5	9		882	Sft

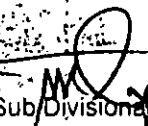
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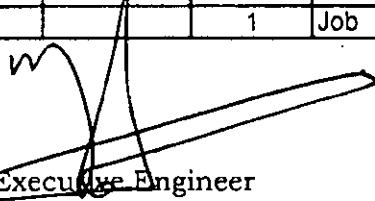
	D4	2	3	7			42	Sft
	D5	41	2.5	7			718	Sft
	For Lav.	6	3.5	7			147	Sft
	For Wards	10	8	9			720	Sft
						Total	3850	Sft
12	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc. complete in all respect. 1.6 mm thick							
	W1	28	8	6.5			1456	Sft
	W2	25	6	6.5			975	Sft
	W3	17	4	6.5			442	Sft
	W4	18	9	6.5			1053	Sft
	W5	2	16	6.5			208	Sft
	W6	3	10	6.5			195	Sft
	W7	1	9.25	6.5			60	Sft
	W8	9	2.5	6.5			146	Sft
	V1	28	4	2.5			280	Sft
	V2	5	3	4.5			68	Sft
	V3	6	2.5	2.5			38	Sft
	V4	4	8	2.5			80	Sft
	V5	11	6	2.5			165	Sft
	V6	2	5	2.5			25	Sft
						Total	5191	Sft
13	Dismantling brick or flagged flooring without concrete foundation.							
		1	156.75	100.75			15793	Sft
	D/d	21	21.75	12.75			-277	Sft
		1	9.75	12.25			-119	Sft
		2	37.75	12			-906	Sft
						Total	14491	Sft
	Take 50% Qty	14491	50%				7246	Sft
14	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded i/c polythene sheet 500 gauge.							
	Same Qty as per Item No. 13						7246	Sft
15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)							
							30	No.
16	Supply and erection of fancy LED Pannell light 2'x2' i/c LED Light & Driver 36 (W) (Philips / Alpha LED Ultra Slim) or Equivalent i/c fixing in false ceiling and electric connection complete in all respect as approved/ directed by the Engineer Incharge							
							20	No.
17	P/F of M.S Grill to Windows using 1/2"x1/2" Sq Bar @ 4" C/C vertically in two parts with 2 No. Horizontal Lknow for using sliding of windows 1"x1"x1/8" angle iron frame alaround i/c painting 3 coats hold fast complete in all respect, as approved and directed by the Engineer							
	W1	28	8	6.5			1456	Sft
	W2	25	6	6.5			975	Sft
	W3	17	4	6.5			442	Sft
	W4	18	9	6.5			1053	Sft
	W5	2	16	6.5			208	Sft
	W6	3	10	6.5			195	Sft
	W7	1	9.25	6.5			60	Sft
	W8	9	2.5	6.5			146	Sft
	V1	28	4	2.5			280	Sft
	V2	5	3	4.5			68	Sft
	V3	6	2.5	2.5			38	Sft
	V4	4	8	2.5			80	Sft
	V5	11	6	2.5			165	Sft
	V6	2	5	2.5			25	Sft

(24)

						Total	5191	Sft
18	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured							
		3					3	No.
						Total	3	No.
20	P/F of UPVC wall paneling UPVC section like plank, beading gola, angle gola 200 mm wide 9mm thick designed grooved planks fixed with inter locking system nails scrow on existing wall produced in plumbs using wooden strips (Anti termite) i/c carriage of material from market to site work complete in all respect as approved/ directed by the Engineer Incharge							
	Medical Supdt	1	(14+ 19.75)	7			236	Sft
	M.O	1	(14+ 12.5)	7			186	Sft
	Specialist	2	(14+ 14)	7			392	Sft
	Specialist	1	(14+ 14.5)	7			200	Sft
	Gynie	1	(14+ 14)	7			196	Sft
	Child Specialist	1	(14+ 14.5)	7			200	Sft
						Total	1410	Sft
21	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect old surface two coats.							
	Front Side	1	102.25	29			2965	Sft
	Right Side	1	46.5	29			1349	Sft
		4	60	25			6000	Sft
		1	62.125	34			2112	Sft
						Total	12426	Sft
	Take 30% Qty	1	12426	30%			3728	Sft
	Back Side	1	158.25	29			4589	Sft
		1	102.25	29			2965	Sft
		1	12.25	29			355	Sft
		1	11.75	29			341	Sft
		1	14.125	29			410	Sft
		1	18	29			522	Sft
						Total	12910	Sft
22	S/E of Twin core PVC insulated copper conductor cable in prelaidd PVC pipe 7/0.044"							
	For A.Cs	60	164				9840	Rft
						Total	9840	Rft
23	Electrification + Public Health + Sui Gas (Plinth Area Rates 2nd BI Annual 2020 Notified Vide Chief Engineer Punjab Building Department Lahore (NZ) No. CEBNZ/190/D, Dated 15.01.2021 for 1st BI Annual Period 1st January-2021 to 30th June 2021							
i	Covered Area for Electrification						18753	Sft
ii	Covered Area for Public Health						18753	Sft
iii	Covered Area for Sui Gas						18753	Sft
	Deduction of Old Material							
1	Old Doors with Chowkat							
	Same Qty as per Item No. 7						82	No.
2	Old Windows							
	Same Qty as per Item No. 8						116	No.
3	Tiles 9"x4-1/2"x1-1/2"							
	Take 70% Qty as per Item No. 13	1	7246	70%	5072	Sft		
	In Numbers	1	5072	3.7			18766	No.
4	Tile Bats							
	Take 30% Qty as per Item No. 13	1	7246	30%	2174	Sft		
		1	7246	0.125			906	Cft
5	Electric Cables (Unserviceable)							
							1	Job



