



PC-1

Revamping of THQ Hospital, Sadiqabad District Rahim Yar Khan

|                             |   |
|-----------------------------|---|
| ORIGINAL APPROVED COST      | <b>PKR Million. 368.473/-</b>             |
| ORIGINAL APPROVED GESTATION | <b>72 Months</b><br><b>Till June 2025</b> |
| APPROVAL FORUM              | <b>DDSC (DDSC)</b>                        |

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

Revamping of THQ Hospital, Sadiqabad District Rahim Yar Khan

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

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

I. RAHIM YAR KHAN

### **2.2. TEHSIL(S)**

I. SADIQABAD

## **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

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

#### 4. PLAN PROVISION

| Sr # | Description  |
|------|--|
| 1    | <b>Source of Funding:</b> Scheme Listed in ADP CFY   |
| 2    | <b>GS No:</b> 5293   |
| 3    | <b>Total Allocation:</b> 0.000   |
| 4    | <b>Comments:</b><br>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 than diagnosed the medicine or either to admit it after his examination. In case of medicine he will be sent to hospital pharmacy where again the same ticket number will be displayed. There have to be an option available with the doctor to either redirect him to the hospital pharmacy or other (medical tests, referred to IPD). On displaying the same token number at pharmacy counter the patient will move to pharmacy counter along with his token number and registration slip and take prescribed medicine. Patient will be disposed from that window and process of QMS will be completed. There will be no entry in the basic registration software on the counters of triage, doctor at the moment. 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)

