



PC-1

## Revamping of THQ Hospital, Kallarkot District Bhakkar

ORIGINAL APPROVED COST	<b>PKR Million. 266.226/-</b>
ORIGINAL APPROVED GESTATION	<b>72 Months</b> <b>Till June 2025</b>
APPROVAL FORUM	<b>DDSC (DDSC)</b>

## **1. NAME OF THE PROJECT**

Revamping of THQ Hospital, Kallarkot District Bhakkar

## **2. LOCATION OF THE PROJECT**

### **2.1. DISTRICT(S)**

I. BHAKKAR

## **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	<b>AUTHORITIES RESPONSIBLE</b>  3.1 Sponsoring  3.2 Execution  3.3 Operation & Maintenance  3.4 Concerned Federal Ministry	Government of the Punjab, Primary and Secondary Healthcare Department  PMU for Revamping Program of Primary and Secondary Healthcare Department, District Health Councils and C&W Department.  PMU for Revamping Program of Primary and Secondary Healthcare Department and District Health Authority  Ministry of National Health Services, Regulation and Coordination Pakistan
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#### 4. PLAN PROVISION

Sr #	Description
1	<b>Source of Funding:</b> Scheme Listed in ADP CFY
2	<b>Proposed Allocation:</b> 0.000
3	<b>GS No:</b> 5276
4	<b>Total Allocation:</b> 0.000
5	<b>Funds Diverted:</b> 0.000
6	<b>Balance Funds:</b> 0.000
7	<b>Comments:</b> 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 2<sup>nd</sup> 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 causalities, if patient treatment is not proper. Besides road trauma cases, cardiac cases and burn cases etc. are also more likely to be initially treated in emergency. Proper first aid to patient reduces morbidity and mortality. The emergency department of hospital is a block where in time service delivery is so much essential that delay in proper treatment can cause lot of lives to suffer from serious diseases for rest of their life. In a nutshell, the efficiency and in time service delivery of emergency block depicts the overall efficiency of the hospital.

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

##### **5.3.3.1.2 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

##### **Eigibility 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

##### **Eigibility 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 83<sup>rd</sup> 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:

<b><u>Project Pay Scale (PPS)</u></b>	<b><u>Revised Project Pay Scales (Permissible Range) (PKR)</u></b>	<b><u>Annual Increment Up to % age</u></b>
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 83<sup>rd</sup> 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
<b>Total</b>	<b>11</b>		<b>8,760,000</b>	<b>849,000</b>	<b>11,556,000</b>

### **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.

## **6. Description, Justification and Technical Parameters**

The scheme has been estimated on face of the factual basic requirements and if needed, alterations and has been quoted in this PC-I. The Population of Kalurkot District Bhakkar is more than 0.489 million. The area of the THQ Hospital Kalurkot District Bhakkar is 399,379 SFT land.

### **6.1 Description and Justification**

The Project Management Unit, Revamping Program, Primary and Secondary Healthcare Department planned to start the 2<sup>nd</sup> 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 Revamping of THQ Hospital, Kalurkot District Bhakkar.

Revamping of THQ Hospital Kalurkot District Bhakkar 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 3<sup>rd</sup> Revision of PC-I**

1. Originally the Civil work component of the scheme was planned to be executed by the Health Council of the concerned District Health Authority based on cost estimates prepared by the Infrastructure Wing of PMU and approved by the DDSC. Accordingly, funds of Rs.3, Rs.5 and Rs.10 million were provided during FY 2017-18 for the execution of work as per parameters provided to these THQ Hospitals. However, no reasonable revamping civil work was carried out and hence did not fulfil the requirement and the objectives of the Revamping Program. Now P&SHD has decided to carry out further revamping of Civil work through Communication and Works Department Punjab to accomplish the uniformity of THQ Hospitals with already revamped hospitals of Phase-I. Hence the Rough Cost Estimates of the Punjab Buildings Department has been included in the civil work cost of this scheme.
2. 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 24<sup>th</sup> 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 60<sup>th</sup> PDWP meeting as under: -

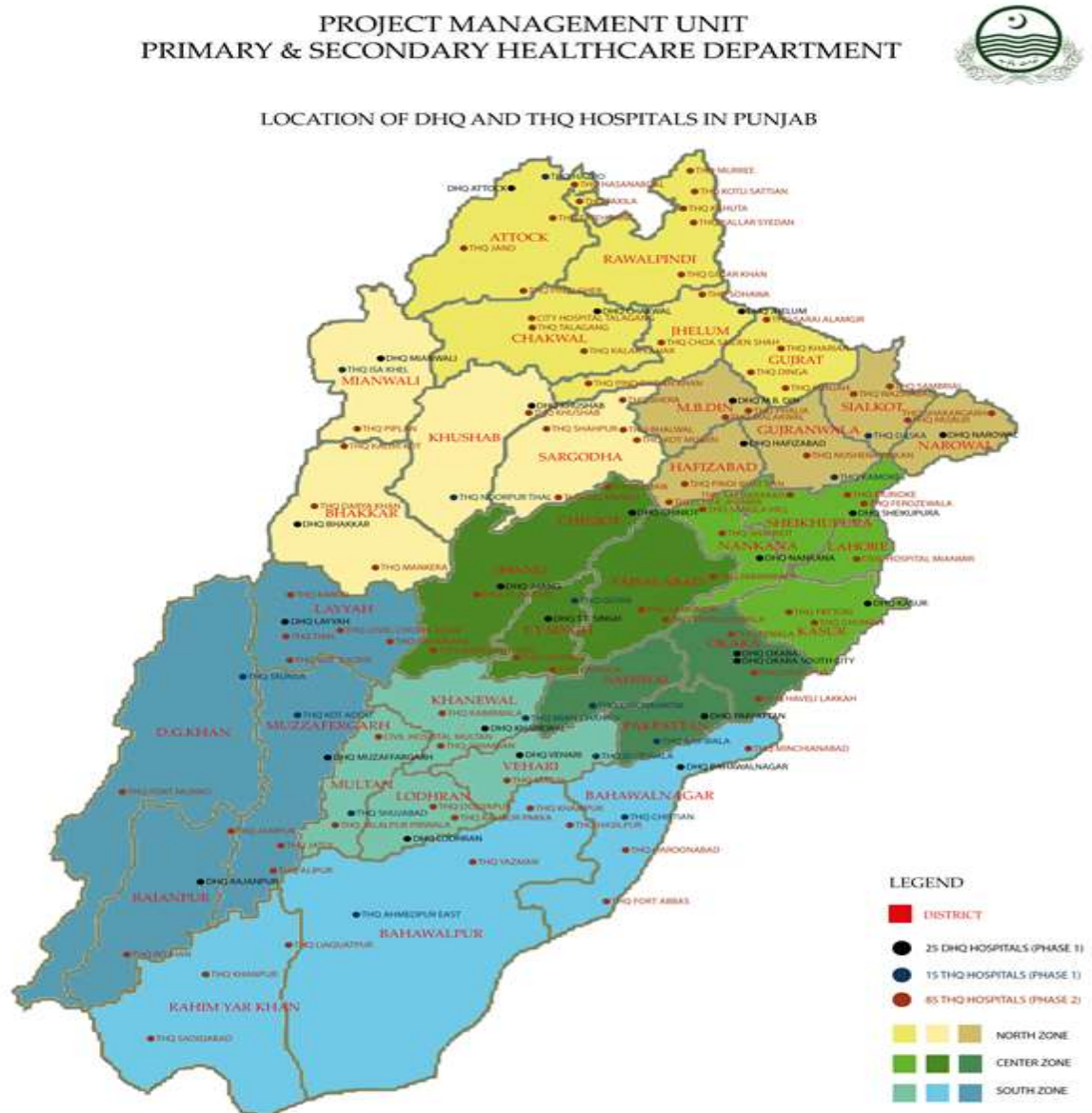
Name of Posts	60 <sup>th</sup> PDWP Meeting		
	PPS Assigned	Permissible Range (PKR) & Annual increment	Approved Pay Package
HR & Legal Officer, IT & Statistical Officer, Admin Officer, Procurement Officer, Finance & Budget Officer, Logistics Officer, Quality Assurance Officer, Audit Officer and Biomedical Engineer	PPS-6	75,000-105,000 (8% annual incr.)	75,000
Assistant Admin Officer	PPS-5	50,000-75000 (10% annual incr.)	50,000
Data Entry Operator	PPS-3	35,000-55,000 (10% annual incr.)	35,000

Now the Planning & Development Board vide letter No.12(24)PO(COORD-II)P&D/2022 dated 14-07-2022 has informed that revised standard pay package were discussed and approved by the 83<sup>rd</sup> 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.

3. As the gestation period of the PC-I till 30.06.2023, therefore, the cost of NMS has been revised for smooth running of the Tehsil Headquarter Hospitals and hence PC-I has been proposed till 30- 06-2025.
4. Infrastructure team has conducted the Joint visits with the team of C&W Department. During the field visits, few alterations were recommended by the technical teams which have been incorporated in the Revised Rough Cost Estimates of the subject scheme and have been attached with the PC-I along with comparative statement. Therefore, Civil works component cost has been decreased from Rs. 45.004 million to Rs. 40.998 million due to few changes in the scope and MRS rates (2<sup>nd</sup> Bi-annual 2022).

## 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:





## **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:**LO17011153  
**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	0.000	0.000	0.000	0.000	0.000	0.000
2	A12403-Other Buildings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total</b>		<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

**Grant Number:**Government Buildings - (PC12042)  
**LO NO:**LO22010066  
**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	0.000	0.000	0.000	0.000	0.000	0.000
2	A05270-To Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Total</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
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## Abstract of Cost

Name of THQ Hospital	THQ KALURKOT											
Scope of work	Cost in million											
	Original			1st Revised			2nd Revised			3rd Revised		
	Capital	Revenue	Total	Capital	Revenue	Total	Capital	Revenue	Total	Capital	Revenue	Total
<b>Capital component</b>												
Internal development	0.000	24.708	24.708	0.000	24.708	24.708	19.839	10.000	29.839	20.426	10.000	30.426
External development	0.000	4.271	4.271	0.000	4.271	4.271	18.816	0.000	18.816	16.981	0.000	16.981
Water filtration plant	0.000	5.600	5.600	0.000	5.600	5.600	6.348	0.000	6.348	3.591	0.000	3.591
<b>Total Capital Component</b>	<b>0.000</b>	<b>34.578</b>	<b>34.578</b>	<b>0.000</b>	<b>34.578</b>	<b>34.578</b>	<b>45.004</b>	<b>10.000</b>	<b>55.004</b>	<b>40.998</b>	<b>10.000</b>	<b>50.998</b>
<b>Revenue component</b>												
Emergency	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSDS	0.000	8.647	8.647	0.000	8.647	8.647	0.000	9.654	9.654	0.000	13.438	13.438
Med. Machinery and Equipment	0.000	42.424	42.424	0.000	42.424	42.424	0.000	55.658	55.658	0.000	81.150	81.150
Electricity	0.000	11.786	11.786	0.000	11.786	11.786	0.000	11.786	11.786	0.000	18.286	18.286
IT & QMS & Surveillance	0.000	14.515	14.515	0.000	14.515	14.515	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	18.788	18.788
Interior and Exterior decorations/ Signage	0.000	3.371	3.371	0.000	3.371	3.371	0.000	4.695	4.695	0.000	4.695	4.695
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
Human resource (HR) plan	0.000	17.220	17.220	0.000	17.220	17.220	0.000	36.420	36.420	0.000	53.104	53.104
LC Deficit during procurement (currency fluctuation)								4.048	4.048		4.048	4.048
<b>Total Revenue component</b>	<b>0.000</b>	<b>113.066</b>	<b>113.066</b>	<b>0.000</b>	<b>113.066</b>	<b>113.066</b>	<b>0.000</b>	<b>154.078</b>	<b>154.078</b>	<b>0.000</b>	<b>215.228</b>	<b>215.228</b>
<b>Outsourcing component</b>												
Janitorial Services	0.000	10.095	10.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Security and Parking services	0.000	6.168	6.168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Laundry Services	0.000	40.627	40.627	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Maintenance (Generator)	0.000	2.270	2.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEP	0.000	4.486	4.486	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
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
Horticulture services	0.000	1.584	1.584	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total outsourcing cost</b>	<b>0.000</b>	<b>73.278</b>	<b>73.278</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Total</b>	<b>0.000</b>	<b>220.922</b>	<b>220.922</b>	<b>0.000</b>	<b>147.644</b>	<b>147.644</b>	<b>45.004</b>	<b>164.078</b>	<b>209.082</b>	<b>40.998</b>	<b>225.228</b>	<b>266.226</b>
<b>Contingency (1%) only on Civil Component</b>	0.000	0.346	0.346	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Third Party Monitoring (TPM) (1%)</b>	0.000	2.209	2.209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Third Party Validation (TPV) (1%)</b>	0.000	2.209	2.209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Grand Total</b>	<b>0.000</b>	<b>225.686</b>	<b>225.686</b>	<b>0.000</b>	<b>147.644</b>	<b>147.644</b>	<b>45.004</b>	<b>164.078</b>	<b>209.082</b>	<b>40.998</b>	<b>225.228</b>	<b>266.226</b>



## 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	1	0	449,295	-	1	0	449,295	-	1	0	550,000	-	1	0	550,000	-
2		Hematology Analyzer	1	1	0	427,350	-	1	0	427,350	-	1	0	550,000	-	1	0	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	2	0	132,825	-	2	0	132,825	-	2	0	180,000	-	2	0	250,000	-
6		Water Bath	1	1	0	60,000	-	1	0	60,000	-	1	0	157,500	-	1	0	325,000	-
7		Hot air Oven	1	1	0	210,000	-	1	0	210,000	-	1	0	385,000	-	1	0	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	2	8	31,500	252,000	2	8	31,500	252,000	2	8	40,500	324,000	2	8	45,000	360,000
10		glass wares	0	1	0	105,000	-	1	0	105,000	-	1	0	105,000	-	1	0	105,000	-
11		Centrifuge Machine	2	2	0	149,336	-	2	0	149,336	-	2	0	250,000	-	2	0	400,000	-
12	X-Rays	Static X-ray Machine	1	0	1	4,200,000	4,200,000	0	1	4,200,000	4,200,000	0	1	6,000,000	6,000,000	0	1	#####	12,000,000
13		Mobile X-Ray Machine	0	2	0	3,850,524	-	2	0	3,850,524	-	2	0	4,300,000	-	2	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	1	1	52,500	52,500	1	1	52,500	52,500	1	1	60,000	60,000	1	1	85,000	85,000
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	0	0	525,000	-	0	0	525,000	-	0	0	525,000	-	0	0	525,000	-
20	Ultrasound	Portable/Mobile Ultrasound	0	0	0	1,371,331	-	0	0	1,371,331	-	0	0	1,500,000	-	0	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	1	1	301,665	301,665	1	1	301,665	301,665	1	1	900,000	900,000	1	1	1,250,000	1,250,000
23		Temporary pace maker	0	0	0	315,000	-	0	0	315,000	-	0	0	315,000	-	0	0	550,000	-
24		Defibrillator	1	1	0	299,153	-	1	0	299,153	-	1	0	650,000	-	1	0	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	2	0	690,539	-	2	0	690,539	-	2	0	700,000	-	2	0	1,500,000	-
30		Centrifuge Machine	2	2	0	149,336	-	2	0	149,336	-	2	0	250,000	-	2	0	400,000	-
31		Slide viewer	1	1	0	42,000	-	1	0	42,000	-	1	0	55,000	-	1	0	55,000	-
32		Clinical Microscope	1	2	0	132,825	-	2	0	132,825	-	2	0	180,000	-	2	0	250,000	-
33	Dialysis Unit (10 beds)	Computerized Hemo Dialysis Machine	5	4	1	1,050,000	1,050,000	4	1	1,050,000	1,050,000	4	1	1,600,000	1,600,000	4	1	3,200,000	3,200,000
34	Nursery	Baby Cot	10	1	9	14,669	132,017	1	9	14,669	132,017	1	9	16,000	144,000	1	9	16,000	144,000
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	1	1	335,638	335,638	1	1	335,638	335,638	1	1	985,000	985,000	1	1	1,050,000	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	1	1	125,265	125,265	1	1	125,265	125,265	1	1	215,000	215,000	1	1	300,000	300,000
41	O.T (04)	Anesthesia Machine with Ventilator	1	1	0	2,509,554	-	1	0	2,509,554	-	1	0	3,000,000	-	1	0	7,000,000	-
42		BED SIDE PATIENT MONITOR	2	1	1	441,000	441,000	1	1	441,000	441,000	1	1	550,000	550,000	1	1	1,200,000	1,200,000
43		Defibrillator	2	1	1	308,713	308,713	1	1	308,713	308,713	1	1	650,000	650,000	1	1	800,000	800,000
44		Electrosurgical Unit	1	1	0	507,530	-	1	0	507,530	-	1	0	700,000	-	1	0	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	0	4	21,000	84,000	0	4	21,000	84,000	0	4	23,000	92,000	0	4	23,000	92,000
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