Sub Engineer



Sub Divisional Officer
Building Sub Division
Ali Pur

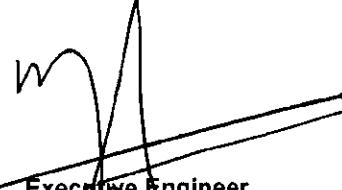

Executive Engineer
Buildings Division
Muzaffargarh

PROVISION OF APPROACH ROAD

S.No	Description								Amount.
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.								
	2	1600	2	1		6400	Cft		
					Total:	6400	Cft		
					@ Rs.	8,727.85	%Cft		55858
2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.								
	2	1600	2	0.5		3200	Cft		
					Total:	3200	Cft		
					@ Rs.	4,474.80	%Cft		143194
3	Supplying and filling sand under floor, or plugging in wells.								
	1	1600	10	0.333		5328	Cft		
					Total:	5328	Cft		
					@ Rs.	2743.2	%Cft		146158
4	Providing, laying, watering and ramming brick ballast 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.								
	1	1600	10	0.333		5328	Cft		
					Total:	5328	Cft		
					@ Rs.	5161.3	%Cft		274994
5	Filling, watering and ramming earth under floors: -i) with surplus earth from foundation, etc								
	1	6400	x2/3			4267	Cft		
					Total:	4267	Cft		
					@ Rs.	4,197.60	%Cft		179098
6	Filling, watering and ramming earth under floors: -ii) with new earth excavated from outside lead upto 3 Mile								
	1	1600	10	2		32000	Cft		
					Total:	32000	Cft		
					@ Rs.	15,177.05	%Cft		4856656
7	Pucca brick work in 1:6 cement sand mortar in foundation and plinth								
	2	1600.000	1.5	0.25		1200	Cft		
	2	1600.000	1.125	3		10800	Cft		
					Total:	12000	Cft		
					@ Rs.	22294.2	%Cft		2675304
8	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured) 60-mm thick								
	1	1600.0	10			16000	Sft		
					Total:	16000	Sft		
					@ Rs.	126.15	P.Sft		2018400
9	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) Ratio 1: 2: 4								
	2	1600.00	0.75	0.125		300	Cft		
					Total:	300	Cft		
					@ Rs.	28918.55	%Cft		86756
							Total:-		10436418
	Add 3% Contingency								313093
							Grand Total:-		10749511
							Say:-		10749500


Sub. Engineer


Sub Divisional Officer
Buildings Sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh

ANALYSIS OF RATES


P/INSTALLATION OF R.O (REVERSE OSMOSIS) MADE FILTREX WATER PURIFICATION PLANT COMPLETE IN ALL RESPECT OF APPROVED QUALITY THE SPECIFICATION OF PURIFICATION NO PLANT CAPACITY 3000 L.P.H AS APPROVED BY THE ENGINEER INCHARGE.

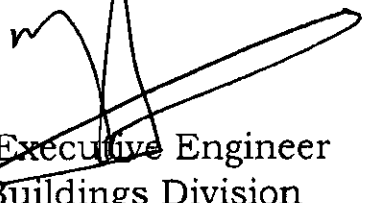
<u>Cost:</u>	<u>1540000 /-</u>
Add 10% Contractor Profit	<u>154000</u>
<u>Cost:</u>	<u>1694000 /-</u>

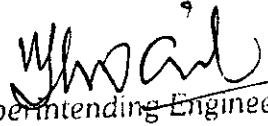
CERTIFICATE

Certified that rates for items at serial No. 1-10, are not available on the Website of Finance Department for the 1st BI-Annual 1st Jan to 30th June 2022 and as such the rate of Rs. 2051500/- has been applied after ascertaining it from the market.


Sub. Engineer


Sub Divisional Officer
Buildings Sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

ANALYSIS OF RATES


P/INSTALLATION OF R.O (REVERSE OSMOSIS) MADE SAFE WATER TECH
OR EQUIVELENT WATER CHILLAR UNIT 200 L.P.H COMPLETE IN ALL
RESPECT OF APPROVED QUALITY THE SPECIFICATION OF
PURIFICATIONO PLANT CAPACITY 2 TON AS APPROVED BY THE
ENGINEER INCHARGE.


Make: Safe Water Tech
Outer Unit New Machine
Machine Make: Orient / Haier
Capacity: 2 Ton
Chilled Water Tank": 200 Liters
Tank Type: Vertical Insulated
Control: Digital Meters Panel Mounted
Quantity: 01-No.


Unit Price: 280,000
Add 10% Contractor Profit: 28000
Total: 308,000


CERTIFICATE

Certified that rates for items at serial No. 1-10, are not available on the Website of Finance Department for the 1st BI-Annual 1st Jan to 30th June 2022 and as such the rate of Rs: 308000/- has been applied after ascertaining it from the market.


Sub. Engineer


Sub Divisional Officer
Buildings Sub Division
Ali-Pur


Executive Engineer
Buildings Division
Muzaffargarh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

DETAILED OF FIBER GLASS SHED.