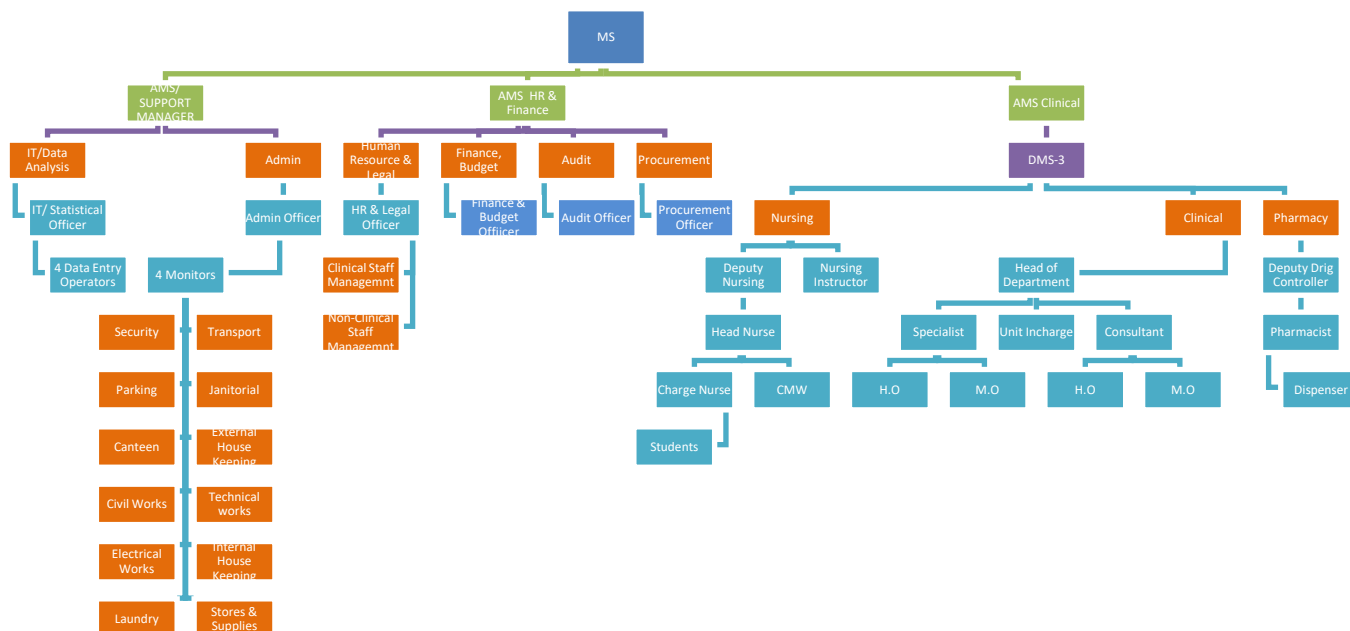
#### **5.7.3.3 Attendant / Care Giver**

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

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

The scheme has been estimated on face of the factual basic requirements and if needed, alterations and has been quoted in this PC-1. The Population of Tehsil Sadiqabad District Rahim Yar Khan is more than 0.527 million. The area of the THQ Hospital Sadiqabad District Rahim Yar Khan is 516,231 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 THQ Sadiqabad District Rahim Yar Khan.

Revamping of THQ Sadiqabad District Rahim Yar Khan 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<br>(8% annual incr.)        | 75,000               |
| Assistant Admin Officer   | PPS-5                         | 50,000-75000<br>(10% annual incr.)         | 50,000               |
| Data Entry Operator   | PPS-3                         | 35,000-55,000<br>(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. 154.238 million to Rs. 14.179 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:

PROJECT MANAGEMENT UNIT  
PRIMARY & SECONDARY HEALTHCARE DEPARTMENT



LOCATION OF DHQ AND THQ HOSPITALS IN PUNJAB



## **6.2 SECTORAL SPECIFIC INFORMATION**

Social Sectors, Health Department

## 7. CAPITAL COST ESTIMATES

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

**Grant Number:**Development - (PC22036)  
**LO NO:**LO17011170  
**A/C To be Credited:**Assan Assignment

PKR Million

| S<br>r<br># | 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   | 119.124   | 0.000   | 100.000   | 0.000   | 100.000   | 0.000   |
| Total       |                  | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 119.124   | 0.000   | 100.000   | 0.000   | 100.000   | 0.000   |

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

**Grant Number:**Government Buildings - (PC12042)  
**LO NO:**LO21010609  
**A/C To be Credited:**Account-I

PKR Million

| S<br>r<br># | 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   | 49.349    | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |
| Total       |                        | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 49.349    | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |