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
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	1	1	47,250	47,250	1	1	47,250	47,250	1	1	47,250	47,250	1	1	55,000	55,000
61		BED SIDE PATIENT MONITOR	2	1	1	294,000	294,000	1	1	294,000	294,000	1	1	550,000	550,000	1	1	1,200,000	1,200,000
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		Vaccume 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	1	1	304,220	304,220	1	1	304,220	304,220	1	1	400,000	400,000	1	1	900,000	900,000
67		Baby Cot	2	1	1	14,669	14,669	1	1	14,669	14,669	1	1	16,000	16,000	1	1	16,000	16,000
68	Surgical Emergency (10 beds)	Delivery trolley	2	1	1	47,250	47,250	1	1	47,250	47,250	1	1	47,250	47,250	1	1	47,250	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	1	0	3,355,849	-	1	0	3,355,849	-	1	0	4,000,000	-	1	0	7,800,000	-
71		Operation Table	0	1	0	1,426,215	-	1	0	1,426,215	-	1	0	2,000,000	-	1	0	2,500,000	-
72		MOBILE OPERATING LIGHT	0	1	0	285,466	-	1	0	285,466	-	1	0	400,000	-	1	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	1	0	9,744	-	1	0	9,744	-	1	0	12,000	-	1	0	20,000	-
75		Set of Surgical Instruments	0	2	0	141,750	-	2	0	141,750	-	2	0	160,000	-	2	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	2	13	15,750	204,750	2	13	15,750	204,750	2	13	16,000	208,000	2	13	16,000	208,000
81		Ventilator	0	1	0	2,195,080	-	1	0	2,195,080	-	1	0	3,500,000	-	1	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	#####	-
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	ICU	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		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 Unit	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

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
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	<b>Beds</b>	Fowler beds with Mattress	80	0	80	70,000	5,600,000	0	80	70,000	5,600,000	0	80	110,000	8,800,000	0	80	150,000	12,000,000
		<b>Total</b>					<b>42,423,813</b>				<b>42,423,813</b>				<b>55,657,750</b>				<b>81,150,388</b>
							<b>42.424</b>				<b>42.424</b>				<b>55.658</b>				<b>81.150</b>

## 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
	<b>Total</b>			<b>8,647,094</b>			<b>8,647,094</b>			<b>9,653,822</b>			<b>13,437,942</b>
				8.647			8.647			9.654			13.438

## Electricity

		Original			1st Revised			2nd Revised			3rd Revised		
Sr. No.	Item Name	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	600,000	600,000	2	1,600,000	2,600,000
2	Transformers (100 KVA)	1	450,000	450,000	1	450,000	450,000	1	450,000	450,000	1	450,000	450,000
3	Generator (200 KVA)	0	4,000,000	-	0	4,000,000	-	0	4,000,000	-	0	4,000,000	-
4	Generator (100 KVA)	1	2,300,000	2,300,000	1	2,300,000	2,300,000	1	2,300,000	2,300,000	2	3,400,000	6,800,000
5	2 Ton air conditioners (split)	0	55,500	-	0	55,500	-	0	55,500	-	0	55,500	-
6	2 Ton air conditioners (Cabinet)	34	78,000	2,652,000	34	78,000	2,652,000	34	78,000	2,652,000	34	78,000	2,652,000
7	4 Ton air conditioners (Cabinet)	2	120,000	240,000	2	120,000	240,000	2	120,000	240,000	2	120,000	240,000
8	Ceiling Fans 56"	20	3,090	61,800	20	3,090	61,800	20	3,090	61,800	20	3,090	61,800
10	Bracket Fans 18"	114	3,280	373,920	114	3,280	373,920	114	3,280	373,920	114	3,280	373,920
9	Exhaust Fans	36	3,000	108,000	36	3,000	108,000	36	3,000	108,000	36	3,000	108,000
11	Dual Connection of Electricity / Express Line	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
	<b>Total</b>			<b>11,785,720</b>			<b>11,785,720</b>			<b>11,785,720</b>			<b>18,285,720</b>
				<b>11.786</b>			<b>11.786</b>			<b>11.786</b>			<b>18.286</b>

## IT & QMS & Surveillance

		Original			1st Revised			2nd Revised			3rd Revised		
Sr. No.	Item Name	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
	<b>Total</b>			<b>14,515,000</b>			<b>14,515,000</b>			<b>16,715,000</b>			<b>20,120,000</b>
				<b>14.515</b>			<b>14.515</b>			<b>16.715</b>			<b>20.120</b>



## 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
	<b>Machinery and Equipment's</b>												
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
	<b>Laundry &amp; Washing</b>												
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
	<b>Medicine Store</b>												
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
	<b>Total</b>			<b>13,503,500</b>			<b>13,503,500</b>			<b>13,503,500</b>			<b>18,787,500</b>
				<b>13.504</b>			<b>13.504</b>			<b>13.504</b>			<b>18.788</b>

## Signage and plaques

			Original			1st Revised			2nd Revised			3rd Revised		
Sr No	Type	Kinds of Sign Boards	Quantity	Rates	Cost	Quantity	Rates	Cost	Quantity	Rates	Cost	Quantity	Rates	Cost
		<b>External Sign Boards</b>												
1	A1	External Platform/Road Signage (Circular)	7	10,017	70,119	7	10,017	70,119	7	13,951	97,657	7	13,951	97,657
2	A2	External Platform/Road Signage (Triangular)	7	9,163	64,141	7	9,163	64,141	7	12,762	89,337	7	12,762	89,337
3	B1	Main Directional Board	1	111,359	111,359	1	111,359	111,359	1	155,107	155,107	1	155,107	155,107
4	C1	Directional Board (Single Sheet)	12	14,308	171,696	12	14,308	171,696	12	19,929	239,148	12	19,929	239,148
5	C2	Directional Board (Two Sheets)	1	22,268	22,268	1	22,268	22,268	1	31,016	31,016	1	31,016	31,016
6	C3	Directional Board (Three Sheets)	1	29,854	29,854	1	29,854	29,854	1	41,581	41,581	1	41,581	41,581
7	C4	Directional Board (Four Sheets)	1	36,867	36,867	1	36,867	36,867	1	51,351	51,351	1	51,351	51,351
8	C5	Directional Board (Five Sheets)	1	44,771	44,771	1	44,771	44,771	1	62,360	62,360	1	62,360	62,360
9	C6	Directional Board (Six Sheets)	1	52,274	52,274	1	52,274	52,274	1	72,810	72,810	1	72,810	72,810
10	C7	Additional Panel (For Fixation on existing Foundation & Posts)	3	7,864	23,592	3	7,864	23,592	3	10,952	32,857	3	10,952	32,857
11	D1	Departmental Signage on Building	7	46,729	327,103	7	46,729	327,103	7	65,087	455,612	7	65,087	455,612
12	E1	External Map Boards	3	40,771	122,313	3	40,771	122,313	3	56,788	170,365	3	56,788	170,365
		<b>Internal Signage</b>	0	-	-	0	-	-	0	-	-	0	-	-
1	F1	Internal Hanging Signage (Main Entrance)	5	89,955	449,775	5	89,955	449,775	5	125,294	626,472	5	125,294	626,472
2	F2	Internal Hanging Signage (Main Entrance 2)	5	68,489	342,445	5	68,489	342,445	5	95,396	476,980	5	95,396	476,980
3	F3	Internal Hanging Signage (Corridor)	5	50,724	253,620	5	50,724	253,620	5	70,651	353,255	5	70,651	353,255
4	F4	Internal Hanging Signage (Corridor 2)	5	51,312	256,560	5	51,312	256,560	5	71,470	357,350	5	71,470	357,350
5	G1	Internal Department Signage on wall	7	12,974	90,818	7	12,974	90,818	7	18,071	126,498	7	18,071	126,498
6	H1	Specialist Name Plaques fixed on wall	20	3,729	74,580	20	3,729	74,580	20	5,194	103,880	20	5,194	103,880
7	J1	Room Name Plaques and Numbers fixed on wall	110	858	94,380	110	858	94,380	110	1,194	131,362	110	1,194	131,362
8	K1	Internal Wall Signage	110	1,408	154,880	110	1,408	154,880	110	1,961	215,754	110	1,961	215,754
9	L1	Room Numbers Fixed on Wall	60	3,574	214,440	60	3,574	214,440	60	4,978	298,704	60	4,978	298,704
10	M1	Advance Fire Exit Sign	10	1,819	18,190	10	1,819	18,190	10	2,534	25,340	10	2,534	25,340
11	M2	Fire Exit Sign Mounted Above the Door	10	1,258	12,580	10	1,258	12,580	10	1,753	17,528	10	1,753	17,528
12	N1	Fire Safety/Equipment Signage	20	2,410	48,200	20	2,410	48,200	20	3,357	67,144	20	3,357	67,144
13	P1	Floor Map Board	5	20,875	104,375	5	20,875	104,375	5	29,075	145,376	5	29,075	145,376
14	Q1	Caution Signage	25	2,151	53,775	25	2,151	53,775	25	2,996	74,900	25	2,996	74,900
15	Q2	Caution Signage	5	647	3,235	5	647	3,235	5	902	4,508	5	902	4,508
16	Q3	Caution Signage	10	1,132	11,320	10	1,132	11,320	10	1,576	15,764	10	1,576	15,764
17	Q4	Caution Signage	15	879	13,185	15	879	13,185	15	1,225	18,375	15	1,225	18,375
		<b>Total</b>			<b>3,272,715</b>			<b>3,272,715</b>			<b>4,558,390</b>			<b>4,558,390</b>
		Designing and Site Supervision			98,181			98,181			136,752			136,752
		<b>Grand Total</b>			<b>3,370,896</b>			<b>3,370,896</b>			<b>4,695,142</b>			<b>4,695,142</b>
					3.371			3.371			4.695			4.695

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

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
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
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

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
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 / Cutlery 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
	<b>TOTAL</b>			<b>1,600,000</b>			<b>1,600,000</b>			<b>1,600,000</b>			<b>1,600,000</b>
				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
	<b>Sub Total of HR Model</b>			<b>4,860,000</b>	<b>17,220,000</b>			<b>4,860,000</b>	<b>17,220,000</b>			<b>5,040,000</b>	<b>28,140,000</b>				<b>5,273,000</b>	<b>40,473,000</b>
					<b>17,220</b>				<b>17,220</b>				<b>28,140</b>					<b>40,473</b>
	<b>Utilization of HR Component</b>								<b>8,280</b>				<b>12.63</b>					
	<b>Total of HR Component</b>												<b>36.42</b>					<b>53,104</b>

## 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	20,663	sft		
Covered area assigned to one sweeper	7,500	sft		
Number of sweepers required for covered area	3	Persons		
Road and ROW area	22,531	sft		
Road and ROW assigned to one sweeper	15,000	sft		
Number of sweepers required for road and ROW area	2	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	7	Persons		
Total number of sweepers in evening shift	3	Persons		
Total number of sweepers in night shift	3	Persons		
Total number of sweepers in all shifts	14	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	14	22,000	3,566,675	
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)			10,094,675	
10.095				

10.095



## Security and Parking

		Original			From 1st Revised to onward
<b>Assumptions</b>					<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&amp;D Board; it was inter alia decided as under:</p> <p><b>"It would be made sure by the P&amp;SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</b></p> <p>In view of above, Outsourcing cost has been excluded from this PC-I.</p>
Covered area excluding residences	20,663				
Covered Area per guard	15,000				
<b>Number of guards</b>	<b>1</b>				
Open area excluding parking area	22,531				
Area covered per guard per shift for open area excluding parking	15,000				
<b>Number of guards for total area excluding parking area</b>	<b>2</b>				
Number of gates	4				
<b>Number of guards at gates</b>	<b>8</b>				
<b>Total No of Guard</b>	<b>11</b>				
Total number of all guards for second shift	5				
<b>Lady Searcher</b>	<b>4</b>				
Number of parking areas	1				
Number of guards for parking lot per shift (Morning+ Evening)	2				
Total no. of Supervisors	2				
<b>Type of worker</b>	<b>No of workers</b>	<b>Salary per month</b>	<b>Salary per Month for all Person</b>	<b>Salary for One year</b>	
Supervisors	2	24,675	49,350	592,200	
Ex-Army	7	21,525	150,675	1,808,100	
Civilian	9	21,000	189,000	2,268,000	
Lady Searcher	4	21,525	86,100	1,033,200	
Parking	2	21,525	43,050	516,600	
<b>Sub total</b>				<b>6,218,100</b>	
<b>Equipment cost</b>					
Lump sum Provision (Walk Through Gate=1, Metal Detector=4, Walkies Talkies=9, Base Set=1)				450,000	
<b>Sub total</b>				<b>450,000</b>	
<b>Subtracting Parking Fees</b>				500,000	
<b>Total Security and Parking Services</b>				<b>6,168,100</b>	
				<b>6.168</b>	

## Laundry Services

	Original			From 1st Revised to onward
Type of Item	Qunatity	Unit cost	Total cost	<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&amp;D Board; it was inter alia decided as under:  <b>"It would be made sure by the P&amp;SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</b>                      In view of above, Outsourcing cost has been excluded from this PC-I.</p>
Hygwine Barrier Washer 50 KG	4	4,481,490	17,925,960	
kg/Each Machine	2	1,252,519	2,505,038	
kg/Each Machine	1	942,262	942,262	
Flat Work Ironer	1	2,591,910	2,591,910	
Utility Press	1	1,264,010	1,264,010	
Hand Ironer with Table	1	551,568	551,568	
Spotting Machnie / Stain Remova	1	367,712	367,712	
Sewing Machine	1	115,000	115,000	
Packing / Sorting Table (Local / Imported)	1	85,000	85,000	
Dirty Linen Collection Trolley (Local / Imported)	2	65,000	130,000	
Clean Linen Distribution Trolley (Local / Imported)	2	105,000	210,000	
Storage Racks (Local/Imported)	2	112,000	224,000	
Dirty Linen Storage Bin (Local / Imported)	30	55,000	1,650,000	
Clean Linen Storage Cupboard(Local / Imported)	30	115,000	3,450,000	
Weighing Scale	1	115,000	115,000	
Electric Power Generator (200 KVA)	1	4,900,000	4,900,000	
Sub total of laundry items			37,027,460	
Type of Item	No of Beds	Per bed cost per year	Cost of One year	
No of Bed	80	30,000	2,400,000	
Transport Charges			1,200,000	
<b>Sub total of laundry items</b>	<b>80</b>	<b>30,000</b>	<b>3,600,000</b>	
<b>Total for laundry items</b>			<b>40,627,460</b>	
<b>Total</b>			<b>40.627</b>	



## Maintenance of Generator

	Original			From 1st Revised to onward
Item Name	Quantity	Cost per year	Total Cost	<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&amp;D Board; it was inter alia decided as under:</p> <p><b>"It would be made sure by the P&amp;SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</b></p> <p>In view of above, Outsourcing cost has been excluded from this PC-I.</p>
<b>Periodical Maintenance Cost</b>				
Number of Generators (200 KVA)	-	500,000	-	
Number of Generators (100 KVA)	1	300,000	300,000	
Number of Generators (50 KVA)	1	175,000	175,000	
Repairs Cost	1	475,000	475,000	
<b>HR Cost</b>				
Supervisor	1	40,000	240,000	
Generator Operator	3	30,000	1,080,000	
Technical Staff/Mechanic	-	30,000	-	
<b>Total</b>			<b>2,270,000</b>	
			<b>2.270</b>	

# 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&amp;D Board; it was inter alia decided as under:  <b>"It would be made sure by the P&amp;SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</b>  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	
<b>Total (Salary component)</b>			<b>217,000</b>	<b>2,604,000</b>	
	No.	Per Unit Cost per Year	Cost per Year for all Items	Cost for One Year	
A/C	170	6,665	1,133,050	1,133,050	
Fridge	10	4,000	40,000	40,000	
UPS	15	8,000	120,000	120,000	
Water Cooler	20	4,000	80,000	80,000	
Exhaust	10	3,000	30,000	30,000	
Geyser	20	4,000	80,000	80,000	
Water Pump	8	3,000	24,000	24,000	
Carpentry Work		-	180,000	180,000	
Electrical Work		-	120,000	120,000	
Plumbing Work		-	75,000	75,000	
<b>Sub Total</b>				<b>1,882,050</b>	
<b>General Total</b>				<b>4,486,050</b>	
				<b>4.486</b>	