S.No	Description of items	No	Length	Breadth	Height	QTY	Amount
	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around 17.1 to 17.5 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.						
1	L/Wall	2 x	100 x	2 x	2.5	1000 Cft	
	S/Wall	2 x	28 x	2 x	2.5	280 Cft	
	Step	3 x	5 x	3.375 x	2.5	127 Cft	
					Total:	1407 Cft	
					@	8,727.85 %Cft	12276
2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	L/Wall	2 x	100 x	2 x	0.5	200 Cft	
	S/Wall	2 x	28 x	2 x	0.5	56 Cft	
	Step	3 x	5 x	3.375 x	0.5	25 Cft	
					Total:	281 Cft	
					@	4,474.80 %Cft	12588
3	Pacca brick work in F&P:-i) cement, sand mortar:-Ratio 1:6						
	L/Wall	2 x	100 x	1.125 x	0.25	56 Cft	
	L/Wall	2 x	100 x	0.75 x	4.5	675 Cft	
	S/Wall	2 x	26.5 x	1.125 x	0.25	15 Cft	
	S/Wall	2 x	26.5 x	0.75 x	4.5	179 Cft	
	Step	3 x	5 x	3.375 x	1	51 Cft	
	Step	3 x	5 x	2.25 x	0.5	17 Cft	
	Step	3 x	5 x	1.125 x	0.5	8 Cft	
					Total:	1001 Cft	
					@	22,294.20 %Cft	223158
4	Filling, watering and ramming earth under floors:-i) with surplus earth from foundation, etc						
	taking same Qty of item						
	No 1	1 x	1407 x			1407 Cft	
					Total:	1407 Cft	
					@	4,197.60 %Cft	5904
5	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto 3 Mile						
	L/Wall	1 x	98.5 x	26.5 x	2	5221 Cft	
					Total:	5221 Cft	
	Deduction Surplus				(-)	1407 Cft	
					Total:	3814 Cft	
					@	15,177.05 %Cft	57884
6	Supplying and filling sand under floor; or plugging in wells						
	Floor	1 x	98.5 x	26.5 x	0.33	861 Cft	
					Total:	861 Cft	
					@	2743.2 % Cft	23629

7 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.

Floor	1 x	98.5 x	26.5 x	0.33	861 Cft	
				Total:	861 Cft	
		@		5161.3	% Cft	44459

8 Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope, complete in all respect. (50% Grey / 50% Coloured) a) 60-mm thick

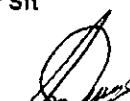
	1 x	100 x	28 x		2800 Sft	
				Total:	2800 Sft	
		@		126.15	PSft	353220

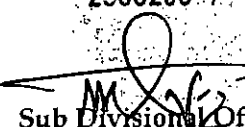
9 Providing and fixing Fiber glass shed consisting vertical post of G.I pipe 3" dia medium quality 10' above floor level and 2'-6" box pipe embedded in cement concrete 1:2:4 below floor level or fixed with bottom steel plate 6"x6" i/c rowel bolts provided with top frame of M.S 1"x1", gauge 18 SWG with 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.

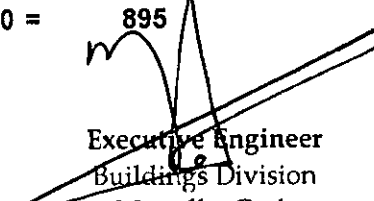
	1 x	100 x	28 x		2800 Sft	
				Total:	2800 Sft	
		@		607	P.Sft	1700040
					Total	2433159
					(+)	72995
					Total	2506153
					Say Rs.	2506200

Add 3% Contangency

Rate Per Sft


Sub Engineer

2506200 / 2800 = 895

Sub Divisional Officer
Buildings sub Division
Ali Pur

895

Executive Engineer
Buildings Division
Muzaffar Garh

ANALYSIS OF RATES

Providing and fixing Fiber glass shed consisting vertical post of G.I pipe 3" dia medium quality 10' above floor level and 2'-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.

Take Analysis 15.75'x19.25' = 303 Sft

<u>Material:-</u>									
1	G.I pipe 3" dia (medium quality) (MRS)	4x10 = 40	Rft						
		Total 40	Rft						
			40.00 Rft	@	941.10 P.Rft	Rs.	37644		
2	M.S. box pipe 1 1/2"x1 1/2" gauge 18 SWG								
	Trusses longer side bottom /top	2x1x21.25 = 42.5	Rft						
		2x1x19.25 = 38.5	Rft						
		2x9x1.28 = 23.04	Rft						
	Trusses Shoter side bottom /top								
		2x2x15.75 = 63	Rft						
		2x11x.75 = 16.5	Rft						
		Total 183.54	Rft						
	Add 5% wastage	9.18	Rft						
		Total 192.72	Rft						
				@	98 P.Rft	Rs.	18886		
2	M.S. box pipe 1"x1" gauge 18 SWG								
	Frame/ Perlin	9x19.25 = 173.25	Rft						
		9x15.75 = 141.75	Rft						
		Total 315	Rft						
	Add 5% wastage	15.75	Rft						
		Total 330.75	Rft						
				@	70 P.Rft	Rs.	23153		
4	Fiber glass sheet 3-ply 2mm								
		19.25x15.75 = 303.1875	Sft						
	Add 10% wastage over lap	30.32	Sft						
		Total 333.51	Sft						
			333.51 Sft	@	180.00 P Sft	Rs.	60031		
5	Cost of revits		L.S				200		
6	Excavation in foundation								
		4x1x1x2	8.00 Cft	@	8,727.85 %Cft	Rs.	70		
8	Plain cement concrete 1:2:4								
		4x1x1x2 = 8 Cft							
		Total 8 Cft							
			8.00 Cft	@	28918.55 %Cft	Rs.	2313		
9	Painting length of pipes								
		4x14.50x0.25x3.142 = 45.559 Sft							
		Total 45.56 Sft							
			45.56 Sft	@	2242.3 %Sft	Rs.	1022		
10	Welding Rods								

Labour

Welder/Blocksmith LB-028

Helper LB-061

Add 10% Sundries Charges

Add 20% contractor profit expect MRS item No.1,6,7,8 & 9


3.00 Bundle @	350 Each	Rs.	1050
	(A)		144369
4 No. @	1050 P.Day	Rs.	4200.00
4 No. @	780 P.Day	Rs.	3120.00
		Rs.	7320.00
		Rs.	732.00
	(B)	Rs.	8052.00
	(A+B)	Rs.	152420.76
		Rs.	25172.68
		Rs.	177593.44


$$\text{Rate} = \frac{177593.44}{292.5} = 607 \text{ P.Sft}$$


Say Rs. 607 P.Sft


CERTIFICATE

- 1 Certified that input rates of material and labour for the item at serial.No.1-(I & II) are as per MRS rates displayed on web site of Finance Department for 1st BI-Annual 1st January to 30th June 2022.
- 2 Certified that rates for items at serial No.2 labour are available in the input rate web site of Finance Department for 1st BI-Annual 1st January to 30th June 2022 & as such the rate of Rs.448/- P.Rft has been applied after ascertaining it, form the market.