| Abstract of Cost                                     |                 |         |         |             |         |         |             |         |         |              |         |         |             |         |         |
|--|-----------------|---------|---------|-------------|---------|---------|-------------|---------|---------|--------------|---------|---------|-------------|---------|---------|
| Revamping of THQ Hospital Sadiqabad                  |                 |         |         |             |         |         |             |         |         |              |         |         |             |         |         |
| Scope of work  | Original        |         |         | 1st Revised |         |         | 2nd Revised |         |         | Amended Cost |         |         | 3rd Revised |         |         |
|  | Cost in million |         |         |             |         |         |             |         |         |              |         |         |             |         |         |
|  | Capital         | Revenue | Total   | Capital     | Revenue | Total   | Capital     | Revenue | Total   | Capital      | Revenue | Total   | Capital     | Revenue | Total   |
| Capital component                                    |                 |         |         |             |         |         |             |         |         |              |         |         |             |         |         |
| Internal development                                 | 0.000           | 25.530  | 25.530  | 0.000       | 25.530  | 25.530  | 27.824      | 10.000  | 37.824  | 31.682       | 10.000  | 41.682  | 31.682      | 10.000  | 41.682  |
| External development                                 | 0.000           | 3.475   | 3.475   | 0.000       | 3.475   | 3.475   | 11.122      | 0.000   | 11.122  | 14.209       | 0.000   | 14.209  | 14.209      | 0.000   | 14.209  |
| Water filtration plant                               | 0.000           | 5.600   | 5.600   | 0.000       | 5.600   | 5.600   | 3.060       | 0.000   | 3.060   | 3.458        | 0.000   | 3.458   | 3.458       | 0.000   | 3.458   |
| Total Capital Component                              | 0.000           | 34.605  | 34.605  | 0.000       | 34.605  | 34.605  | 42.007      | 10.000  | 52.007  | 49.349       | 10.000  | 59.349  | 49.349      | 10.000  | 59.349  |
| Revenue component                                    |                 |         |         |             |         |         |             |         |         |              |         |         |             |         |         |
| Emergency  | 0.000           | 23.043  | 23.043  | 0.000       | 23.043  | 23.043  | 0.000       | 32.158  | 32.158  | 0.000        | 32.158  | 32.158  | 0.000       | 53.075  | 53.075  |
| MSDS   | 0.000           | 8.647   | 8.647   | 0.000       | 8.647   | 8.647   | 0.000       | 9.654   | 9.654   | 0.000        | 9.654   | 9.654   | 0.000       | 13.438  | 13.438  |
| Med. Machinery and Equipment                         | 0.000           | 49.608  | 49.608  | 0.000       | 49.608  | 49.608  | 0.000       | 67.541  | 67.541  | 0.000        | 67.541  | 67.541  | 0.000       | 104.090 | 104.090 |
| Electricity  | 0.000           | 17.180  | 17.180  | 0.000       | 17.180  | 17.180  | 0.000       | 17.180  | 17.180  | 0.000        | 17.180  | 17.180  | 0.000       | 30.380  | 30.380  |
| IT & QMS & Surveillance                              | 0.000           | 14.515  | 14.515  | 0.000       | 14.515  | 14.515  | 0.000       | 16.715  | 16.715  | 0.000        | 16.715  | 16.715  | 0.000       | 20.120  | 20.120  |
| Furniture and Fixtures                               | 0.000           | 13.504  | 13.504  | 0.000       | 13.504  | 13.504  | 0.000       | 13.504  | 13.504  | 0.000        | 13.504  | 13.504  | 0.000       | 18.788  | 18.788  |