## 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&amp;D Board; it was inter alia decided as under:</p> <p><b>"It would be made sure by the P&amp;SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</b></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)

		Original				From 1st Revised to onward
Sr. No.	Description of work	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&amp;D Board; it was inter alia decided as under:  <b>"It would be made sure by the P&amp;SH Department that the outsourcing would be shifted to the non-development side from 1st July 2018 next FY".</b>  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	
<b>Total Amount of Platform Construction</b>					<b>1,225,070</b>	
<b>Pre-Fabrication of Canteen Structure</b>						
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	
<b>Total Cost of Pre-Fabrication of Canteen Structure</b>					<b>3,307,052</b>	
<b>Total Amount (Rs)</b>					<b>4,532,121</b>	
22	Electrification				998,735	
23	Plumbing and Sanitary				410,000	
24	Kitching Fixtures				802,000	
<b>Grand Total Amount (Rs)</b>					<b>6,742,856</b>	

6.743

LANDSCAPE DEVELOPMENT WORKS COST ESTIMATE					
		Original		From 1st Revised to onward	
Sr. No.	Description	Unit	Quantity	Unit Rate Rs.	Amount Rs.
1	<b>SOFT LANDSCAPE</b>				
1.1	<b>TOP SOIL</b>				
	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	2,508	20	50,167
1.2	<b>STONE / PEBBLES</b>				
	Supply and laying a layer of pebbles/stone at specified locations with Landscape base as in Landscape Design approved by the Engineer.	Truck	1	34,375	34,375
1.3	<b>GRASSING</b>				
a	<b>GRASSING (EXISTING NON MAINTANE LAWNS)</b>				
	Providing and dibbing of Fine Dacca grass where required, including mud filling/leveling and contour shape preparation confirming to the criteria outlined in the Specifications, complete in all respects as per Drawings, Specifications and as approved by the Engineer.	Stt	3,440	7	24,080
b	<b>GRASSING (NEW LAWNS)</b>				
	Providing and dibbing of Fine Dacca grass - including mud filling/leveling and contour shape preparation confirming to the criteria outlined in the Specifications, complete in all respects as per Drawings, Specifications and as approved by the Engineer.	Stt	4,300	11.25	48,375
1.4	<b>TREE / SHRUBS (SPREADING)</b>				
	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, Pliken, Marzifera etc.	No's	18	1,500	27,000
b	Trees 12" pot 3'-4' - Polyalthia Long folia, Terminally, Cassia Fistula, Bauhinia Variegated, Latonia Choirs, Delonix Regia, Ficus Yellow, Focus Black, Fichus Starlight, Melaluca, Mimuspss, Pine, Ficus Amestel, Pilken, Palms etc.	No's	4	270	1,080
c	Plantation of Fruit Plants in the vacant area 12" pot 3'- 4' - Am rood, Jaman, Beri, Mango, Citrus, Including site preparation, plantation, watering and maintenance for six months.	No's	-	600	-
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	1,564	69	107,916
a	Shrubs and Ornamental Plants 12" pot Pittosporum Variegated, Ixora Cochineal, Juniper Variegated, Carronade Dwarf, Jasmine Thai, Plumier Robar, Cassia Malacca, Largest mea, Euphorbia, Jestropha Thai etc.	No's	246	195	47,970
1.6	<b>GROUND COVERS</b>				
	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	1,670	12	20,040
1.7	<b>PALMS</b>				
	Providing and planting palms as per Drawings, specifications and to the satisfaction of Engineer .				
a	Palm 18" pot - Queen Palm, Wodyeta Bifurcate, Washingtonian Palm, Biskarkia etc.	No's	2	3,675	7,350
b	Palm 18" pot - Phoenix Palm, Cyrus Palm	No's	3	1,800	5,400
1.8	<b>CREEPERS</b>				
	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, Bombay Creeper etc.	No's	8	195	1,560
2	<b>HARD LANDSCAPE</b>				
2.1	<b>WALK WAYS</b>				
a	Excavation of walkways and edging including brick ballast under 12"X14" curb stones fixing with1:2:4 PCC, supply of 7000PSI tuff tiles 60mmas per approved design fixing on 4" brick ballast compacted and grouting with sand.	Stt	344	150	51,600
2.2	<b>BENCHES</b>				
	Concrete Bench 5' wide complete in all respects and to the satisfaction of Engineer as per approved design.	No's	2	12,562	25,124
2.3	<b>DUSTBINS</b>				
	Complete in all respects and to the satisfaction of Engineer as per approved design.	No's	1	23,675	23,675
2.4	<b>PLAYING EQUIPMENTS</b>				
	Complete in all respects and to the satisfaction of Engineer as per approved design.	No's	1	465,760	465,760
2.5	<b>PLANTERS</b>				
	Concrete planters 2' X 2-1/2' complete in all respects and to the satisfaction of Engineer as per approved design.	No's	1	3,850	3,850
2.6	<b>WATER POINTS (Injector Pump 1HP)</b>				
		No's	1	45,000	45,000
3	<b>SOFT LANDSCAPE MAINTENANCE</b> (Including maintenance and up keeping of site for 6 months) after development as per specifications and to the satisfaction of Engineer.	Stt	8,600	7.50	64,500
4	<b>CONSTRUCTION OF PLANTERS</b>				
4.1	<b>Large Size</b> with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.	No's	33	550	18,150
4.2	<b>Medium Size</b> with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.	No's	4	550	2,200
4.3	<b>Small Size</b> with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.	No's	8	550	4,400
5	<b>GAZEBO</b> 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
<b>Total Amount of - Landscaping</b>					<b>1,279,572</b>
<b>PRA(16%)</b>					<b>204,731</b>
<b>Design Consultancy</b>					<b>100,000</b>

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**

	<b>Original</b>			<b>From 1st Revised to onward</b>
<b>Grand Total</b>			1,584,303	
			1,584	

OFFICE OF THE  
CHIEF EXECUTIVE OFFICER  
DISTRICT HEALTH AUTHORITY BHAKKAR

No. CEO/20384 /DHA/BKR

Dated 23/10 /2022

To

The Director Infrastructure,  
Project Management Unit,  
Government of the Punjab, P&SHC Department,  
31-E/1, Shahrah-e-Hazrat Imam Hussain, Gulbeg-III,  
Lahore

Subject:-

**ROUGH COST ESTIMATE FOR THE WORK "PROGRAMME FOR REVAMPING OF ALL THQ HOSPITALS IN PUNJAB ONE AT TEHSIL HEAD QUARTER HOSPITAL KALLUR KOT DISTRICT BHAKKAR" (ADP NO. 658 FOR THE YEAR 2022-23)**

Enclosed please find herewith Superintending Engineer Building Circle Sargodha letter bearing No.5258/Est dated 08.10.2022 along-with rough cost estimate amounting to Rs.46.094 (Millions) for the scheme "Programme for Revamping of all THQ Hospitals in Punjab one at Tehsil Head Quarter Hospital Kallur Kot District Bhakkar on the plinth area rates 2nd Bi-annual 2022 (1st July 2022 to 31st December 2022) for arranging administrative Approval / funds.

DA: As above

CHIEF EXECUTIVE OFFICER  
DISTRICT HEALTH AUTHORITY BHAKKAR

No. CEO/ /DHA/BKR

Copy forwarded to:-

1. The Secretary to Government of the Punjab, Primary & Secondary Healthcare Department Lahore
2. The Superintending Engineer, Buildings Circle Sargodha
3. The Executive Engineer, Buildings Division, Bhakkar

For information, please

<b>RECEIVED</b>	
Diary No: 5848	
Date: 27-10-2022	
Deputy PD	U.P. SHC
Finance & Admin	
Procurement	
Outsourcing	
Infrastructure	
Planning & HR	
ICT	
Operations	
Health	
Legal	
PRC	
LCRC	

CHIEF EXECUTIVE OFFICER  
DISTRICT HEALTH AUTHORITY BHAKKAR

To PM Civil North

27/10/2022

To,

The Chief Executive Officer,  
District Health Authority,  
Bhakkar.

No. *SSB/Est* Dated *08/10* 2022


Subject:

ROUGH COST ESTIMATE FOR THE WORK "PROGRAMME FOR  
REVAMPING OF ALL THQ HOSPITALS IN PUNJAB ONE AT TESIL  
HEAD QUARTER HOSPITAL KALLUR KOT DISTRICT BHAKKAR"  
(ADP NO.658 FOR THE YEAR 2022-23).

Rough Cost Estimate amounting to *41.00* ~~Rs.46.094~~ (M) for the scheme cited as  
subject based on the plinth area rates 2<sup>nd</sup> Bi-annual 2022 (1st July 2022 to  
31st December 2022) is forwarded herewith duly vetted for arranging Administrative Approval /

Funds from the competent authority

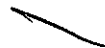
DA/Estimate

  
Superintending Engineer,  
Building Circle,  
*Sargodha*

No. Dated *1* 2022

A copy is forwarded for information to:-

1. The Project Management Unit (Primary & Secondary Healthcare  
Department) 1/E1, Shahrah e Imam Hussain Road Block E-1  
Gulberg III, Lahore.
2. The Executive Engineer Buildings Division, Bhakkar, for information  
with reference to his letter No.2097/EST dated 30.09.2022.

  
Superintending Engineer,  
Building Circle,  
Sargodha,

2

PROVINCE	PUNJAB
DEPARTMENT	C & W
ZONE	NORTH
DIVISION	BUILDING DIVISION BHAKKAR
SUB DIVISION	BUILDING SUB DIVISION KALLUR KOT
NAME OF WORK	<u>ROUGH COST ESTIMATE FOR THE WORK</u> <u>PROGRAMME FOR REVAMPING OF ALL THO</u> <u>HOSPITAL IN PUNJAB ONE AT TEHSIL HEAD</u> <u>QUARTER HOSPITAL KALLUR KOT DISTRICT</u> <u>BHAKKAR</u>
HEAD OF ACCOUNT	<u>PROGRAMME FOR REVAMPING OF ALL THO</u> <u>HOSPITALS IN PUNJAB ADP NO 658 FOR THE YEAR</u> <u>2022-23</u> <u>HEALTH DEPARTMENT</u> <u>PRIMARY &amp; SECONDARY HEALTHCARE</u>

ESTIMATED COST	RS=	<u>Rs 47.873 (M)</u>
		<u>46.0717 m</u>
		41.00

**ROUGH COST ESTIMATE FOR THE WORK PROGRAMME FOR REVAMPING OF  
ALL THQ HOSPITAL IN PUNJAB ONE AT TEHSIL HEAD QUARTER HOSPITAL  
KALLUR KOT DISTRICT BHAKKAR  
(ADP NO 658 FOR THE YEAR 2021-22)**

**HISTORY**

The Govt. of Punjab is very keen interest to improve the health facilities in the province. In this context The Project Manager Primary & Secondary Healthcare Department has desired, to provide Rough Cost Estimate for Revamping in THQ Hospital Darya Khan through Communication and works Department Punjab.

In view of this the field staff along with focal person of Health Department to collect the data from site & prepare the Rough Cost estimate amounting to Rs <sup>46.09</sup> ~~47.873~~ (M) for arrangement of Administrative Approval and release of funds from the competent authority.

**SCOPE OF WORK**

- i. Installation for Water Filtration Plant
- ii. Electrification/Provision Street Lights
- iii. Provision of Internal development (Tile work).
- iv. Provision of Miscellaneous Repair Work
- v. Provision of External Sewerage and Water Supply.
- vi. Anti -Microbial treatment, Anti -Microbial Vinyl floor, Anti Microbial wall panels, Porous monolith False ceiling, Lead lining in X-ray room,
- vii. Provision of Smoke Detector/fire alarm
- viii. Sanitary installation Portion
- ix. Construction of Boundary wall

**CARRYING OUT OF WORK.**

The work will be carried out through approved contractor of Building Department after calling tenders as per usual practice of the department.

**SPECIFICATION**

The work will be got executed according to Buildings Department specification and to the entire satisfaction by the Engineer In charge of the work.

**RATES**


The estimate has been prepared on New Plinth Area/ MRS 2<sup>nd</sup> Bi-Annual System 2022 (1st July 2022 to 31<sup>st</sup> December 2022) Notified by the Finance Department Lahore.


**TIME LIMIT**

It will take 12 Months to complete the work.

**COST**

Total Cost of Scheme is Rs. <sup>46.09</sup> ~~47.873~~ (M). <sup>41.00</sup>

  
Sub Divisional Officer,  
Buildings Sub Division,  
Kallur Kot

  
Executive Engineer,  
Buildings Division,  
Bhakkar

## Primary & Secondary Healthcare

Primary & Secondary Healthcare											(PKR Million)
GS No	Scheme Information Scheme ID / Approval Date / Location	Est. Cost	Accum. Exp. June, 22	Provision for 2022-23			MTDF Projections		Throw fwd Beyond June, 2025		
				Cap.	Rev.	G.Total (Cap.+Rev.)	2023-24	2024-25			
1	2	3	4	5	6	7	8	9	10		
656	Establishment of Cardiac Ward at RHC Khan Bala, Tehsil Liaquatpur, District Rahim Yar Khan 01032107937 / 17-07-2021 / Rahim Yar Khan	43,659	5,000	1,000	0.000	1,000	37,659	0,000	0,000		
657	Establishment of THQ Hospital Bhowana District Chiniot 01081100024 / 16-05-2012 / Chiniot	397,804	125,000	10,000	0.100	10,100	262,704	0,000	0,000		
658	Programme for Revamping of all THQ Hospitals in Punjab 01371700456 / 12-02-2019 / Punjab	22,060,239	6,446,220	1,300,000	500,000	1,800,000	7,826,305	5,987,715	0,000		
659	Upgradation of Existing Trauma Centers and Establishment of New Trauma Centers across the Punjab 01372100633 / 30-07-2021 / Punjab	5,000,000	1,002,774	0,000	100,000	100,000	3,045,597	0,000	0,000		
660	Balance Work of Revamping of all DHQ / 15 THQ Hospitals in Punjab 01372101939 / 30-07-2021 / Punjab	4,940,000	1,283,000	900,000	400,000	1,300,000	1,632,151	0,000	0,000		
661	Establishment of a Health Facility in Rakni, District Barkhan Balochistan 01372154482 / 01-02-2022 / Punjab	589,021	240,000	0,000	10,000	10,000	339,021	0,000	0,000		
Total: Secondary Health Care										9,538,224	
Special Initiatives											
662	Prime Minister Health Initiative 01371900805 / 21-11-2019 / Punjab	2,524,446	1,297,517	0,000	650,000	650,000	576,929	0,000	0,000		
Total: Special Initiatives										0,000	
Total: ON-GOING SCHEMES										13,661,603	
NEW SCHEMES											
Preventive Health Care											
663	Integrated Program for Communicable Disease Control, Punjab 01372001521 / Un-Approved / Punjab	1,000,000	0,000	0,000	200,000	200,000	800,000	0,000	0,000		
664	Infection Control Program Phase (II) 01372200879 / Un-Approved / Punjab	1,000,000	0,000	0,000	200,000	200,000	800,000	0,000	0,000		
665	National Health Support Project (NHSP) 01372202153 / Un-Approved / Punjab	3,870,000	0,000	0,000	10,000	10,000	3,860,000	0,000	0,000		
666	Strengthening of Family Planning Services in Primary & Secondary Health Facilities 01372202154 / Un-Approved / Punjab	4,000,000	0,000	0,000	10,000	10,000	3,990,000	0,000	0,000		
667	Strengthening of Preventive Programs 01372202162 / Un-Approved / Punjab	1,000,000	0,000	0,000	400,000	400,000	600,000	0,000	0,000		
Total: Preventive Health Care										0,000	
Primary Health Care											
668	Strengthening of Urban Dispensaries / Filter Clinics 01372202161 / Un-Approved / Punjab	400,000	0,000	100,000	150,000	250,000	150,000	0,000	0,000		
669	Replacement of Beds and Other Equipment at BHUs of Punjab 01372202278 / Un-Approved / Punjab	400,000	0,000	0,000	400,000	400,000	0,000	0,000	0,000		

**CHECK LIST FOR IDENTIFICATION OF SCOPE FOR REVAMPING OF HEALTH FACILITY  
THQ JAND**

Sr No	Description	Additional Information
1	Water Supply System	OHWR is not required.
2	Sewerage System	Storm Water drianage is required.
3	External Pathways	PCC Pathway is required in front of Trauma Center.
4	Boundary Wall	Not required.
5	Main Gate	Not required.
6	Sources of Electircal Supply	Required
7	Transformer	Required
8	ATS Panel for Generators	Required
9	Electrical Panel Room	Renovation Required
10	External Wires	Should be concealed
11	Water Filtration Plant	RO plant is required.