Sub Engineer


Sub Divisional Officer
Buildings sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffar Garh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

DETAILED OF FIBER GLASS SHED.

S.No	Description of items	No	Length	Breadth	Height	QTY	Amount
Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around 17.1 to 17.5 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.							
1	L/Wall	2 x	100 x	2 x	2.5	1000 Cft	
	S/Wall	2 x	28 x	2 x	2.5	280 Cft	
	Step	3 x	5 x	3.375 x	2.5	127 Cft	
	Total:					1407 Cft	
	@				8,727.85	%Cft	12276
2 Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.							
	L/Wall	2 x	100 x	2 x	0.5	200 Cft	
	S/Wall	2 x	28 x	2 x	0.5	56 Cft	
	Step	3 x	5 x	3.375 x	0.5	25 Cft	
	Total:					281 Cft	
	@				4,474.80	%Cft	12588
3 Pacca brick work in F&P:-i) cement, sand mortar:-Ratio 1:6							
	L/Wall	2 x	100 x	1.125 x	0.25	56 Cft	
	L/Wall	2 x	100 x	0.75 x	4.5	675 Cft	
	S/Wall	2 x	26.5 x	1.125 x	0.25	15 Cft	
	S/Wall	2 x	26.5 x	0.75 x	4.5	179 Cft	
	Step	3 x	5 x	3.375 x	1	51 Cft	
	Step	3 x	5 x	2.25 x	0.5	17 Cft	
	Step	3 x	5 x	1.125 x	0.5	8 Cft	
	Total:					1001 Cft	
	@				22,294.20	%Cft	223158
4 Filling, watering and ramming earth under floors:-i) with surplus earth from foundation, etc							
	taking same Qty of item						
	No 1	1 x	1407 x			1407 Cft	
	Total:					1407 Cft	
	@				4,197.60	%Cft	5904
5 Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto 3 Mile							
	L/Wall	1 x	98.5 x	26.5 x	2	5221 Cft	
	Total:					5221 Cft	
	Deduction Surplus				(-)	1407 Cft	
	Total:					3814 Cft	
	@				15,177.05	%Cft	57884
6 Supplying and filling sand under floor; or plugging in wells							
	Floor	1 x	98.5 x	26.5 x	0.33	861 Cft	
	Total:					861 Cft	
	@				2743.2	% Cft	23629

7 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.

Floor	1 x	98.5 x	26.5 x	0.33	861 Cft	
				Total:	861 Cft	
			@	5161.3	% Cft	44459

8 Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope, complete in all respect. (50% Grey / 50% Coloured) a) 60-mm thick

	1 x	100 x	28 x		2800 Sft	
				Total:	2800 Sft	
			@	126.15	PSft	353220

9 Providing and fixing Fiber glass shed consisting vertical post of G.I pipe 3" dia medium quality 10' above floor level and 2'-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.


	1 x	100 x	28 x		2800 Sft	
				Total:	2800 Sft	
			@	607	P.Sft	1700040

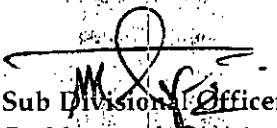
Add 3% Contangency

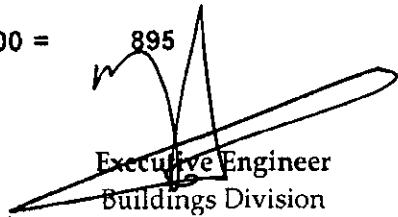
Total	2433159
(+)	72995
Total	2506153
Say Rs.	2506200

Rate Per Sft

2506200 / 2800 = 895


Sub Engineer


Sub Divisional Officer
Buildings sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffar Garh

ANALYSIS OF RATES

Providing and fixing Fiber glass shed consisting vertical post of G.I pipe 3" dia medium quality 10' above floor level and 2'-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.

Take Analysis 15.75'x19.25' = 303 Sft

Material:-

- 1 G.I pipe 3" dia (medium quality) (MRS)

$$\begin{array}{rcl} 4 \times 10 & = & 40 \\ \text{Total} & & 40 \end{array}$$

Rft
Rft
40.00 Rft @ 941.10 P.Rft Rs. 37644

- 2 M.S. box pipe 1 1/2"x1 1/2" gauge 18 SWG
Trusses longer side bottom /top

$$\begin{array}{rcl} 2 \times 1 \times 21.25 & = & 42.5 \\ 2 \times 1 \times 19.25 & = & 38.5 \\ 2 \times 9 \times 1.28 & = & 23.04 \end{array}$$

Rft
Rft
Rft

Trusses Shoter side bottom /top

$$\begin{array}{rcl} 2 \times 2 \times 15.75 & = & 63 \\ 2 \times 11 \times 7.5 & = & 16.5 \\ \text{Total} & & 183.54 \end{array}$$

Rft
Rft
Rft

Add 5% wastage

$$\begin{array}{rcl} & & 9.18 \\ \text{Total} & & 192.72 \end{array}$$

Rft
Rft

@ 98 P.Rft Rs. 18886

- 2 M.S. box pipe 1"x1" gauge 18 SWG
Frame/Perlin

$$\begin{array}{rcl} 9 \times 19.25 & = & 173.25 \\ 9 \times 15.75 & = & 141.75 \\ \text{Total} & & 315 \end{array}$$