| Interior and Exterior decorations/ Signage           | 0.000           | 4.337   | 4.337   | 0.000       | 4.337   | 4.337   | 0.000       | 5.980   | 5.980   | 0.000        | 5.980   | 5.980   | 0.000       | 5.980   | 5.980   |
| Day Care Center                                      | 0.000           | 1.600   | 1.600   | 0.000       | 1.600   | 1.600   | 0.000       | 1.600   | 1.600   | 0.000        | 1.600   | 1.600   | 0.000       | 1.600   | 1.600   |
| Human resource (HR) plan                             | 0.000           | 17.220  | 17.220  | 0.000       | 17.220  | 17.220  | 0.000       | 42.350  | 42.350  | 0.000        | 42.350  | 42.350  | 0.000       | 59.433  | 59.433  |
| LC Deficit during procurement (currency fluctuation) |                 |         |         |             |         |         |             | 2.172   | 2.172   |              | 2.172   | 2.172   |             | 2.172   | 2.172   |
| Total Revenue component                              | 0.000           | 149.654 | 149.654 | 0.000       | 149.654 | 149.654 | 0.000       | 208.854 | 208.854 | 0.000        | 208.854 | 208.854 | 0.000       | 309.076 | 309.076 |
| Outsourcing component                                |                 |         |         |             |         |         |             |         |         |              |         |         |             |         |         |
| Janitorial Services                                  | 0.000           | 14.802  | 14.802  | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Security and Parking services                        | 0.000           | 7.232   | 7.232   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Laundry Services                                     | 0.000           | 4.200   | 4.200   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Maintenance (Generator)                              | 0.000           | 2.320   | 2.320   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| MEP  | 0.000           | 4.686   | 4.686   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Medical Gases  | 0.000           | 1.304   | 1.304   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Cafeteria  | 0.000           | 6.743   | 6.743   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Horticulture services                                | 0.000           | 4.687   | 4.687   | 0.000       | 0.048   | 0.048   | 0.000       | 0.048   | 0.048   | 0.000        | 0.048   | 0.048   | 0.000       | 0.048   | 0.048   |
| Total outsourcing cost                               | 0.000           | 45.975  | 45.975  | 0.000       | 0.048   | 0.048   | 0.000       | 0.048   | 0.048   | 0.000        | 0.048   | 0.048   | 0.000       | 0.048   | 0.048   |
| Total  | 0.000           | 230.234 | 230.234 | 0.000       | 184.307 | 184.307 | 42.007      | 218.902 | 260.909 | 49.349       | 218.902 | 268.251 | 49.349      | 319.124 | 368.473 |
| Contingency (1%) only on Civil                       | 0.000           | 0.346   | 0.346   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Third Party Monitoring (TPM) (1%)                    | 0.000           | 2.302   | 2.302   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Third Party Validation (TPV) (1%)                    | 0.000           | 2.302   | 2.302   | 0.000       | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   | 0.000        | 0.000   | 0.000   | 0.000       | 0.000   | 0.000   |
| Grand Total  | 0.000           | 235.185 | 235.185 | 0.000       | 184.307 | 184.307 | 42.007      | 218.902 | 260.909 | 49.349       | 218.902 | 268.251 | 49.349      | 319.124 | 368.473 |