CHECK LIST FOR IDENTIFICATION OF SCOPE FOR REVAMPING OF HEALTH FACILITY  
THQ Kallur Kot 11-08-22

Item	Remarks
OPD Block	Existing tile of the hospital is in good condition & does not need to be replaced. Only 10% of the tile may be taken in the estimate where required. Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.
Operation Theatre	
Indoor Wards	Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.
Laboratory	Full Body Porcelain tiles needs to be fixed on floor by dismantling existing terrazo and providing new PCC layer of specified thickness.
X-ray Room	
	Tiles specifications, brand, size and installation specification will be as per specified C&W standards.



2	<p>Porcelain Wall Tile replacement</p>	<p>Dado of the hospital is also in good condition. Only those tile dado may be replaced which is old &amp; damaged.</p> <p>Full Body Porcelain tiles needs to be fixed on walls up to height of 6ft. Or height as per C&amp;W Standards (for corridors, wards, waiting areas) and 6" skirting (inside rooms/offices) after dismantling of existing surface terrazzo surface.</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with solid flush doors of similar existing design.</p> <p>Operation Theatre requires a new aluminium door to separate OT from Labour room.</p>	<p>Dado of full body porcelain is required upto 6".</p>	<p>Full Body Porcelain tiles needs to be fixed on walls up to height of 6ft. (for corridors, wards, waiting areas) and 6" skirting (inside rooms/offices) after dismantling of existing surface.</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with wooden doors of similar existing design.</p>	<p>Specifications, brand, size and installation will be as per specified C&amp;W standards.</p> <p>Specifications, wood/type of door, polish, door locks and handles will be as per specified C&amp;W standards.</p>
3	<p>Wooden Doors flush or Solid/ Main Doors</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with solid flush doors of similar existing design.</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with wooden doors of similar existing design.</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with wooden doors of similar existing design.</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with wooden doors of similar existing design.</p>	<p>Existing flush doors to be repainted/polished after scrapping existing paint Only Damaged doors need to be replaced with wooden doors of similar existing design.</p>	<p>Specifications, wood/type of door, polish, door locks and handles will be as per specified C&amp;W standards.</p>

4	Verandah opening (opening to open area)/ MS Windows on Façade	All Existing MS Corridor windows need to be provided with additional MS angle iron and double wire mesh.				Specifications will be as per C&W standards.
5	Existing Internal Windows	All Existing internal MS windows need to be replaced with Aluminum Windows.	All Existing internal MS windows need to be replaced with Aluminum Windows.	All old MS internal windows need to be replaced with Aluminum Windows.	All old MS internal windows need to be replaced with Aluminum Windows.	Specifications, Aluminum and glass color will be as per specified C&W Standards
6	Internal Corridors.	Wall Panelling to be removed from walls and seepage issues to be addressed rectified along with roof structure treatment.		Remove ceiling & install SMD lights.		
7	Internal Electrification including fittings	All Electric fittings including switch boards, plates, sockets, wires & DBs should be replaced and installed at standard height from Finish Floor Level and all must be identical.	All Electric fittings including switch boards, plates, sockets, wires & DBs should be replaced and installed at standard height from Finish Floor level and all must be identical.	All Electric fittings including switch boards, plates, sockets, wires & DBs should be replaced and installed at standard height from Finish Floor level and all must be identical.		Model Specifications/ Brands, should be as per specified C&W Standards.

Internal Lighting Fixtures	Revamping of Public Toilets
All corridors and rooms should lit with SMD's with concealed wiring.	Only few washrooms need to be revamped by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with complete repair of existing water supply and sewerage connections.
All corridors and rooms should lit with SMD's with concealed wiring.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.
SMDs need to be installed.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.
Remove ceiling & install SMD lights.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.
SMDs need to be installed.	All washrooms need to be revamped completely by fixing full body porcelain tiles on floor and full body porcelain tiles on wall up to a minimum height of 7 ft. All existing fixtures should be replaced with new fixtures along with new water supply and sewerage connections.
Model Specifications/ Brands and distance should be as per specified C&W Standards.	Vanity, wash basin, water closets, bath room accessories, tile size and color will be as per specified C&W standards. All Washroom doors should be replaced with UPVC doors having specified C&W Standards.

Wall Paint	All Walls should be painted after complete scrapping of existing paint and surface of walls should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.	Roof Treatment is required in the hospital with special treatment of expansion joints on roof.	Nursing Counter (Ward)	All stairs with terrazo on steps need to be replaced with Marble/Granite on steps. Stair railing needs to be replaced with SS stair rail.		Stairs - Marble and Railing
Plaster Cement Ratio, wall putty brand specifications, paint and color will be as per C&W standards.	All Walls should be painted after complete scrapping of existing paint and surface of walls should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.	-----	Nursing counter will be provided upto 2.5' height with granite marble on top. Change tile on counter front with full body porcelain tile.	-----		Marble/Granite type and installation technique will be as per C&W Standards.
	All Walls should be painted after complete scrapping of existing paint and surface of walls should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.					
	All Walls should be painted after complete scrapping of existing paint and surface of walls should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.					
	All Walls should be painted after complete scrapping of existing paint and surface of walls should be prepared after plastering in patches (where required only) and wall Putty prior to paint works.					

4	Ramps - Tile and Railing	Chequered tiles need to be fixed on ramp.	----	----	----	----	----	----
5	Facade Uplifting	Facade treatment should be executed on front elevation. (OPD Main Entrance Wall)	----	----	----	----	----	----
6	Lead lining Walls (X-Ray)	----	----	----	----	Lead lining of x-ray room needs to be done.	----	----
7	Antimicrobial Treatment (OTs)	Anti-microbial treatment is required in operation theatre. (Dampa Ceiling, Anti-microbial wall panelling, anti-static flooring).	----	----	----	----	----	----
8	External Weather Shield	Weather shield to be done on all external walls other than facade	----	Weather shield to be done on all external walls other than facade	Weather shield to be done on all external walls other than facade	Weather shield to be done on all external walls other than facade	----	----
9	Edge Protection/Aluminium Cladding	SS Edge Protection needs to be fixed on all corners up to height of 5 ft. till the height of Wall/Dado tiles.	----	SS Edge Protection needs to be fixed on all corners up to height of 5 ft. till the height of Wall/Dado tiles.	SS Edge Protection needs to be fixed on all corners up to height of 5 ft. till the height of Wall/Dado tiles.	----	----	----
10	Columns SS Cladding	SS Cladding will be provided in internal columns.	----	SS Cladding will be provided in internal columns.	SS Cladding will be provided in internal columns.	----	----	----

21	Plumbing Works	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Required	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Required	Damaged Water supply & sewerage pipes causing seepage to be repaired & rectified.	Required
22	Fire Alarm-System	Required	Required	Required	Required	Required	Required
23	Elevators	----	----	----	----	----	----
24	Expansion joint of Building	All expansion joints of building should be properly filled, sealed & covered SS strip. Joint must not be covered with Tile/Flooring	Treat expansion joint of building properly & cover it with SS patti	Treat expansion joint of building properly & cover it with SS patti	----	----	----
25	Any Other item	Aluminium Doors of Trauma Center need to be repaired.	----	----	----	----	----
26	External Electrification	All external main cables of hospital which are hanging in Air should be concealed in all respects along with provision of proper Earthing system and lightning arresters. Similarly, existing DB's need to be replace as per site condition if required.					

**ROUGH COST ESTIMATE FOR THE WORK PROGRAMME FOR  
REVAMPING OF ALL THQ HOSPITAL IN PUNJAB ONE AT TEHSIL  
HEAD QUARTER HOSPITAL KALLUR KOT DISTRICT BHAKKAR**

**PROGRAMME FOR REVAMPING OF ALL THQ HOSPITALS IN PUNJAB  
ADP NO 658 FOR THE YEAR 2022-23**

**ABSTRACT OF COST**

2	Provision of Tuff Paver / P.C.C Roads	Rs:	<del>376100</del> <del>482000</del>
4	Installation for Water Filtration Plant	Rs:	3591674 <del>10419600</del>
5	Electrification/ Provision Street Lights	Rs:	<del>11961000</del> <del>1248900</del>
7	Provision of Internal devolpment (Tile work)	Rs:	<del>1001000</del>
9	Provision of Internal Fixtures of Doors & Windows	Rs:	9369563 <del>10023000</del>
10	Provision of Miscellaunce Repair Work	Rs:	907100 <del>5102900</del>
12	Provision of Sewerage and Water Supply Pipe Line	Rs:	<del>5467000</del> <del>4233600</del> <del>4167400</del>
13	i) Anti -Microbail tretment, ii) Anti -Microbail Vinyl floor, iii) Anti -Microbail wall penels, iv) Porous monolith False ceiling,	Rs:	4894600
14	Lead lining in X-ray room,	Rs:	227800
15	Provision of Smoke Detector/ fire alarm	Rs:	1528900
16	Sanaitary Instalation portion	Rs:	2248680
Add 5% PRA Tax			39047117 - 43815754 1952355 - 2194788 40999472 - 41000000 Total 47872707 46090542 46091000

Say Rs. ~~Rs. 47,873 (M)~~  
41.00 ~~46,091 (M)~~

*Man Pal*  
SUB ENGINEER  
Sub Division Officer  
Buildings Sub Division  
Kallur Kot  
41.00  
Vetted for Rs 46,091,000

*Man Pal*  
Executive Engineer  
Buildings Division  
Bhakkar

*Man Pal*  
Superintendent Engineer  
Building Circle  
Sargodha

ROUGH COST ESTIMATE FOR THE WORK PROGRAMME FOR REVAMPING OF ALL THQ HOSPITAL IN PUNJAB ONE AT TEHSIL HEAD QUARTER HOSPITAL KALLUR KOT

DISTRICT BHAKKAR

PROGRAMME FOR REVAMPING OF ALL THQ HOSPITALS IN PUNJAB ADP NO 658 FOR THE YEAR 2022-23

COMPARATIVE STATEMENT

Sr.No.	Description of Item.	Amount As Per vetted Rough Cost Estimate. (MRS 2nd BI-Annual 2021(1st July 2021 to 31st December 2021)	Amount As Per vetted Rough Cost Estimate. (MRS 2nd BI-Annual 2022(1st July 2022 to 31st December 2022)	Excess	Saving	Remarks
1	Provision of Construction /Repair of Roads	841000	376100	--	464900	
2	Provision of Tuff Paver /P.C.C Roads	5588000	--	--	5588000	
3	Installation for Water Filtration Plant	6395900	3591674	--	2804226	
4	Provision of Razor cut wire on Boundary wall.	1390500	--	--	1390500	
5	Electrification/Provision Street Lights	3842700	10419600	6576900	--	
6	Public Health/Sanitary Installation Portion	--	2248680	2248680	--	
7	Construction of Parking Shed	1844000	--	--	1844000	
8	Provision of Internal development (Tile work)	2132000	1248900	--	883100	
9	Construction of Podium & Face work	1587332	--	--	1587332	
10	Provision of Internal Fixtures of Doors & Windows	921836	<del>40023000</del> 9369563	9101164	--	
11	Miscellaneous repair/ Civil Work	8458000	<del>5402900</del> 907700	--	3355100	
12	Construction of waiting hall(47'x30')	4680400	--	--	4680400	
13	Provision of Sewerage and Water Supply Pipe Line	1211400	4233600	3022200	--	
14	i) Anti -Microbial treatment, ii) Anti -Microbial Vinyl floor, iii) Anti -Microbial wall panels, iv) Porous monolith False ceiling, v) Lead lining in X-ray room, vi) Provision of Reception Counter,	3716700	5122400	1405700	--	
15	Provision of Smoke Detector/fire alarm	1176200	1528900	352700	--	



Description of Item.		Amount As Per vetted			
Revamping of Mortuary	Rough Cost Estimate. (MRS 2nd BI-Annual 2021(1st July 2021 to 31st December 2021)	469000	3904717	43895754	469000
	Amount As Per vetted	44254968	43895754	22707344	23066558
	Total	442550	40999472	-	442550
	Add 1% Tree Plantation Tax	2212748	2194788	1952355	17961
	Add 5% PRA Tax	442550	40999472	-	442550
	Total	46910000	46091000	22707000	23527000
OR:		46.910 (M)	46.091 (M)	22.707 (M)	23.527 (M)

Amount As Per MRS 2nd BI-Annual 2021(1st July 2021 to 31st December 2021)

Amount As Per vetted Rough Cost Estimate.  
MRS 2nd BI-Annual 2022(1st July 2022 to 31st December 2022)

Difference:-

OR Saving over previous vetted estimate

46.091(M)  
47.00  
0.819(M)  
1.75%

Sub Engineer

Sub Divisional Officer  
Buildings Sub Division  
Kallur Kot

Provision of P.C.C Road

1 P/Laying Cement concrete brick or stone ballast 1-1/2" to 2" gauge.(1:6:18)

Truna center front	1	x	105	x	20	x	1/4	Cft
								<del>4950</del>
								525
								19628.05
								%Cft

103047  
Rs. 206095/-

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

1	x	105	x	20	x	1/4	Cft
							525
							38178.90
							%Cft

Rs. 200439/-

4 Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1 1/2" x 3/8" (40 x 10 mm)

Take Qty: of items as above.	525	x	4	Sft
	2100	x	60%	Rft
				1260
				1260
				P-Rft
				@ 19.80
				Total:-

Rs. 24948/-

4 Constructing Punjab Standard Drains. of cement concrete 1:2 1/2 :5, wi th cement concrete bedding ratio 1:6:12, complete, laid to l ines, grades, slopes and shapes, rendering exposed surface of concrete wi th 1:1 cement, sand mortar, 1/4" (6 mm) thick, as per Engineer's drawing (excluding excavation):-  
Type II

1	x	105	Rft
			105
			105
			P-Rft
			@ 349.45
			Total:-

Rs. 36692/-

Rs. 460174/-  
365126

Add 3 % Contingency Charges

10954

Total:-

Rs. 482219/-

376080

Rs. 482000/-

376100/-

Say Rs

*Sub Engineer*  
Sub Engineer

*Sub Division Engineer*  
Sub Division Engineer  
Buildings Sub Division  
Kallur Kot

*Sub Division Engineer*  
Sub Division Engineer  
Buildings Sub Division  
Kallur Kot

ROUGH COST ESTIMATE FOR INSTALLATION OF WATER FILTRATION PLANT AT THE HOSPITAL

[illegible]

~~EXHIBIT NO. 1~~

## **Provision of Water facilities**

- | No. | Description   | Unit | Quantity | Rate           | Amount             |
|-----|---|------|----------|----------------|--------------------|
| 1   | Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete:-<br>4" dia.  | 1    | x 100    | Rs. 316.65     | Rs. 31665/-        |
| 2   | Providing and installing P.V.C. strainer B.S.S. Class 'B', in tubewell bore hole, including sockets and solvent, etc. complete. 4" dia.   | 1    | x 20     | Rs. 508.00     | Rs. 50800/-        |
| 3   | Providing and installing P.V.C. blind pipe, B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete. 4" dia.  | 1    | x 40     | Rs. 193.44     | Rs. 19344/-        |
| 4   | Providing and installing P.V.C. blind pipe, B.S.S. Class 'D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete. 1-1/4" dia.  | 1    | x 50     | Rs. 644.50     | Rs. 64450/-        |
| 5   | Cost of foundation of brick masonry and top PCC 1:2:4 (size 2' x 1-1/2' x 1-1/2')   | 1    | No.      | Rs. 7913/-     | Rs. 7913/-         |
| 6   | Cost of angle iron frame 1"x1"x1/8" cover with M.S sheet 16-SWG (size 2' x 1-1/2' x 2')<br>i/c painting 3 coats   | 1    | No.      | Rs. 2000/-     | Rs. 2000/-         |
| 7   | 1 HP Electric Motor, 21-Mtr Suction and 21 M del i very head P/F Ej ector Pump of speci f i ed Suct i on and Del i very heads, coupled wi th Si ngl e Phase Seimen El ect r i c Motor of requi red rat i ng for water supply i/c the cost of connect ion charges, necessary wi re, PVC pipes et c compl ete in al l respect as approved and di rected by the Engineer Incharge. | 1    | No.      | Rs. 12526/-    | Rs. 12526/-        |
| 8   | P/installing PVC ball/end plug BSS class "D" 2" dia.  | 1    | No.      | Rs. 12526/-    | Rs. 12526/-        |
|     |   |      |          | <b>Total:-</b> | <b>Rs. 88068/-</b> |

**Say.**

**Rs. 88100/-**

*Sub Division Officer,*  
Buildings Sub Division,  
Kallur Kot.

*James M.*  
Executive Director  
Baltimore Office  
Baltimore, Md.