Rft
Rft
Rft

Add 5% wastage

$$\begin{array}{rcl} & & 15.75 \\ \text{Total} & & 330.75 \end{array}$$

Rft
Rft

@ 70 P.Rft Rs. 23153

- 4 Fiber glass sheet 3-ply 2mm

$$19.25 \times 15.75 = 303.1875$$

Sft

Add 10% wastage over lap

$$30.32$$

Sft

$$\text{Total} = 333.51$$

Sft

333.51 Sft @ 180.00 P Sft Rs. 60031

- 5 Cost of revits

L.S

200

- 6 Excavation in foundation

$$4 \times 1 \times 1 \times 2 = 8$$

8.00 Cft

@ 8,727.85 %Cft Rs. 70

- 8 Plain cement concrete 1:2:4

$$4 \times 1 \times 1 \times 2 = 8 \text{ Cft}$$

8 Cft

$$\text{Total} = 8 \text{ Cft}$$

8.00 Cft

@ 28918.55 %Cft Rs. 2313

- 9 Painting length of pipes

$$4 \times 14.50 \times 0.25 \times 3.142 = 45.559 \text{ Sft}$$

45.56 Sft

$$\text{Total} = 45.56 \text{ Sft}$$

45.56 Sft

@ 2242.3 %Sft Rs. 1022

- 10 Welding Rods

13

Labour

Welder/Blocksmith LB-028

Helper LB-061

Add 10% Sundries Charges

Add 20% contractor profit expect MRS item No.1,6,7,8 & 9


3.00 Bundle @	350 Each	Rs.	1050
(A)			<u>144369</u>
4 No. @	1050 P.Day	Rs.	4200.00
4 No. @	780 P.Day	Rs.	3120.00
			Rs. 7320.00
			Rs. 732.00
(B)			Rs. 8052.00
(A+B)			Rs. 152420.76
			Rs. 25172.68
			<u>Rs. 177593.44</u>

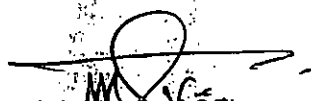
$$\text{Rate} = \frac{177593.44}{292.5} = 607 \text{ P.Sft}$$

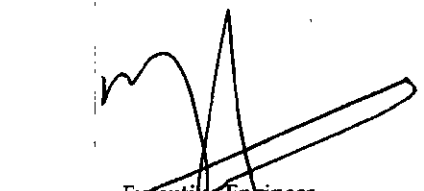
Say Rs. 607 P.Sft

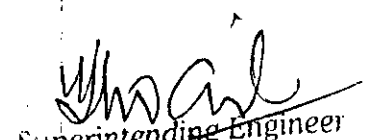
CERTIFICATE

- 1 Certified that input rates of material and labour for the item at serial No.1 (I & II) are as per MRS rates displayed on web site of Finance Department for 1st BI-Annual 1st January to 30th June 2022.
- 2 Certified that rates for items at serial No.2 labour are available in the input rate web site of Finance Department for 1st BI-Annual 1st January to 30th June 2022 & as such the rate of Rs.448/- P.Rft has been applied after ascertaining it, from the market.


Sub Engineer

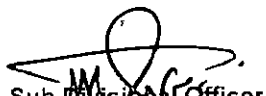

Sub Divisional Officer
Buildings sub Division
Ali Pur

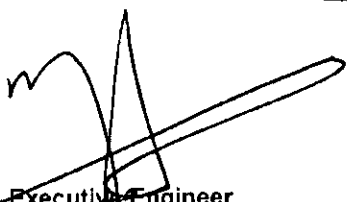

Executive Engineer
Buildings Division
Muzaffar Garh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

ELECTRIFICATION OF STREET LIGHTS

1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials 50 mm i/d								
		1	800.00				800	Rft	
						@ Rs.	157.45	P. Rft	125960
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 an capping/G.I. wire/trenches (rate for cables only) 250/440 volts, PVC insulated 19/1.63 mm (19/0.064")						1640	Rft	
						@ Rs.	334.95	P. Rft	549318
3	P/F Of Tubular Electric Street Light Poles 4" Dia 15', 3" Dia 10' & 1-1/4" Dia 7' On Concrete Footing By Means Plates & Nut Bolts Complete In All Respect As Approved By The Engineer Incharge						20	No.	
						@ Rs.	82400.00	Each	1648000
4	Earthing with 8 SWG Copper wire i/c copper strip 60x10mm and G.I Pipe 3/4" dia 100' long complete with sockets 105ft below from ground level i/c making bore hole and filling with salt and charcoal mixture etc. complete in all respect as approved and directed by the Engineer Incharge.						2	No.	
						@ Rs.	33200.00	Each	66400
5	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG 19/2.11 mm (19/0.083")						130	Rft	
						@ Rs.	2605.05	P. Rft	338657
6	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (i) 20~60A (18"x24"x6")						1	No.	
						@ Rs.	41912.65	Each	41913
7	S/E Of L.E.D Flood Light 50 Watt, Philips Made I/C High Class Plustic Cover And Clamp Light Size 12x12" I/C Fixing At Height Of 18' Above Perimeter Meter Well Making Connection With Existing Live Wire Complete.In All Respect I/C Fixing At:Site With Nutt And Bolt As Approved / Directed By The Engineer Incharge						10	No.	
						@ Rs.	16100.00	Each	161000
								Total:-	2931248
								Add 3% Contingency:-	87937
								Total:-	3019185
								Say	3019200


 Sub Divisional Officer
 Buildings Sub Division
 Ali Pur


 Executive Engineer
 Buildings Division
 Muzaffargarh

(37)

ANALYSIS OF RATES FOR P/F OF TUBULAR ELECTRIC STREET LIGHT POLES 4" DIA 15', 3" DIA 10' & 1-1/4" DIA 7' ON CONCRETE FOOTING BY MEANS PLATES & NUT BOLTS COMPLETE IN LL RESPECT AS APPROVED BY THE ENGINEER INCHARGE