## Emergency Equipment

| Sr. No. | Area                             | ITEM DESCRIPTION                                       | Yard Stick | Original          |                   |                       | 1st Revised       |                   |                       | 2nd Revised       |                   |                       | 3rd Revised       |                   |                       |
|---------|----------------------------------|--|------------|-------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------|
|         |                                  |  |            | Required Quantity | Actual Unit Price | Actual Total Cost(Rs) | Required Quantity | Actual Unit Price | Actual Total Cost(Rs) | Required Quantity | Actual Unit Price | Actual Total Cost(Rs) | Required Quantity | Actual Unit Price | Actual Total Cost(Rs) |
|         |                                  |  |            | (T=4+S=0+E=8)     |                   |                       | (T=4+S=0+E=8)     |                   |                       | (T=4+S=0+E=8)     |                   |                       | (T=4+S=0+E=8)     |                   |                       |
| 1       | Reception Area                   | Table  | 0          | 0                 | 99,750            | -                     | 0                 | 99,750            | -                     | 0                 | 99,750            | -                     | 0                 | 99,750            | -                     |
| 2       |                                  | Chairs   | 0          | 0                 | 26,775            | -                     | 0                 | 26,775            | -                     | 0                 | 26,775            | -                     | 0                 | 30,000            | -                     |
| 3       |                                  | Computer Data Entry With Printer                       | 1          | 1                 | 141,750           | 141,750               | 1                 | 141,750           | 141,750               | 1                 | 141,750           | 141,750               | 1                 | 195,000           | 195,000               |
| 4       | 3                                | Table (2.5 X 4)*(N)                                    | 0          | 0                 | 101,850           | -                     | 0                 | 101,850           | -                     | 0                 | 101,850           | -                     | 0                 | 101,850           | -                     |
| 5       | 4                                | Chairs *(N)  | 0          | 0                 | 26,775            | -                     | 0                 | 26,775            | -                     | 0                 | 26,775            | -                     | 0                 | 30,000            | -                     |
| 6       | Triage area                      | B.p apparatus wall type*(N)                            | 3          | 4                 | 15,750            | 63,000                | 4                 | 15,750            | 63,000                | 4                 | 30,000            | 120,000               | 4                 | 30,000            | 120,000               |
| 7       |                                  | Gurney WITH FOOT STEP)*(N)                             | 3          | 4                 | 420,000           | 1,680,000             | 4                 | 420,000           | 1,680,000             | 4                 | 460,000           | 1,840,000             | 4                 | 800,000           | 3,200,000             |
| 8       |                                  | Mercury B.P apparatus*(N)                              | 2          | 3                 | 33,600            | 100,800               | 3                 | 33,600            | 100,800               | 3                 | 36,000            | 108,000               | 3                 | 36,000            | 108,000               |
| 9       |                                  | Laryngoscope paed's & adult each*(N)                   | 2          | 3                 | 10,500            | 31,500                | 3                 | 10,500            | 31,500                | 3                 | 12,000            | 36,000                | 3                 | 20,000            | 60,000                |
| 10      |                                  | Diagnostic set*(N)                                     | 1          | 2                 | 45,150            | 90,300                | 2                 | 45,150            | 90,300                | 2                 | 50,000            | 100,000               | 2                 | 85,000            | 170,000               |
| 11      |                                  | ECG Machine (with trolley) *(N)                        | 1          | 2                 | 169,785           | 339,570               | 2                 | 169,785           | 339,570               | 2                 | 180,000           | 360,000               | 2                 | 300,000           | 600,000               |
| 12      |                                  | Central oxygen with accessories FOR each               | 0          | 0                 | 420,000           | -                     | 0                 | 420,000           | -                     | 0                 | -                 | -                     | 0                 | -                 | -                     |
| 13      |                                  | NEBULIZER HD*(N)                                       | 2          | 3                 | 125,265           | 375,795               | 3                 | 125,265           | 375,795               | 3                 | 215,000           | 645,000               | 3                 | 300,000           | 900,000               |
| 14      |                                  | SUCKER MACHINE*(N)                                     | 1          | 2                 | 259,350           | 518,700               | 2                 | 259,350           | 518,700               | 2                 | 275,000           | 550,000               | 2                 | 300,000           | 600,000               |
| 15      |                                  | Resuscitation Trolley (fully equipped) y*(N)           | 1          | 2                 | 244,733           | 489,466               | 2                 | 244,733           | 489,466               | 2                 | 400,000           | 800,000               | 2                 | 600,000           | 1,200,000             |
| 16      |                                  | INSTRUMENT CABINET*N                                   | 1          | 2                 | 69,300            | 138,600               | 2                 | 69,300            | 138,600               | 2                 | 69,300            | 138,600               | 2                 | 69,300            | 138,600               |
| 17      |                                  | MEDICINE TROLLY*N                                      | 1          | 2                 | 60,900            | 121,800               | 2                 | 60,900            | 121,800               | 2                 | 60,900            | 121,800               | 2                 | 60,900            | 121,800               |
| 18      | Minor O.T                        | O.T table WITH foot step                               | 2          | 2                 | 1,417,500         | 2,835,000             | 2                 | 1,417,500         | 2,835,000             | 2                 | 2,000,000         | 4,000,000             | 2                 | 2,500,000         | 5,000,000             |