PROVISION OF ELECTRIFICATION (EXTERNAL)

ABSTRACT OF COST

- 1 S/E of Street Lite Pole  
S/E of ATS Panel i/c power wiring.

Add 3 % Contingency Charges

5552440

Total:-

10116140

Total:-

Say Rs.

4563700

Rs. 5426500/-

Rs. 6185819/-

Rs. 4612319/-

Rs. 3483700/-


Rs. 3621254

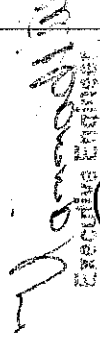
Rs. 4966689/-

10419624

Rs. 11961000/-

10419600/-

  
Sub Division Officer,  
Buildings Sub Division,  
Kallur Kot

  
Executive Engineer  
Buildings Division Shikhar

## PROVISION STREET LIGHT

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

1	x	1	x	1200	x	1	x	1	1/2	1800	Cft
<b>Total</b>											1800
											@ 7622.75
											%0Cft Rs. 13721/-

- 2 S/E of PVC pipe for wiring recessed in walls i/c inspection boxes, pull boxes, hooks cutting jharries repairing surface complete with all specials

b) 1-1/2" dia.

1200	Rft
<b>Total</b>	<b>Rft</b>
@	<b>P-Rft</b>
	1200
	145.6

- 3 Supply and erection of single core PVC insulated, PVCsheathed copper conductor, 250/440 volts grade cable(BSS-2004), in prelaid PVC pipes/M.S.conduit/G.I.pipe/ woodenstripbatten/ woodencasing andcapping/trenches, etc. (rate for cable only):-

i) (7/0.029")

3200 Rft

<b>Total</b>		3200	Rft
		@ 40.75	P-Rft Rs. 130400/-
		640	Rft

19/0.052 4 CORE

<b>Total</b>		640	Rft
		@ 1204.55	P-Rft Rs. 770912/-

ii) (7/0.044")twin core

860 Rft

<b>Total</b>		860	Rft
		@ 160.2	P-Rft Rs. 137772/-

- 4 P/F floor mounted Electric Panel board of requi red depth and size, fabricarted wi th 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish wi th electro static powder coating in approved colour i/c the cost of Lock, Indication l ights,thimbles, Copper Conib, Wi ring, Netural & Earth Bar, gl ands, Cur rent Transf ormers of speci fi ed capaci ty ,Door Ear thi ng, Brass glands,bus bars,controles complete in al l respects as approved and di rected by

1 No.

<b>Total</b>		1	No.
		@ 3433.8	Each Rs. 3434/-

- 5 Provision of street light Pole.

Nos

<b>Total</b>		60	Nos
		@ 5554.5	Each Rs. 332700
		60	Each Rs. 4195500/-

Analysis Attached

Total  
Total

Rs. 5426459/-  
Rs. 5426459/-  
4563659  
Rs. 5426500/-

4563700/-


Sub Engineer


Sub Division Officer  
Buildings Sub Division  
Kallur Kot

**THQ HOSPITAL Kallur Kot**  
**Provision/Installation of Electrical Equipment**

S.#	Description	Qty:	Unit	Rate	Amount
<b>A</b>	<b>L.T.(LV) SUB-STATION EQUIPMENT:</b>				
<b>1</b>	P/F floor mounted ATS (Auto Transfer Switch) panel board , fabricated with 14S WG M.S sheet (Indoor Type) duly painted with 100 microns powder coated paint in approved colour , front access ,extendable,insulation class of 600 volts IP-44, incoming & outgoing connections from bottom with flexible copper cable suitable for 415 VAC. 3-phase 4 wire, 50 HZ, TPN& E system having rated service, short circuit breaking capacity at 400VAC conforming to IEC-947-2 to accomodate given no of circuit components, instruments & accessories,assembled & wired with Electrolitic Copper bus bars at 50 deg and cables duly cleaned down to bare shining metal phosphate, manual change Over i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar,CTs,Contactors,Relays, Door Earthing, Brass glands complete in all respects as approved and directed by the Engineer Incharge. (Breakers will be paid additionally)				
	<b>ATS for Dual Supply (Incoming from 200 KVA Transformers)</b>				
	<b>b) 2.00 Ft deep</b>				
	<b>(ii) 200 KVA</b>	1	each	1833651.55	1833651.55
	<b>Incoming Breakers for ATS (Incoming from 200 KVA Transformers)</b>				
<b>1</b>	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	<b>(a) Tripple Pole 400A(36 KA) (One for Each 200 KVA Transformer)</b>	2	each	62433	124866
	<b>Outgoing Breakers for ATS (Incoming from 200 KVA Transformers)</b>				
<b>2</b>	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.	1	each	62433	62433
	<b>(a) Tripple Pole 400A(36 KA)</b>	2	each	39813	79626
<b>2</b>	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
	<b>Main DB for ACs</b>				
	<b>Incoming from ATS for Dual Supply</b>				
	<b>(i) LT Switchboards</b>				
	<b>a) 2.50 Ft deep</b>	1	each	3433.86	3433.86
	<b>(a) 400A (3.0x6'x2.5')</b>				
	<b>Incoming Breaker for Main DB for ACs</b>				
<b>1</b>	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	<b>(a) Tripple Pole 400A(36 KA)</b>	1	each	62433	62433
	<b>Outgoing Breakers for Main DB for ACs</b>				
<b>2</b>	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
<b>3</b>	<b>(a) Tripple Pole 200A(36 KA)</b> P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).	4	each	39813	159252
	<b>Sub Main DB for ACs</b>				
	<b>Incoming from Main DB</b>				

S.#	Description	Qty:	Unit	Rate	Amount
	(a) 12" deep				
	(ii) 200A (3'x4'x12")	3	each	<del>12443</del> 4497	<del>47911</del> 13491
	<b>Breakers for Sub Main DB for ACs</b>				
1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 200A(36 KA) (1*3=3)	3	each	39813	119439
2	Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 63A(10 KA) (3*3=9)	9	each	8433	75897
	(b) Tripple Pole 32A(10 KA) (3*3=9)	9	each	8433	75897
	(c) Single Pole 32A(10 KA) (8*3=24)	24	each	1298.65	31168
	(d) Single Pole 16A(10 KA) (12*3=36)	36	each	1298.65	46751
4	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Natural & 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).				
	<b>Sub Main DBs for Lighting</b>				
	<b>Incoming from Electrical Room/Main DB</b>				
	(a) 6" deep				
	(ii) 80A (30"x22"x6")	3	each	968.5	6657
	<b>Breakers for Sub Main DBs for Lighting</b>				
1	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(a) Tripple Pole 80A(36 KA) (1*3=3)	3	each	17433	52299
2	Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	(d) Single Pole 16A(10 KA) (6*3=18)	18	each	1298.65	23376
	(e) Single Pole 10A(10 KA) (6*3=18)	18	each	1298.65	23376
<b>B</b>	<b>LT POWER CABLE.</b>				
1	150 mm sq (37/0.093") PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (for Main DB for ACs)	230	rft	5686.15	1307815
2	70 mm sq (19/0.083") PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable (for Sub Main DBs for ACs)	510	rft	2655.8	1354458
3	7/1.12 mm (7/0.044") PVC insulated, PVC sheathed twin core, 250/440 volts, copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches,	600	rft	160.2	96120
	<b>Total</b>			<b>552440</b>	<b>6185819</b>

  
 Sub Engineer  
 Buildings Sub Division  
 Kallur Kot

  
 Sub Engineer  
 Buildings Sub Division  
 Kallur Kot





# **PROVISION OF INTERNAL DEVELOPMENT TILE WORK**

1 Dismantling glazed or encaustic tiles, etc.

Isolation ward	1	x	12	x	19	228	Sft		
	2	(	12	+	19	)	5	310	"
Female ward	1	x	4	x	6	24	"		
	6	x	4	x	5	120	"		
6	2	(	4	+	5	)	5	<del>90</del> 540	"
	4	x	6	x	6	144	"		
2	2	(	6	+	6	)	5	<del>120</del> 240	"
Medicine store	1	x	12	x	2	24			
General store	1	x	6	x	2	12			
OPT	1	x	12	x	8	96	"		
	2	(	12	+	8	)	3	120	"
1	1	x	5	x	2	10			
Blood Bank	3	x	6	x	3 1/2	63	"		
Gyanee ward	2	(	6	+	3 1/2	)	5	<del>95</del> 285	"
3	Total <del>2216</del> 2216						Sft		
	@ 2335.85						%Sft		

51762/-  
~~Rs. 34010/-~~

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

Isolation ward	1	x	12	x	19	228	Sft	
Store	1	x	10	x	6	60	"	
Female ward	1	x	4	x	6	24	"	
Medicine store	1	x	12	x	2	24	"	
General store	1	x	6	x	2	12	"	
OPT	1	x	12	x	8	96	"	
Total:-							Sft	
							444	
@							340.55	PSft

Rs. 151204/-

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

(For Dado).							Sft	
Isolation ward	2	(	12	+	19	)	5	310
OPT	2	(	12	+	8	)	3	120
Store block gallery	2	x	28	x	4			224
	2	x	70	x	4			560
	2	x	46	x	4			368
Total:-							Sft	
@							PSft	

538750/-  
~~Rs. 537880/-~~

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 as approved and directed by the Engineer Incharge. i) 12"x18" / 12"x24" / 10"x24" / 8"x24" / 12"x36"

directed by the Engineer in-charge									
peeds ward	6	x	4	x	5	120	Sft		
	4	x	6	x	6	144	"		
Blood Bank	1	x	5	x	2	10	"		
Gyanee ward	3	x	6	x	3 1/2	63	"		
Total:-							337	Sft	
							@	240.00	PSft

Rs. 80880/-

- 1 Providing and laying superb quality Ceramic tile dado or skirting 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 seal er for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.) 12"x18" /12"x24" /10"x24" /8"x24" /12"x36"

6	2	(	4	+	5	)	5	<del>90</del> 540 Sft
4	2	(	6	+	6	)	5	<del>120</del> 240 "
3	2	(	6	+	3 1/2	)	5	<del>95</del> 285 "
Total:-								<del>305</del> 1065 Sft
@								292.75 PSft

- 3 Providing and fitting expanded metal edge bead for corners, with nail on both sides of edges.

240 x 5

Total:-	1200	Rft
@	1200	Rft
	65.10	PRft
Total		Total
Total:-		Total

Add 3 % Contingency Charges

Say Rs.

Sub Division Officer,  
Buildings Sub Division,  
Kallur Kot

*[Signature]*  
Executive Engineer  
Buildings Sub Division  
Kallur Kot

811779/-  
Rs. 89289/-

Rs. 78120/-  
Rs. 971383/- 121249/-  
Rs. 29141/- 96375  
Rs. 1000524/-  
1248870  
Rs. 1001000/-  
1248900

## PROVISION OF INTERNAL FIXTURES DOORS & WINDOWS

1	Removing of door with chowkat.				
	Store block, Entrance, Medicine store, OPT, Blood Bank, OPD, trauma center, Dylices, Gyane,				
		37	No		
	Total:-	37	No		
	@ 438.00		Each		Rs. 16206/-
2	Removing windows and sky lights with chowkat.				
		164	No		
	Total:-	164	No		
	@ 341.50		Each		Rs. 56006/-
2	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using deluxe sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.				

main passage	71	x 3.14	x 3	x 3	/ 2	Sft
	71	x	6	x	4	1003
Gynae Block	5		4	x	8	1704
Male ward	7	x	4	x	5 1/2	160
Female ward	8	x	4	x	5 1/2	154
Medicine	3	x	4	x	8	176
	3	x	4	x	5	96
	2	x	4 1/4	x	7	60
	2	x	10	x	5	60
OPT	6	x	4	x	4 1/2	100
	4	x	2 1/2	x	3 1/2	108
B.Bank	2	x	4	x	5 1/2	35
	1	x	4	x	3	44
OPD	10	x	4	x	5 1/2	12
	4	x	4	x	5 1/2	220
	5	x	4	x	5 1/2	88
I.T	2	x	4	x	5 1/2	110
M.S	3	x	4	x	5 1/2	44
Main Ver	7	x	3	x	7	66
Main Ent:	4	x	6	x	8	147
Dialyses	6	x	6	x	5	192
	6	x	4	x	5	180
	3	x	4	x	5 1/2	120
						66
Total:-						4945
@						1348.40
PS						

2	Providing and fixing Aluminium Fly screen comprising of Fiber / Aluminium wire guaze (Malasian) fixed in aluminium frame of approved manufacturer / powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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8177631

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

Store Block	2	x	3	x	7	42	Sft
	2	x	2 1/2	x	7	35	
Medical Store opt	3	x	4	x	7	84	
	2	x	4	x	8 1/2	68	
	1	x	8	x	8 1/2	68	
	1	x	8	x	8	64	
	2	x	4 1/2	x	8	72	
	2	x	3	x	7	42	
	1	x	4	x	8 1/2	34	
Blood Bank	1	x	3 1/2	x	7	25	
OPD	1	x	4 1/2	x	8 1/2	38	
	2	x	4	x	7	56	
	1	x	4	x	6 1/2	26	
	1	x	4 1/2	x	8 1/2	38	
Trauma Centre	3	x	2 1/2	x	6 1/2	49	
	2	x	5	x	6	60	
	2	x	4	x	6	48	
Dilises	1	x	5	x	6 1/2	33	
	1	x	3 1/2	x	6 1/2	23	
Gynae	1	x	5	x	7 1/2	38	
	2	x	3 1/2	x	6 1/2	46	
	1	x	4	x	6 1/2	26	
	2	x	5 1/2	x	8 1/2	94	

Total:- 1109 Sft  
 @ 1977.80 P.Sft  
 678.55 Total:-  
 Rs. 1037101/-  
 Rs. 640000/-  
 Net Rs Rs. 973101/-  
 Rs. 291930/-  
 Rs. 10022941/-  
 Rs. 10023000/-

Credit of Old Material  
 Add 3 % Contingency Charges

Total:-  
 Say Rs.

*[Signature]*  
 Executive Engineer,  
 Buildings Division Bhakar,  
 Sub Division Bhakar,  
 Buildings Sub Division,  
 Kallur Kot

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

Qty as above.  
 1109 sft @ 727.25  
 = 806520/-  
 9736603/-  
 640000/-  
 9096603/-  
 9729mm2

Old old material  
 Add 3% Contingency

CREDIT OF OLD MATERIAL

2 Un service able doors.

Total:-  $\frac{37}{37}$  No

@ 4000.00 Each

Rs. 148000/-

3 Un service able windows


Total:-  $\frac{164}{164}$  No

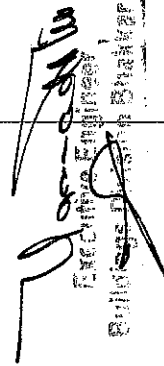
@ 3000.00 Each

Rs. 492000/-

Total Rs. 640000/-

Say Rs. Rs. 640000/-

  
Sub Division Officer,  
Buildings Sub Division,  
Kallur Kot

  
Executive Engineer,  
Buildings Sub Division

## MISCELLANEOUS REPAIR WORK

				Sft
1	Dismantling 1st class tile roofing.			
	Out Door Block	1	x	233
	Gallary	1	x	20
	Operation Block	1	x	84 5/8
	Gallary	1	x	20
	Wards	1	x	183 1/2
	Lav Block	2	x	19 1/2
		2	x	21 1/2
	Dylices	1	x	24
	Gynae	1	x	36
			x	54
	Total:-			31731

2 Single layer of tiles 9"x4½"x1½" laid over 4"(100 mm) earth and 1" (25 mm) mud plaster with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. i/c supplying and laying polythene sheet 500 gauge.