BI Annual Period 1st Jan 2022 to 30 June 2022

1	Excavation in foundation of building, bridges and other structures, 1x2-1/2'x2-1/2'x3'	=	19	Cft	
		@	8727.85	%Cft	Rs. 166/-
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in F&P ratio 1:6:12.				
	1x2-1/2'x2-1/2'x1/2'	=	3	Cft	
		@	14069.10	%Cft	Rs. 422/-
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): ratio 1:2:4				
	1x2'x2'x2-1/2'	=	10	Cft	
		@	28918.55	%Cft	Rs. 2892/-
4	P/L G.I pipe i/c laying cutting jointing testing complete 4 dia. Light quality				
	1x15		15	Rft	
		@	1357.85	P.Rft	Rs. 20368/-
ii	---do--- 3" dia				
	1x10		10	Rft	
		@	941.10	P.Rft	Rs. 9411/-
iii	---do--- 1-1/4" dia				
	1x7		7	Rft	
		@	359.85	P.Rft	Rs. 2519/-
5	Fabrication of heavy 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.				
	M.S Plate 1/2" thick 2x2x2 = 8 Sft				
	19.26 Kg /P.Sft	=	74	Kg	
	Nuts and Bolts	=	10	Kg	
	Total:-		84	Kg	
		@	13867.70	%Kg	Rs. 11649/-
6	P/F LED Street light 80 watt i/c plastic cover of top and semi plastic glass type cover at bottom complete light tempo type.(Philips Made)				
		=	1	No	
		@	35000.00	Each	Rs. 35000/-

Total:- Rs. 82426/-
Say: Rs. 82400/-

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Department for the 1st BI-ANNUAL-2021 (1st JANUARY-2022 to 30th JUNE -2022)
DISTRICT Muzaffargarh

S/Engg.

Sub Divisional Officer
Buildings Sub Division
Ali Pur

Executive Engineer
Buildings Division
Muzaffargarh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

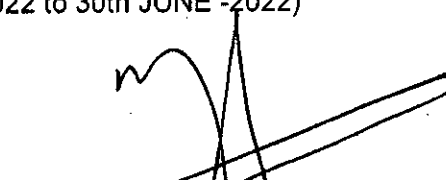
ANALYSIS RATE FOR S/E OF L.E.D FLOOD LIGHT 50 WATT, PHILIPS MADE I/C HIGH CLASS PLUSTIC COVER AND CLAMP LIGHT SIZE 12X12" I/C FIXING AT HEIGHT OF 18' ABOVE PERIMETER METER WELL MAKING CONNECTION WITH EXISTING LIVE WIRE COMPLETE.IN ALL RESPECT I/C FIXING AT SITE WITH NUTT AND BOLT AS APPROVED / DIRECTED BY THE ENGINEER INCHARGE

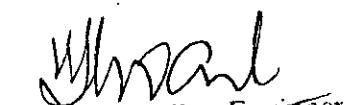
		Unit: Each			
Sr.#	Description	Qty	Rate	Unit	Amount
P-1	MATERIAL				
i.	Flood light L.E.D 50 watt (Philips made)	1	11000	Each	Rs. 11000 /-
ii.	Making connection	L.S			Rs. 850 /-
iii.	Cable 07/0.036 twin core	15	88.3	P.Rft	Rs. 1325 /-
iv.	Cost of column 1 1/4" x 1/8" M.S flat 12" long	2	250	Each	Rs. 500 /-
			Total		Rs. 13675 /-
	Add 20% Contractor Profit with once head changes except item No. III.				Rs. 2470 /-
			G.Total:		Rs. 16145 /-
			Say:		Rs. 16100 /-

Certified that Rates for material and labour are as per input rates as displayed on the web site of Finance Dapartment for the 1st BI-ANNUAL-2022(1st JANUARY-2022 to 30th JUNE -2022)
DISTRICT Muzaffargarh



S/Eng.


Sub Engineer
Sub Divisional Officer
Buildings Sub Division
Ali Pur


Executive Engineer
Buildings Division
Muzaffargarh


Superintending Engineer
Buildings Circle
Dera Ghazi Khan

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	MI ENTERPRISES	
	DOC NO.	786-21-80-00
	DISCRIPTION	3-TPH RO
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PROPOSAL ON	3-TPH (3000 LPH) REVERSE OSMOSIS PLANT
PURPOSE	DRINKING WATER

DETAILS	
Client Details	Mr. Zafar Hussain Chief Engineer Ali Pur
Contact Info	Mr. Zafar Hussain 0305-7855414
Document Reference	786-21-80 REV:00
Date Prepared	December 24, 2021

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Introduction (STRN-03-00-4023-629-17) (NTN-4023629-3)

FILTREX is at the forefront of the water treatment industry dealing in water treatment equipment and supplies at national level, equipped with trained qualified technical human resource, *FILTREX* is delivering its best beyond client expectations. *FILTREX* has highly professional qualified engineers having experience of more than a decade in national & international organizations regarding water treatment systems & equipment. Majorly we are dealing with process water Treatment (Pre & Post), drinking water treatment, water treatment chemicals and mechanical fabrication.

FILTREX team has proven track record with their wide experience of waste water treatment in all expects like ETP design, execution, installation & commissioning and operation.

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FILTREX is dealing in the following:

- Engineering, procurement and construction of RO plants, Softener Plants, De-min Plants & Waste Water Treatment Plants (ETP & STP)
- RO Water Treatment Chemicals,
- RO Cleaning Chemicals
- Cooling Tower Water Treatment Chemicals
- Condenser Cleaning Chemicals
- Boiler Water Treatment Chemicals
- Chilled Line Water Treatment Chemical
- Water Treatment Equipment Supplies
- 0.1 Micron to 5 Micron Filters
- HVAC Pre & Bag Filters
- HEPA Filters

Abbreviations Used

RO	Reverse Osmosis Plant
EDI	Electro-deionization System
CT	Cooling Tower
MOC	Material of Construction
TPH	Ton per Hour
Limits	Design Limits under which system operates
ppm	Part Per Million (mg/ltr)
MMF	Multimedia Filtration

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ETP	Effluent Treatment Plant
STP	Sewage Treatment Plant
MS	Mild Steel
SS	Stainless Steel
UPVC	Plasticized Polyvinyl Chloride
PE	Polyethylene

Design Parameters

Design TDS	7000
Chlorine	Nil
Iron	Nil
SDI	< 03

Promise Product Water Specs

TDS	<500 (TDS Controller Valve)
PH	6-8
Efficiency (Recovery Rate)	50%
Turbidity	Nil
Bacteria & viruses	Nil

Note: - TDS controller is a valve that controls the level of salts in the purified output water. It works as a bypass valve which takes a percentage (adjustable) of source water bypassing RO membrane to the output water, which is then filtered through a UF.


Basic Information

Capacity	3000 LPH
Model No	FRO-3TPH
Filtration Stage	Five
Technology	Reverse Osmosis (RO)
Brand Name	Filtrex

Flow Rate

TREATED WATER	3000 LPH BASED
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TECHNICAL SPECIFICATIONS

1-FEED PUMP

PURPOSE

- To feed the dual media filter at pressure more the 2.0 bar, which is minimum operating pressure for filter

SPECIFICATIONS

- ❖ Centrifugal Pump
- ❖ Pressure: 3-5 Bar
- ❖ Make: Grundfos:Denmark/equal
- ❖ Quantity: 1 nos

2-SAND FILTER

PURPOSE

- To Reduce The Total Suspended Solids, Dirt, Iron And Reduce Silt Density Index Which Can Foul The Membranes

SPECIFICATIONS

- ❖ Make: Pentair/Pure Aqua/Frotec/Equal
- ❖ Material of construction: FRP
- ❖ Dia & length: 21*62
- ❖ Testing pressure: 10kg/cm2
- ❖ Opening: top
- ❖ Quantity: 1 nos
- ❖ Multiport: valve type
- ❖ In Out Dia: 4inches
- ❖ Maximum flow: 6000 lph
- ❖ Working: down flow
- ❖ Media: gravel, pebbles, quartz sand, etc.


3-CARBON FILTER

PURPOSE

- To reduce the total suspended solids, dirt, iron and reduce silt density index which can foul the membranes

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SPECIFICATIONS

- ❖ Make: Make: Pentair/Pure Aqua/Equal
- ❖ Material of construction: FRP
- ❖ Dia & length: 21*62
- ❖ Testing pressure: 10kg/cm2
- ❖ Opening: top
- ❖ Quantity: 1 nos
- ❖ Multiport: valve type
- ❖ In Out Dia: 4Inches
- ❖ Maximum flow: 6000 lph
- ❖ Working: down flow
- ❖ Media: Granular Activated carbon, Gravel, Sand

4-MICRON FILTER

PURPOSE

- To remove the fine particles up to 0.5 microns and reduce silt density index levels to acceptable levels.

SPECIFICATIONS


- ❖ Cartridge filter & housing
- ❖ Housing: big blue
- ❖ Make: imported
- ❖ Moc of housing: pp
- ❖ Length: 20"
- ❖ Diameter: 1.5"
- ❖ Quantity: 2 nos

CARTRIDGE:

- ❖ Make: Imported
- ❖ Cartridge moc: polypropylene
- ❖ Length: 20"
- ❖ Micron rating: 05 micron

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❖ Quantity: 2 nos

5-DOSING SYSTEM

PURPOSE

- To dose antiscalant chemical, antiscalant protect the scaling formation on RO membranes.

SPECIFICATIONSE

- ❖ Moc: pp
- ❖ Capacity: 6 lph
- ❖ Pressure: 10 psig
- ❖ Quantity: 1 nos
- ❖ Make: Imported
- ❖ Chemical Storage Tank 80Ltr
- ❖ Quantity: 1 nos

6-HIGH PRESSURE PUMP

PURPOSE

- To feed the reverse osmosis membrane at pressure more than the osmotic pressure taking in consideration flux rate, flow and recovery.

SPECIFICATIONS

- ❖ Moc: stainless steel
- ❖ Type: vertical
- ❖ Pressure: 20 Bar
- ❖ Power required: 7.5 kw
- ❖ Make: Grundfos-Denmark/equal
- ❖ Quantity: 1 nos


7-RO MEMBRANES

PURPOSE

- To remove the major part of TDS up to 95-98 % by reverse osmosis membranes arranged and designed to give adequate flow and recovery.

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SPECIFICATIONS

- ❖ Type: spiral wounded
- ❖ Dia. & length: 8*40
- ❖ Quantity: 3 nos
- ❖ Recovery: 10-12 % each
- ❖ Make of membrane: Hydranautics-USA/Filmtech-USA/equal
- ❖ Salt rejection: 95-98

8-RO PRESSURE CASING

PURPOSE

- To pack reverse osmosis membranes and operate at high-pressure up to 250 psi.

SPECIFICATIONS

- ❖ Moc: FRP
- ❖ Dia. & length: 8*120
- ❖ Quantity: 1 nos
- ❖ Make: Imported

9-ELECTRICAL CONTROL PANEL

PURPOSE

- A control panel is provided as a safety measure for the pumps & other electrical items.