					Sft
Out Door Block	1	x	233	x	47
Gallary	1	x	20	x	90
Operation Block	1	x	84 5/8	x	52
Gallary	1	x	20	x	90
Wards	1	x	183 1/2	x	48
Lav Block	2	x	19 1/2	x	8 1/2
	2	x	21 1/2	x	11 1/2
Dylices	1	x	24	x	50
Gynae	1	x	36	x	54
Total:-					31731
@					11183.00 %Sft

10 Distempiring 2 Coats on old surface.

1	(	16	+	14	)	2	x	11 1/2	Sf
1	(	12	+	14	)	2	x	11 1/2	598
1	(	15 7/8	+	14	)	2	x	11 1/2	687
1	(	16	+	14	)	2	x	11 1/2	690
1	(	12	+	14	)	2	x	11 1/2	598
1	(	12	+	14	)	2	x	11 1/2	598
1	(	12	+	14	)	2	x	11 1/2	598
1	(	12	+	14	)	2	x	11 1/2	598
1	(	10	+	14	)	2	x	11 1/2	552
1	(	13	+	14	)	2	x	11 1/2	621
1	(	12	+	14	)	2	x	11 1/2	598
1	(	10	+	14	)	2	x	11 1/2	552
1	(	11	+	14	)	2	x	11 1/2	667
1	(	11	+	13 5/8	)	2	x	11 1/2	566
1	(	11	+	13 5/8	)	2	x	11 1/2	566
1	(	18	+	13 5/8	)	2	x	11 1/2	727
1	(	17 3/4	+	13 5/8	)	2	x	11 1/2	722
1	(	12	+	13 5/8	)	2	x	11 1/2	589
1	(	12	+	13 5/8	)	2	x	11 1/2	589
1	(	16	+	13 5/8	)	2	x	11 1/2	681
1	(	14	+	13 5/8	)	2	x	11 1/2	635
1	(	8	+	13 5/8	)	2	x	11 1/2	497
1	(	6	+	13 5/8	)	2	x	11 1/2	451
1	(	6	+	13 5/8	)	2	x	11 1/2	451

1	(	16	+	13 5/8	)	2	x	11 1/2	681	"
1	(	12	+	13 5/8	)	2	x	11 1/2	589	"
1	(	12	+	13 5/8	)	2	x	11 1/2	589	"
1	(	233	+	8	)	2	x	11 1/2	5543	"
1	(	233	+	7	)	2	x	11 1/2	5520	"
1	(	22 3/4	+	10	)	2	x	11 1/2	753	"
1	(	47	+	7	)	2	x	11 1/2	1242	"
1	(	8	+	18	)	2	x	11 1/2	598	"
1	(	20	+	18	)	2	x	11 1/2	874	"
1	(	12	+	18	)	2	x	11 1/2	690	"
1	(	13 5/8	+	18	)	2	x	11 1/2	727	"
2	(	14 5/8	+	19	)	2	x	11 1/2	1547	"
1	(	68	+	8	)	2	x	11 1/2	1748	"
2	(	19 5/8	+	46 3/4	)	2	x	11 1/2	3053	"
2	(	35 5/8	+	46 3/4	)	2	x	11 1/2	3789	"
2	(	12	+	19	)	2	x	11 1/2	1426	"
2	(	5	+	19	)	2	x	11 1/2	1104	"
2	(	9	+	19	)	2	x	11 1/2	1288	"
2	(	11	+	12	)	2	x	11 1/2	1058	"
2	(	5	+	12	)	2	x	11 1/2	782	"
2	(	10	+	15 5/8	)	2	x	11 1/2	1179	"
1	(	12	+	48	)	2	x	11 1/2	1380	"
1	(	66	+	8	)	2	x	11 1/2	1702	"
1	(	195	+	9	)	2	x	11 1/2	4692	"
1	(	1	x	16	x	14			224	"
1	(	1	x	12	x	14			168	"
1	(	1	x	15 7/8	x	14			222	"
1	(	1	x	16	x	14			224	"
1	(	1	x	12	x	14			168	"
1	(	1	x	12	x	14			168	"
1	(	1	x	12	x	14			168	"
1	(	1	x	12	x	14			168	"
1	(	1	x	10	x	14			140	"
1	(	1	x	13	x	14			182	"
1	(	1	x	12	x	14			168	"
1	(	1	x	10	x	14			140	"
1	(	1	x	15	x	14			210	"
1	(	1	x	11	x	13 5/8			150	"
1	(	1	x	11	x	13 5/8			150	"
1	(	1	x	18	x	13 5/8			245	"
1	(	1	x	17 3/4	x	13 5/8			242	"
1	(	1	x	12	x	13 5/8			164	"
1	(	1	x	12	x	13 5/8			164	"
1	(	1	x	16	x	13 5/8			218	"
1	(	1	x	14	x	13 5/8			191	"
1	(	1	x	8	x	13 5/8			109	"
1	(	1	x	6	x	13 5/8			82	"
1	(	1	x	6	x	13 5/8			82	"
1	(	1	x	16	x	13 5/8			218	"
1	(	1	x	12	x	13 5/8			164	"
1	(	1	x	12	x	13 5/8			164	"



1	x	233	x	8	1864	"
1	x	233	x	7	1631	"
1	x	22 3/4	x	10	228	"
1	x	47	x	7	329	"
1	x	8	x	18	144	"
1	x	20	x	18	360	"
1	x	12	x	18	216	"
1	x	13 5/8	x	18	245	"
2	x	14 5/8	x	19	556	"
1	x	68	x	8	544	"
2	x	19 5/8	x	46 3/4	1835	"
2	x	35 5/8	x	46 3/4	3331	"
2	x	12	x	19	456	"
2	x	5	x	19	190	"
2	x	9	x	19	342	"
2	x	11	x	12	264	"
2	x	5	x	12	120	"
2	x	10	x	15 5/8	313	"
1	x	12	x	48	576	"
1	x	66	x	8	528	"
1	x	195	x	9	1755	"
Total:- 2x1109 = 2218 sp					77591	Sft
@ 705.15 %Sft					75373	%Sft
Dld opus					531493	-
					Rs. 547134/-	-

11 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

#### Detail Attached

Total:-	18163	Sft
@	5245.30	%Sft
1925.45	Total:-	Rs. 952715/-
8 81212	5177936	Rs. 5531844/-
4454236	Balance	Rs. 223700/-
2636	Total:-	Rs. 5200144/-
		Rs. 159244/-
		Rs. 5467389/-

Credit of old Material

Add 3 % Contingency Charges

Say Rs. Rs. 5467000/-

5102863  
907648

Signature of Sub Division Officer,  
Buildings Sub Division,  
Kallur Kot


Signature of Executive Engineer,  
Buildings Sub Division, Kallur Kot

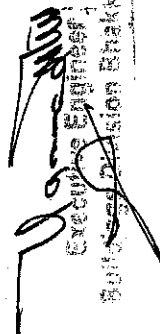
5102863  
907648  
907700/-

# EXTERNAL DEVELOPMENT

S.No	Description	No	L	H	Qty	Unit	Amount
1	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						
	Main Building	1	92	14	1288	Sft	
		1	16	14	224	Sft	
		1	8	14	112	Sft	
		1	26	14	364	Sft	
		1	24.5	14	343	Sft	
		1	20	14	280	Sft	
		1	31	14	434	Sft	
		1	21	14	294	Sft	
		1	16	14	224	Sft	
		1	6.25	14	88	Sft	
		1	7	14	98	Sft	
		1	10.5	14	147	Sft	
		1	21.25	14	298	Sft	
		1	10.5	14	147	Sft	
		1	7	14	98	Sft	
		1	6.25	14	88	Sft	
		1	33.25	14	466	Sft	
		1	4	14	56	Sft	
		1	10.75	14	151	Sft	
		1	11	14	154	Sft	
		1	2.5	14	35	Sft	
		1	10.75	14	151	Sft	
		1	4	14	56	Sft	
		1	33	14	462	Sft	
		1	6.25	14	88	Sft	
		1	7	14	98	Sft	
		1	10.5	14	147	Sft	
		1	21.25	14	298	Sft	
		1	10.5	14	147	Sft	
		1	7	14	98	Sft	
		1	6.25	14	88	Sft	
		1	15	14	210	Sft	
		1	58	14	812	Sft	
		1	175	14	2450	Sft	
		1	31	14	434	Sft	
		1	25	14	350	Sft	
		1	114	14	1596	Sft	
		1	50	14	700	Sft	
		1	37.5	14	525	Sft	
		1	4	14	56	Sft	
		1	42.82	14	599	Sft	
		1	9	14	126	Sft	
		1	40	14	560	Sft	
		1	38	14	532	Sft	
		1	59	14	826	Sft	
		1	50	14	700	Sft	
		1	16	14	224	Sft	
		1	25	14	350	Sft	
		2	41	14	1148	Sft	
	Emergency Block	2	87.25	14	2443	Sft	
		2	15.58	14	436	Sft	
					22095	Sft	

S.No	Description	No	L	H	Qty	Unit	Amount
	D/d	59	6	8	2832	Sft	
		24	4	4.5	432	Sft	
		13	6	6	468	Sft	
		40	2	2.5	200	Sft	
					3932	Sft	
				Total	18163	Sft	

  
**Sub Divisional Officer**  
 Buildings Sub Division  
 Kallur Kot

  
**Executive Engineer**  
 Sub Division Bhakkur

# CREDIT OF OLD MATERIAL

1 Un service able Tiles.

31731 x 70      2      Total:-      44423

100

*Bats*

2 Un service able tile Battens

31731 x 30      x      1      Total:-      1190

100

@ 4500.00 %ONO

Rs. 199905/-

@ 2000.00 %Cft

Rs. 23798/-

Total

Rs. 223703/-

Say Rs.

Rs. 223700/-

*Sub Division Officer,*

Buildings Sub Division,

Kallur Kot

*Executive Engineer,*  
Buildings Sub Division,  
Kallur Kot

PROVISION OF EXTERNAL SEWER LINE AND WATER SUPPLY

(ABSTRACT OF COST)

1. External Sewerage Line	Detail attached	3220200/- <del>Rs. 3449000/-</del>
2. External Water Supply.	Detail attached	890150 <del>Rs. 807000/-</del>
Total =		4110300
Add 3 % Contingency Charges		123309
		<u>4233609</u>
Say Rs:-		Rs. 4233600/-
		Rs. 4046000/- Rs. 421380/- Rs. 467380/- Rs. 4467400/-

*[Signature]*  
Sub Engineer

*[Signature]*  
Sub Division Officer  
Buildings Sub Division  
Kallur Kot

*[Signature]*  
Executive Engineer  
Buildings Sub Division  
Kallur Kot

# **PROVISION OF EXTERNAL SEWERAGE LINE.**

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

1	x	200	x	3	x	3	1800	Cft
1	x	170	x	1 1/2	x	3	765	
1	x	115	x	1 1/2	x	3	518	
1	x	170	x	1 1/2	x	3	765	
1	x	252	x	1 1/2	x	3	1134	
1	x	450	x	1 1/2	x	3	2025	
1	x	550	x	1 1/2	x	3	2475	
1	x	220	x	1 1/2	x	3	990	
1	x	150	x	1 1/2	x	3	675	

- Total:- 2277**
- Rs. 8042.17**
- Rs. 89646/-**
- ii Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., etc., complete. 18" dia

<b>Total:-</b>	<b>200</b>	<b>Rft</b>
<b>@</b>	<b>1181.80</b>	<b>P-Rft</b>
		<b>Rs. 236360/-</b>

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

<b>Total:-</b>	<b>707</b>	<b>Rft</b>
<b>@</b>	<b>695.60</b>	<b>P-Rft</b>
		<b>Rs. 491789/-</b>

- ii Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., etc., complete. 9" dia

<b>Total:-</b>	<b>1370</b>	<b>Rft</b>
<b>@</b>	<b>528.30</b>	<b>P-Rft</b>
		<b>Rs. 723771/-</b>

- 3 Re handling of earth lead upto a single throw of kassi pahora etc:

Take 2/3 of Qty of item No.1	11147	x	2/3	Cft
<b>Total:-</b>	<b>@</b>	<b>7431</b>		
		<b>1914.00</b>		<b>%0Cft</b>
				<b>Rs. 14224/-</b>

- 4 Construction Of Man Hole 4' Dia .

Detail Attached	50	No
<b>Total:-</b>	<b>50</b>	<b>No</b>
<b>33288</b>	<b>@</b>	<b>33288.00</b>
		<b>Rs. 1664400/-</b>
		<b>Rs. 3220190</b>
		<b>Rs. 3220200</b>

Say.

**Sub Engineer**  
Buildings Sub Division  
Kallur Kot

**Sub Division Officer**  
Buildings Sub Division  
Kallur Kot

# ANALYSIS FOR CONSTRUCTION OF MAN HOLE 4' DIA UPTO 7' DEPTH

1 Excavation in open cutting for sewer and manhole.

$$3 \frac{1}{7} \times 6.5 \times 6.50 \times 5.00 \times 0.25 = 166 \text{ Cft}$$

$$@ \frac{7996.15}{100} \% \text{ Cft} = \text{Rs. } 1335/-$$

8042-17

2 Cement concrete brick or stone ballast 1½" to 2" gauge in foundation and plinth 1 : 6 : 12.

$$3 \frac{1}{7} \times 6.5 \times 6.50 \times 0.50 \times 0.25 = 17 \text{ Cft}$$

$$\text{Total:-} = 17 \text{ Cft}$$

$$@ 21119.65 \% \text{ Cft} = \text{Rs. } 3590/-$$

3 Pacca brick work 1:4 cement sand mortar other than building 10' height i/c extra cost of pacca brick work in staining of walls or any other circular masonry.

$$1 \times 22/7 \times \frac{4.75 + 2.88}{2} \times 4 \times 4.5 = 40 \text{ Cft}$$

$$2 \times 22/7 \times 3/4 \times 3/4 \times 1/4 \times 3/4 = 1$$

Total:-

$$= 39 \text{ Cft}$$

$$@ 28884.35 \% \text{ Cft} = \text{Rs. } 11265/-$$

$$24026.5 + 1119.35$$

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

$$1 \times 22/7 \times 4 \times 4 \times 1/4 \times 1/4 = 3 \text{ Cft}$$

$$1 \times 22/7 \times 2 - 7/12 \times 3/4 \times 1/3 = 2$$

Total:-

$$= 5 \text{ Cft}$$

$$@ 38178.90 \% \text{ Cft} = \text{Rs. } 1909/-$$

5 Cement plaser 1:4 upto 20' height 1/2" thick.

$$\text{O/S } 1 \times 22/7 \times (4 - 3/8 + 2 - 3/8) \times 4 - 1/2 = 48 \text{ Sft}$$

$$\text{O/S } 1 \times 22/7 \times (5 - 7/8 + 3 - 7/8) \times 1 - 1/2 = 23 \text{ Sft}$$

$$1 \times 22/7 \times (4 - 3/8 + 4 - 3/4) \times 1 - 1/2 = 29 \text{ Sft}$$

Total:-

$$@ 3245.95 \% \text{ Sft} = \text{Rs. } 3246/-$$

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

$$= 1 \text{ No.}$$

Total:-

$$= 1 \text{ No.}$$

$$@ 11561.60 \text{ Each} = \text{Rs. } 11562/-$$

8 Extra for making and finishing benching floor work in man hole chamber with 1/8" thick cement finish.

$$1 \times 22/7 \times 4 \times 4 \times 1/4$$

$$= 13 \text{ Sft}$$

$$@ 2934.10 \% \text{ Sft} = \text{Rs. } 381/-$$

$$\text{Total:} = \text{Rs. } 33288/-$$

*Dr. P. S. Reddy*  
Sub Engineer

*P. S. Reddy*  
Sub Division Officer  
Buildings Sub Division  
Kallur Kot

*P. S. Reddy*  
Freelance Engineer  
Buildings Sub Division  
Kallur Kot

# PROVISION OF EXTERNAL WATER SUPPLY.

1 Ear thwork excavat ion of trenches in open cut t ing f or sewers and manhol e chambers, etc. bel ow sub-soi l water level for rect ion and dimensions accordi ng to templates and levels, including shoring, timbering and shuttering of M.S. sheets on both sides of the trenches 0 f t. x 0.40 f t. (0 to 1.20 m) depth below SSWL.

*Excavation 7 Trenches in all kind 7 Soil*

1 1 x 1460 x 1/2 x 1 730 Cft

Total 730 Cft

5565/-  
Rs. 12152/-

1 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular / Beta or equivalent) with speci f i ed pressure rat i ng PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, speci al s.maki ng jharries compl ete in all respect as approved and di rected by Engineer Incharge.(Internal /External Diameters mentioned).PN-20 pipe 25 mm.

7629.75 @ 11037.85 %0Cft

Total 410 Rft

Rs. 27265/-

1 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular / Beta or equivalent) with speci f i ed pressure rat i ng PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, speci al s.maki ng jharries compl ete in all respect as approved and di rected by Engineer Incharge.(Internal /External Diameters mentioned).PN-20 pipe 35mm.

Total 410 Rft

Total 450 Rft

Rs. 48105/-

1 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular / Beta or equivalent) with speci f i ed pressure rat i ng PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, speci al s.maki ng jharries compl ete in all respect as approved and directed by Engineer Incharge.(Internal /External Diameters mentioned).PN-20 pipe 110 mm.

Total 600 Rft

Rs. 809130/-

Total 1348.55 P-Rft

Rs. 896952/-  
890065/-  
Rs. 807000/-

Say.

890/00/-

*Dr. Ravi*  
Sub Engineer

*[Signature]*  
Sub Division Officer  
Buildings Sub Division  
Kallur Kot

*[Signature]*  
Executive Engineer  
Buildings Sub Division  
Kallur Kot



ANTI BACTERIAL FLOOR---VINYL FLOOR-----DAMPA CEILING---MICROBIAL WALL PANELING

Supply and installation anti microbial Hygenic flooring (with anti bacterial agent ) conforming to (ISO:22196) of specified thickness duly welded with thermoplastic equipment placed over self levelling adhesive as approved and directed by the Engineer Incharge.	
(a) <del>Common</del> urethane	
(b) <del>Epoxy</del>	
(c) Polyurethane	
(d) Urethane	
2	Dampa ceiling with clip in or hook on suspension for the prevention of bacteria etc.
3	Supply and installation premium graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"x2"x3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by The Engineer In-charge
Supply and installation of Clip-in tile of specified thickness non-porous Aluminium false ceiling of specified size fitted with 'Clip-in' suspension system hanged on Concealed T/Shipiap edge/runners @ 600 mmX600 mm grid,Edge Trims fasten on wall with plug and screw @ 500 mm c/c i/c cutting charges of tiles to required size,suspension rods and joints sealed with silicon if required of DAMPA/Demark, as approved and directed by the Engineer Incharge.	
(A) 0.6 mm thick	
(a) Sharp edges & flange 19.5 mm	
(i)400 mmX 400 mm	
if 0.7 mm thick used increase composite rate by 5 %.	

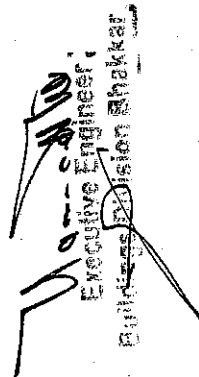
Remarks	Amount	Rate	Qty	Unit					
					1	P.Sft	2351	935	2198185
					1	P.Sft	2351	510	1199010
					1	P.Sft	2641	513	1354833
								Total	4752028
								Add 3% Contingency	142561
								Total	4894589
								Say Rs.	4894600

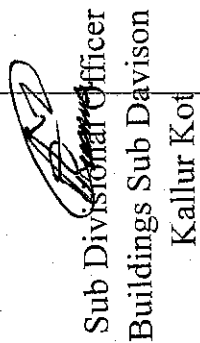
Sub Divisional Officer  
Buildings Sub Davison  
Kallur Kot

*[Signature]*  
Executive Engineer  
Buildings Sub Division  
Kallur Kot

ANTI BACTERIAL FLOOR---VINYL FLOOR----DAMPA CEILING---MICROBIAL  
WALL PANELING

S.No	Description	Nos	Length	Breadth	Depth	Qty
1	Supply and installation anti microbial Hygenic flooring AND Dampa ceiling					
	O.T	2	20	18		720 Sft
		2	13.5	18		486 Sft
	Corridor	1	31	8.625		267 Sft
	Delivery	1	13.625	18		245 Sft
	Labour Room	1	16	13.625		218 Sft
	Clean Area	1	23	8.625		198 Sft
	Sterilization	1	12	18		216 Sft
					Total	2351 Sft
2	Supply and installation anti microbial Hygenic wall paneling ceiling					
	O.T		2x2(20+18)9.5			1444 Sft
			2x2(13.5+18)9.5			1197 Sft
					Total	2641 Sft

  
Executive Engineer  
Buildings Division Shaker

  
Sub Divisional Officer  
Buildings Sub Davison  
Kallur Kot

Lead Lining

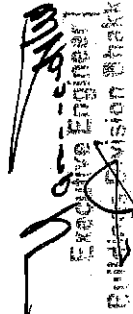
S.No	Description		Unit	Qty	Rate	Amount	Remarks
1	Lead Lining/other fixing material complete with all respect as approved by Engineer Incharge.	1	P.Sft	372	595	221173	
					Total	221173	
	Add 3% Contingency					6635	
	Total					227808	
	Say Rs.					227800	


Sub Divisional Officer  
Buildings Sub Division  
Kallur Kot

*[Signature]*  
Executive Engineer  
Buildings Division Bhakkar

**ANALYSIS OF RATE FOR THE ITEM P/F Lead Lininfg/other fixing material**  
**complete with all respect as approved by Engineer Incharge.**

S.No	Description	Nos	Length	Breadth	Depth	Qty
1	Lead Lininfg/other fixing material complete with all respect as approved by Engineer Incharge.					
	X-ray room	1	13.375	17.25		231 Sft
	Filem store	1	8	8.625		69 Sft
	Dark room	1	8	9		72 Sft
					<b>Total</b>	<b>372 Sft</b>

  
 Executive Engineer  
 Buildings Division Chakkai

  
 Sub Divisional Officer  
 Buildings Sub Division  
 Kallur Kot

# ABSTRACT OF FIRE ALARAM SYSTEM

1 Provision of fire alarm system.

	1	Job	Rs. 1484400/-
	1	Job	Rs. 1484400/-
	@ 1484400.00	P.Job	Rs. 44532/-
		Total	Rs. 1528932/-

Add 3% Contingency

Say Rs. Rs. 1528900/-

Sub Divisional Officer,  
Buildings Sub Division,  
Kallur Kot

Deputy Engineer  
Buildings Division  
Kallur Kot

**ENGINEER INCHARGE.**

**ENGINEER INCHARGE.**  
**(FIRE FITTING / FIRM ALARAM BY HITEK)**

— Say Rs: =

**Say Rs 1484400/-**

*V. B. B. B.*  
Sub Divisional Officer,  
Buildings Sub Division,  
Kallur Kot

**ANALYSIS OF RATE FOR THE ITEM "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**

Take 100 Sft for analysis purpose.

UNIT OF RATE = P-SFT

Sr. No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
1	A) MATERIAL. P/L Antimicrobail Vinyl floor	100 Sft	P-Sft	4675.00	467500.00
		100 Sft			
		100 Sft			
2	Fixing Charges		P-Sft	2.00	200.00
<b>TOTAL - A</b>					<b>467700</b>

ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHARGES  
**OVER ALL TOTAL**

RATE PER Sft = 935.4  
Say Rs: = 935/- P.Sft

93540  
93540

*[Signature]*  
Sub Engineer

*[Signature]*  
Sub Division Officer  
Buildings Sub Division  
Kallur Kot

*[Signature]*  
Executive Engineer,  
Buildings Division Bhadrak

**ANALYSIS OF RATE FOR THE ITEM P/F Lead Lining/other fixing material  
complete with all respect as approved by Engineer Incharge.**

Take 100 Sft for analysis purpose.  
UNIT OF RATE = P-SFT

Sr. No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
<b>A) MATERIAL.</b>					
1	P/L Lead Lining	100 Sft	P-Sft	2970.00	297000.00
		100 Sft	P-Sft		
		100 Sft	P-Sft	3.00	300.00
	<b>TOTAL - A</b>				<b>297300</b>

2 Fixing Charges

ADD 20% CONTRACOR'S PROFIT + OVER HEAD CHRAGES

**OVER ALL TOTAL**

RATE PER Sft = 594.6

Say Rs: = 595/- Sft

*Dr. Rehul*  
Sub Engineer

Sub Division Officer,  
Buildings Sub Division,  
Kallur Kot

*[Signature]*  
Sub Division Officer,  
Buildings Sub Division,  
Kallur Kot



**ANALYSIS OF RATE FOR THE ITEM Provision of Reception Counters Made of MD Sheet and Glass 5mm upper case complete in all respect.**

Sr. No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
<b>A) MATERIAL.</b>					
1	P/L Reception Counters Made of MD Sheet and Glass 5mm upper case complete in all respect.	1 No	P.Job	27500.00	27500.00
		1 No			
		1 Job			
2	Carrage Charges		P.Job	200.00	200.00
	<b>TOTAL - A</b>				<b>27700</b>

ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES  
**OVER ALL TOTAL**

5540  
**33240**

RATE P.Job = 33240.0  
**Say Rs: = 33240/- P.Job**


*[Signature]*  
Sub Engineer  
Kallur Kot

*[Signature]*  
Sub Divisional Officer,  
Buildings Sub Division,  
Kallur Kot


*[Signature]*  
Executive Engineer  
Buildings Sub Division,  
Kallur Kot

**ANALYSIS OF RATE FOR THE ITEM "PROVIDING AND FIXING OF DAMPA  
CEILING WITH CLIP IN OR HOOK ON SUSPENSION FOR THE PREVENTION OF  
BACTERIA ETC. AS APPROVED BY ENGINEER INCHARGE .**

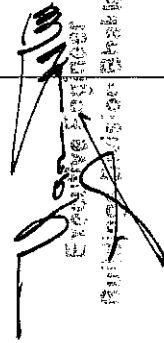
Take 100 Sft for analysis purpose.		UNIT OF RATE = P-SFT			
Sr. No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
<b>A) MATERIAL.</b>					
1	P/L Dampa Ceiling	100 Sft	P-Sft	2540.00	254000.00
		<b>100 sft</b>			
2	Fixing Charges	<b>100 sft</b>		P-Sft	8.00
<b>TOTAL - A</b>					<b>254800</b>
ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES					
<b>OVER ALL TOTAL</b>					
RATE PER Sft =				509.6	50960
Say Rs: =				<b>510/- Sft</b>	



Sub Engineer



Sub Divisional Officer  
Buildings Sub Division  
Kallur Kot



Executive Engineer  
Buildings Sub Division  
Kallur Kot

**ANALYSIS OF RATE FOR THE ITEM Supply and installation premium graded/scratch-resistant Hygienic anti-microbial Pvc wall cladding of specified thickness duly thermoplastic welded conforming to (ISO:22196) and pasted over 12mm thick gypsum board with adhesive/solvent fixed over 14-SWG G.I Channael of size 3.5"x2"x3.5" duly screwed on wall i/c the cost of hardwares as approved and directed by The Engineer In-charge**

Take 100 Sft for analysis purpose. UNIT OF RATE = P-SFT					
Sr. No:	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE	AMOUNT
<b>A) MATERIAL.</b>					
1	P/L Dampa Ceiling	100 Sft	P-Sft	2555.00	255500.00
		<b>100 Sft</b>			
2	Fixing Charges	<b>100 Sft</b>		8.00	800.00
<b>TOTAL - A</b>					<b>256300</b>
ADD 20% CONTRACROR'S PROFIT + OVER HEAD CHRAGES					
<b>OVER ALL TOTAL</b>				512.6	51260
RATE PER Sft =				513/- Sft	
Say Rs: =					

*[Signature]*  
Sub Engineer

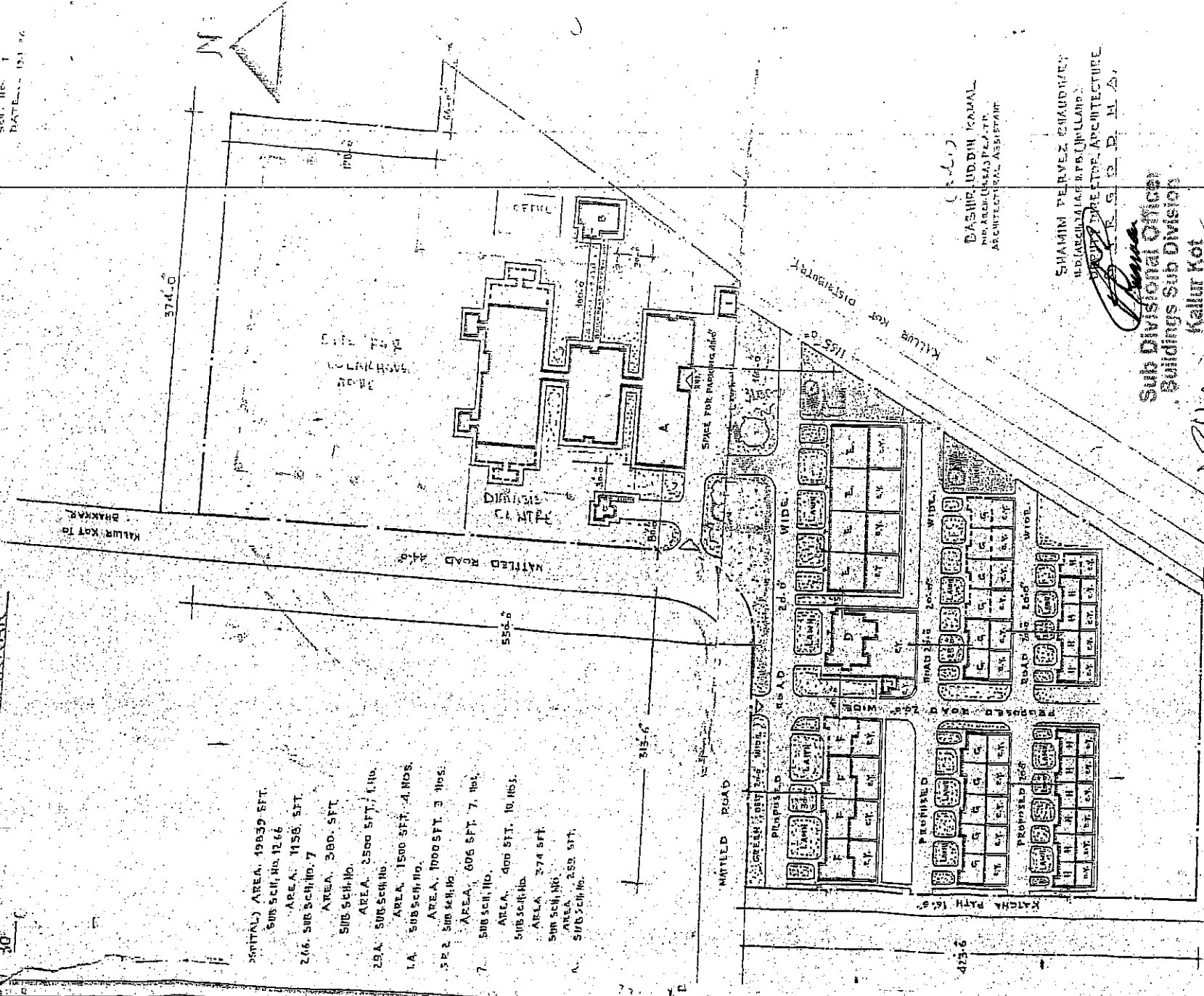
*[Signature]*  
Sub Divisional Officer,  
Buildings Sub Division,  
Kallur Kot

*[Signature]*  
Executive Engineer,  
Buildings Sub Division,  
Kallur Kot

# PLAN OF THE HOSPITAL FOR KOT DISTRICT BHAKKAR

DR. G. H. H. H.  
S. H. H. H.  
DATE: 1915

- HOSPITAL AREA, 19839 SFT.  
SUB SCH. No. 1266
- AREA, 1158 SFT.  
266 SUB SCH. No. 7
- AREA, 380 SFT.  
SUB SCH. No.
- AREA, 2500 SFT. (No.  
SUB SCH. No.
- AREA, 1500 SFT. 4 NOS.
- 1A SUB SCH. No.
- AREA, 1000 SFT. 3 NOS.
- 5P2 SUB SCH. No.
- AREA, 606 SFT. 7 NOS.
- 7 SUB SCH. No.
- AREA, 400 SFT. 10 NOS.
- SUB SCH. No.
- AREA, 374 SFT.
- SUB SCH. No.
- AREA, 259 SFT.
- SUB SCH. No.



(S.D.)  
DASHIR UDDIN KADAL  
MR. ADHIKARI P. J. P.  
ARCHITECTURAL ASSISTANT

SHAMIM PERVEZ CHAUDHRY  
MR. ADHIKARI P. J. P.  
MR. ADHIKARI P. J. P.  
DIRECTOR, ARCHITECTURE  
P. O. S. D. B. H. S.

Sub Divisional Officer  
Buildings Sub Division  
Kallur Kot

Sub Divisional Officer  
Buildings Sub Division  
Kallur Kot

EXECUTIVE ENGINEER  
PROV. BUILDINGS DIVISION  
BHAKKAR

REFERENCE

1 DST ROAD

2 TUFF TILE



October 5, 2022.

M/s:  
Att:

Executive  
Engineer ,  
building  
division  
Bhakkar

Subject: QUOTATION FOR RO PLANT 4000 LPH

Dear Sir,

Reference to your inquiry regarding RO Plant 4000 LPH for your required capacity, we are suggesting you the following system and we are pleased to quote you our best possible price of subject system for your kind consideration. We hope you will find it very competitive and comprehensive.

If you have any ambiguity in your mind regarding subject inquiry, please don't hesitate to contact us.