SPECIFICATIONS

- ❖ Complete starters, overload relays, single phase prevention for pump.
- ❖ Voltmeter, ammeter, mcb's, indicating lights
- ❖ Push buttons
- ❖ Rocker switches for dozers
- ❖ Incomers, auto-manual switches...etc
- ❖ 1 Phase (Auto / Manual) With SS Box

10-INSTRUMENTATION

PURPOSE

- Flow meter : to measure the online flow

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

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

8. ANNUAL OPERATING COST (POST COMPLETION)

Financial Components: Capital
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):LE4203

Grant Number:Government Buildings - (PC12042)
LO NO:LO21010600
A/C To be Credited:Account-I

		PKR Million
Sr #	Object Code	
Total		

Financial Components: Capital
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):LE4203

Grant Number:Government Buildings - (PC12042)
LO NO:LO21010600
A/C To be Credited:Account-I

		PKR Million
Sr #	Object Code	
Total		

9. DEMAND AND SUPPLY ANALYSIS

Semi modern health facilities and scientific diagnostics are presently available in this Hospital. This initiative of revamping Hospital will cover all departments and components of healthcare including Medical, Surgical, psychiatric, Cardiac, ENT, Ophthalmic and Pediatrician components. Moreover, women health components i.e. Gynecology 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

RISK REGISTER

Programme for Revamping of all THQ Hospitals in Punjab

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

10.4 WEIGHT COST OF CAPITAL INFORMATION

undefined

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

Social Benefits with Indicators

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

11.3.1 Social Impact:

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

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

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 gazette and non-gazette posts will be available for employment directly or indirectly.

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

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, 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:

Indoor fee

Laboratory fees

Diagnostic facility fees

Dental fee

ECG fee

Private room charges

Ambulance charges

From other fees prescribed by Government

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

Implementation Schedule

Original Gestation period (From September, 2017 to June, 2019)

Extension in Gestation period for one year with no change in cost & Scope till June 2020.

1st Revised gestation period till June, 2021

2nd Revised gestation period till June, 2023

3rd Revised gestation period till June, 2025

12.2 RESULT BASED MONITORING (RBM) INDICATORS

.

12.3 IMPLEMENTATION PLAN

.

12.4 M&E PLAN

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

12.5 RISK MITIGATION PLAN

.

12.6 PROCUREMENT PLAN

.

13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

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. Adeel Aslam

Email:

Fax No:

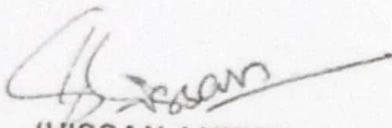
Address:31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

Designation:Project Director, PMU P&SHD

Tel. No.:042-99231206

15. It is certified that the project titled "Revamping of THQ Hospital Jatoi (3rd Revised)" has been prepared on the basis of instruction provided by the Planning Commission for the preparation of PC-I for Social Sector projects.

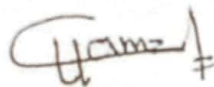
Prepared By:



(HISSAN ANEES)
DIRECTOR PLANNING & HR, PMU,
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

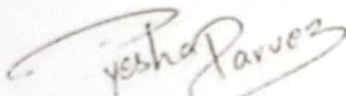


(RIZWAN SHOUKAT)
PROCUREMENT SPECIALIST, (PMU),
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)



(HAMZA NASEEM)
PROJECT MANAGER CIVIL, PMU,
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

Checked By:



(Dr. AYESHA PARVEZ)
DEPUTY PROJECT DIRECTOR (PMU),
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)



(KHIZAR HAYAT)
PROJECT DIRECTOR (PMU),
PRIMARY & SECONDARY HEALTHCARE
DEPARTMENT, LAHORE
(042-99231206)
(Oct-2022)

Approved By:



(DR. IRSHAD AHMAD)
SECRETARY,
GOVERNMENT OF THE PUNJAB
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT, LAHORE
(042-99204567)
(Oct-2022)

17. RELATION WITH OTHER PROJECTS

Scheme ID	Scheme Name
	Revamping of THQ Hospital, Jatoi District Muzaffargarh

20. MARGINALISATION OF PC-1

SR.NO.	CRITERIA	YES/NO	COMMENTS
Description & Objectives			
1	does the pc-i specify link/alignment with punjab growth strategy, punjab spatial strategy (if relevant) & sustainable development goals?	NO	
2	do project objectives/justification include focus on marginalised groups (women, pwds, minorities, transgender, poor etc.)?	NO	
Use of Gender Disaggregated Data			
1	has gender disaggregated data been used to determine need for the project? if yes, identity the source. if not, what additions/observations have been made to strengthen the pc-i?	NO	
2	was gender disaggregated data used to identify potetialimpact of the project on selected beneficiaries?	NO	
Social Impact			
1a	have marginalised groups been included as beneficiaries of the project?	NO	
1b	if yes, does the pc-1 specify a specific quota/percentage for the marginalised (women, peds, etc.)?	NO	
2	does the pc-1 include specific provisions for capacity building / training of women (if applicable)?	NO	
Results Based Monitoring			
1a	does the pc-i include a results based monitoring framework (rbmf)/logical framework?	NO	
1b	if yes, does the framework include measurable targets relating to impact on marginalised groups?	NO	
2	were sdg indicators used for determining targets included in the pc-i?	NO	
3	was gender disaggregated data used to establish baseline and develop quantifiable targets/key indicators?	NO	
4	if yes, identify the source/refresh institute(s)?	NO	
Incursion/Participation			
1	was female representation ensured in planning and adp formulization?	NO	
2a	was stakeholder consultation held during adp formulization and/or pc-idevelopment?	NO	

2b	if yes, did the consultation include experts and representatives of marginalised groups and csos?	NO	
3	was participation of representatives of marginalised groups ensured in pc-1 risk assessment planning?	NO	
Monitoring & Evaluation			
1	does the project provide a role to communities in project monitoring and/or implementation (if relevant)?	NO	
2a	does the project include formation of a steering committee and/or project implementation committees?	NO	
2b	if yes, is there a provision to ensure representation of women in these committees?	NO	