Thanks and best regards,

hassanmarketing@gmail.com

info@waterzone.com.pk

www.waterzone.com.pk



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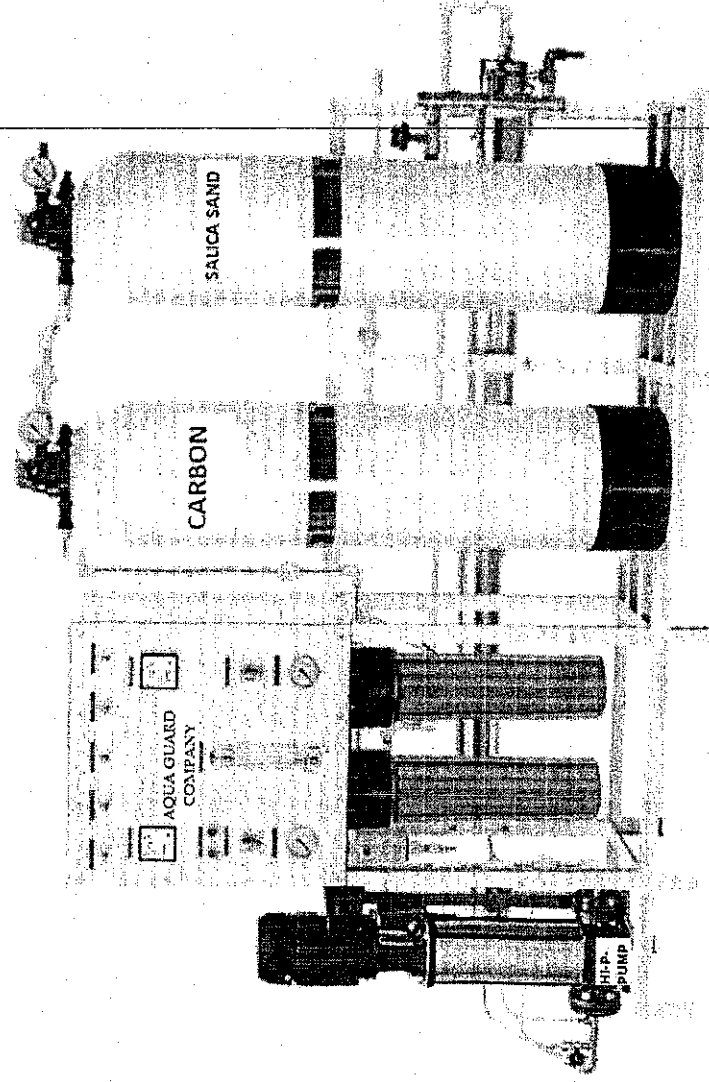
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65-C Canal Bank Extension,  
Canal Road, Lahore



## REVERSE OSMOSIS (RO) PLANT

The system is designed on the following parameters

Raw Water TDS (Maximum)	<1500 ppm
Product Water TDS with Blending	~300 ppm
Product Water TDS	<50 ppm
Reverse Osmosis Plant Capacity	4 Ton
Product Water Flow Rate with Blending	35 GPM
Product Water Flow without blending	16 GPM

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Canal Road, Lahore



Index:

Sr. #	Particulars	Make/Size	Qty.
01	LOW PRESSURE FEED PUMP	8m³ / hr (Grundfos, Germany) R.F	01
02	MULTI-MEDIA SAND FILTER	21" x 62"	01
03	CARTRIDGES ASSEMBLY - PPF 5 Micron	SS 304 (PPF - 5M)	01
04	ONLINE DOSING PUMP FOR ANTI-SCALE	Italy	01/01
05	REVERSE OSMOSIS FRAME	Stainless Steel	01
06	HIGH PRESSURE PUMP AND MOTOR	8m³ / hr (Grundfos) R.F	01
07	REVERSE OSMOSIS ASME APPROVED HOUSINGS	8" x 90" (1S)	02
08	REVERSE OSMOSIS MEMBRANES	Filmtech / Canature / Equivalent 8" x 40"	04
09	HIGH PRESSURE CONCENTRATE VALVE	S.S	02
10	PRESSURE GUAGES	2.5"	03
11	HIGH PRESSURE SWITCHES	Grey	01
12	ONLINE FLOWMETER	40 GPM	02
13	ONLINE TDS METER	Taiwan	01
14	CI3P SYSTEM	-	01
15	ON3LINE FLUSHING SYSTEM	SOV	01
16	CONTROL PANEL	Water Zone	01
17	FITTING UPVC HIGH PRESSURE	Era, Taiwan	01 Set
18	STORAGE TANK 1000 Gallon (4000 ltr)	Master Tuff	01

Dear Sir,

[hassanmarketing@gmail.com](mailto:hassanmarketing@gmail.com)

[info@waterzone.com.pk](mailto:info@waterzone.com.pk)

[www.waterzone.com.pk](http://www.waterzone.com.pk)

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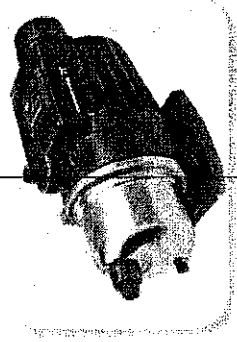
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Supply & Installation of Complete R.O (Reverse Osmosis) Plant of said Capacity, the entire system shall have based on the following parameters and detail specification

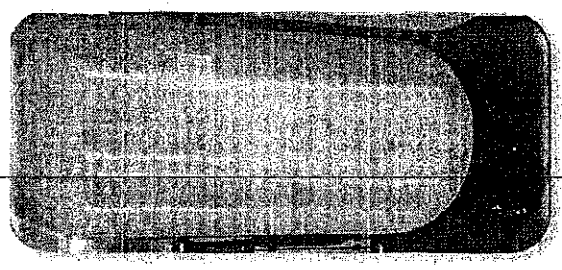
**1. Feed Pump:**

Quantity	01 Nos.
Capacity	5m <sup>3</sup> / hr
Discharge Pressure	4.0 bar
Type	Vertical/Horizontal, Centrifugal
Brand	Grundfos / Lowara
Condition	Refurbished



**2. Sand Filters:**

Quantity	01 Nos.
Model of Vessel	21"x62"
Material of Vessel	FRP
Design Pressure	150 PSI
Make of Vessel	Pentair / Canature / Equal
Operation	Manual
Type of Control Valve	Top Mounted
Size of Valve	2"
Filling Media	Gravel, Silica Sand, Anthracite
Piping	UPVC

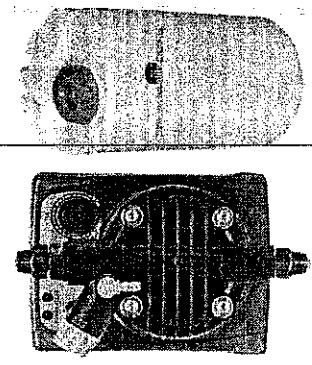


**03 -µm Cartridge Assembly Pre-Filtration:**

Housing Qty	01
Material of Housing	Stainless Steel
PPF in One Housing	04 / 06
Size of Cartridge	20"

**04. Online Chemical Dosing Pumps:**

No of Pumps	01 No's
Chemicals	Antiscalant
Capacity of each Pump	5 liters/hr
Type of Pumps	Diaphragm
Material of Pump	PTFE/PE/PVC
Pipe Size	3/8"
Power Supply	220v, AC, 50-60Hz
Make	Aqua Italy
Volume of Chemical tank	80 lits.
Material of Tank	PE (Polyethylene)



hassanmarketing@gmail.com

info@waterzone.com.pk

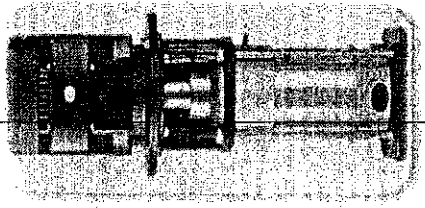
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65-C Canal Bank Extension,  
Canal Road, Lahore



**05-Reverse Osmosis SKID :**  
The system would be mounted on a stainless steel skid



**06-High Pressure R.O Pump:**

Quantity	01 No's
Material	SS-316
Capacity	8m <sup>3</sup> /hr
Discharge Pressure	14~16 bar
Type	Vertical, Centrifugal
Brand	Grundfos
Condition	Refurbished

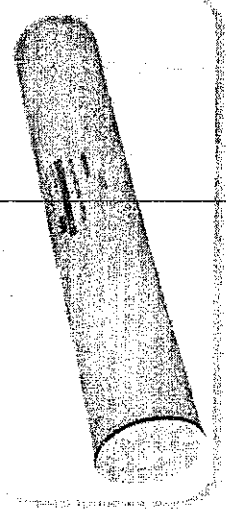
**07-Membrane Housings:**

Quantity	02 No
Size	8" x90"
Pressure Rating	300 PSI
Elements per Vessel	02 No's
Material of Vessel	FRP



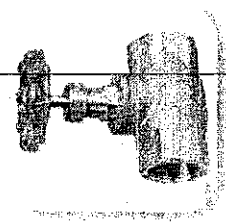
**08-Reverse Osmosis Membrane:**

Quantity	04 pcs
Membrane Surface Area	400 Sq. ft
Type of Membranes	Spiral wound
Material of Membranes	TFC
Make	Filmtech / Canature Equal



**09-High Pressure Concentrate Valve:**

Permeate Flow Rate	4,000 lit/hr
Recovery	50~60%
Raw Water Flow Rate	8,000 lit/hr
Raw Water Temperature	25~35°C
Raw Water Type	Bore / Well water
Permeate TDS	<100 ppm



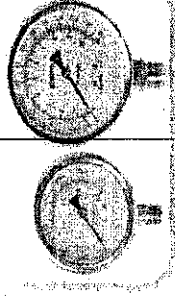
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**10-Pressure Gauges:**

Quantity	As per requirement
Dial Size	2.5"
Material of Gauges	SS-316
Connection Type	Bottom or back



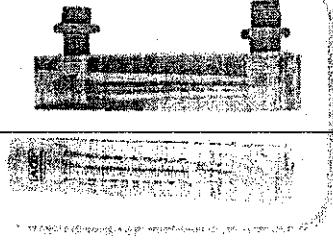
**11-Pressure Switch:**

Quantity	02 Nos.
----------	---------



**12-Online Flow Meter:**

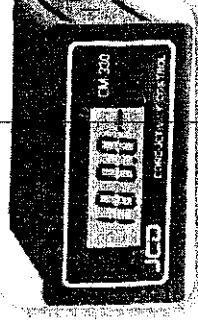
Quantity	02 Nos.
Configuration	Round/Flat
Capacity	40 GPM



**13-Online TDS Meter :**

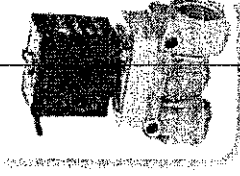
An online TDS meter would be installed on system for monitor online TDS of Product Water.

This instrument is a combined control instrument of a Reverse Osmosis monitor and online conductivity instrument. It can perform the operation test status control and online monitoring of water quality, conductivity monitor.



**14-Clean in Place (CIP) System**

Clean in Place (CIP) System would be installed to clean the periodic cleaning of RO membrane.



**15-Online Flushing System**

Online flushing system is available here in the system for the completion of R.O.

Quantity	One
----------	-----

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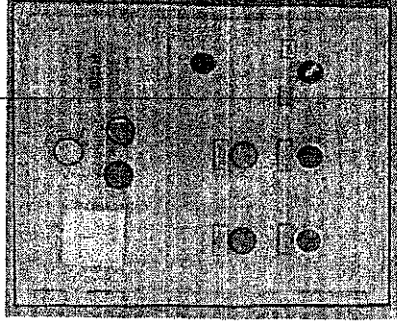
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## 16- CONTROL PANEL:

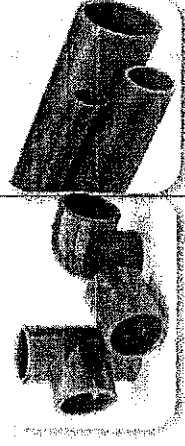
control panel would be provided to control the operations of the whole system.

Installation	Indoor
Access	Front
Material	MS



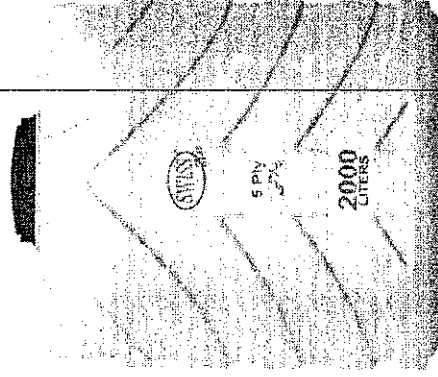
## 17-Plant Fitting UPVC:

Size	2"/1.5"
Material	UPVC
Pressure	Sch 80



## 18-Storage Tanks:

Capacity	1000 Gallons (4000 Liters)
Brand	Master / Equal
Qty (1 Ton)	01



## PRICE:

**RO Plant 4,000 LPH**

**Rs. 1,750,000 /-**

Note: The Prices are without government Taxes (GST & withholding).

## STANDARD DELIVERY TIME:

**15 Days**

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Canal Road, Lahore

**INSTALLATION:**

Water Zone engineers will do complete installation of system.



**Terms & Conditions**

**Payment:**

70% advance with PO.  
30% after completion of installation

**Payment Mode:**

Cheque / Cash

**Offer Validity:**

10 Days

**NOTE:**

- Technical changes are reserved to optimize the performance. In case of delay in installation & Commissioning due to reasons not attributed to Company. The payment should be released maximum after 7 days from the date of delivery of equipment at site.

**Exclusions:**

- ✚ All th & etc.
- ✚ Water inlet in plant room / outgoing Drain lines.
- ✚ Civil Work & Plumber Work in Plant Room
- ✚ Fitting of UPVC at site would be charged as per bill of consumed items or it would be arranged by the client.
- ✚ Site clearance.
- ✚ All the pictures are for reference
- ✚ Fare by Client Factory to Site.

**Inclusions:**

- ✚ Supervision of installation & commissioning of the plant.

**Backup:**

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8. ANNUAL OPERATING COST (POST COMPLETION)

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

**Grant Number:**Government Buildings - (PC12042)  
**LO NO:**LO22010066  
**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:**LO22010066  
**A/C To be Credited:**Account-I

		PKR Million
Sr #	Object Code	
Total		

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

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

## **9. DEMAND AND SUPPLY ANALYSIS**

### **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.

### **Financial Plan and Mode of Financing**

The project will be executed / financed through Annual Development Program under the sector Primary and Secondary Healthcare Department, the Government of Punjab. Year wise financial utilization is as under:

#### **Revenue Side**

(Rs.in  
Million)

Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Funds Released	59.000	21.925	2.681	2.378	4.595	7.341	97.920
Utilization	35.792	21.924	2.627	2.164	4.570	0.777	67.855

#### **Capital Side:**

Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Funds Released						5.000	5.000
Utilization						0.000	0.000

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



## **10.4 WEIGHT COST OF CAPITAL INFORMATION**

undefined

## **11. PROJECT BENEFITS AND ANALYSIS**

### **11.1 PROJECT BENEFIT ANALYSIS INFORMATION**

#### **11.3 Social Benefits with Indicators**

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

##### **11.3.1 Social Impact:**

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

### **11.2 ENVIRONMENTAL IMPACT ANALYSIS**

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

### **11.3 PACT ANALYSIS**

### **11.4 ECONOMIC ANALYSIS**

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

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### **11.5 FINANCIAL ANALYSIS**

#### **11. Project Benefits and 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**

From September, 2017 to June, 2025

## **12.2 RESULT BASED MONITORING (RBM) INDICATORS**

undefined

## **12.3 IMPLEMENTATION PLAN**

### **12. 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

## **12.4 M&E PLAN**

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

## **12.5 RISK MITIGATION PLAN**

Attached.

## RISK REGISTER

### Programme for Revamping of all THQ Hospitals in Punjab

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

## 12.6 PROCUREMENT PLAN

undefined

## 13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

The Organogram of new Health Management Structure is available in PC-I

## 14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

NA

## 15. CERTIFICATE

**Focal Person Name:**Mr. KHIZAR HAYAT

**Designation:**Project Director, PMU P&SHD

**Email:**

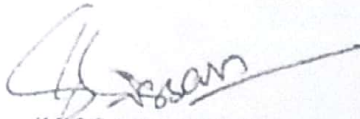
**Tel. No.:**042-99231206

**Fax No:**

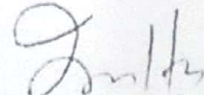
**Address:**31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

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

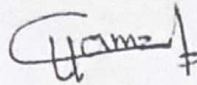
Prepared By:



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(Oct-2022)

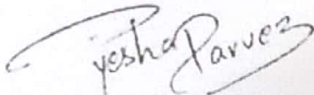


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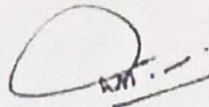


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