| 19      |                                  | Anesthesia Machine                                     | 1          | 1                 | 2,509,554         | 2,509,554             | 1                 | 2,509,554         | 2,509,554             | 1                 | 3,000,000         | 3,000,000             | 1                 | 7,000,000         | 7,000,000             |
| 20      |                                  | Sucker machine   | 2          | 2                 | 259,350           | 518,700               | 2                 | 259,350           | 518,700               | 2                 | 275,000           | 550,000               | 2                 | 300,000           | 600,000               |
| 21      |                                  | Portable O.T Lights                                    | 1          | 1                 | 304,220           | 304,220               | 1                 | 304,220           | 304,220               | 1                 | 500,000           | 500,000               | 1                 | 900,000           | 900,000               |
| 22      |                                  | Ceiling o.t light                                      | 1          | 1                 | 414,750           | 414,750               | 1                 | 414,750           | 414,750               | 1                 | 800,000           | 800,000               | 1                 | 950,000           | 950,000               |
| 23      |                                  | Hot air oven   | 1          | 1                 | 110,000           | 110,000               | 1                 | 110,000           | 110,000               | 1                 | 385,000           | 385,000               | 1                 | 450,000           | 450,000               |
| 24      |                                  | Autoclave  | 1          | 1                 | 441,000           | 441,000               | 1                 | 441,000           | 441,000               | 1                 | 550,000           | 550,000               | 1                 | 850,000           | 850,000               |
| 25      |                                  | Instrument trolley*N                                   | 1          | 1                 | 54,000            | 54,000                | 1                 | 54,000            | 54,000                | 1                 | 54,000            | 54,000                | 1                 | 55,000            | 55,000                |
| 26      |                                  | Defibrillator*N  | 1          | 1                 | 310,000           | 310,000               | 1                 | 310,000           | 310,000               | 1                 | 650,000           | 650,000               | 1                 | 800,000           | 800,000               |
| 27      |                                  | Instrument cabinet                                     | 1          | 1                 | 69,300            | 69,300                | 1                 | 69,300            | 69,300                | 1                 | 69,300            | 69,300                | 1                 | 69,300            | 69,300                |
| 28      | Constant / specialized care room | GURNEYS*N  | 0          | 0                 | 420,000           | -                     | 0                 | 420,000           | -                     | 0                 | 460,000           | -                     | 0                 | 850,000           | -                     |
| 29      |                                  | Sucker machine *(N)                                    | 0          | 0                 | 259,350           | -                     | 0                 | 259,350           | -                     | 0                 | 275,000           | -                     | 0                 | 300,000           | -                     |
| 30      |                                  | Nebulizer HD*(N)                                       | 0          | 0                 | 125,265           | -                     | 0                 | 125,265           | -                     | 0                 | 215,000           | -                     | 0                 | 300,000           | -                     |
| 31      |                                  | Center Oxygen supply*N                                 | 0          | 0                 | 420,000           | -                     | 0                 | 420,000           | -                     | 0                 | -                 | -                     | 0                 | -                 | -                     |
| 32      |                                  | Resuscitation Trolley (fully equipped) y*(N)           | 0          | 0                 | 237,618           | -                     | 0                 | 237,618           | -                     | 0                 | 400,000           | -                     | 0                 | 600,000           | -                     |
| 33      |                                  | Defibrillator*N  | 0          | 0                 | 302,605           | -                     | 0                 | 302,605           | -                     | 0                 | 650,000           | -                     | 0                 | 800,000           | -                     |
| 34      |                                  | Pulse- oximeter*(N)                                    | 0          | 0                 | 104,000           | -                     | 0                 | 104,000           | -                     | 0                 | 160,000           | -                     | 0                 | 225,000           | -                     |
| 35      |                                  | Bedside-monitor*(N)                                    | 0          | 0                 | 301,665           | -                     | 0                 | 301,665           | -                     | 0                 | 550,000           | -                     | 0                 | 1,200,000         | -                     |
| 36      |                                  | ECG MACHINE)*(N)                                       | 0          | 0                 | 169,785           | -                     | 0                 | 169,785           | -                     | 0                 | 169,785           | -                     | 0                 | 300,000           | -                     |
| 37      |                                  | BP APPARATUS*N   | 0          | 0                 | 15,750            | -                     | 0                 | 15,750            | -                     | 0                 | 16,000            | -                     | 0                 | 16,000            | -                     |
| 38      |                                  | FOOT STEP)*(N)   | 0          | 0                 | 3,150             | -                     | 0                 | 3,150             | -                     | 0                 | 4,000             | -                     | 0                 | 5,500             | -                     |
| 39      |                                  | ATTANDANT BENCH)*(N)                                   | 0          | 0                 | 5,250             | -                     | 0                 | 5,250             | -                     | 0                 | 8,000             | -                     | 0                 | 10,000            | -                     |
| 40      | 7                                | (MOTRIZED BEDS) with accessories (with foot steps)*(N) | 7          | 8                 | 210,000           | 1,680,000             | 8                 | 210,000           | 1,680,000             | 8                 | 400,000           | 3,200,000             | 8                 | 600,000           | 4,800,000             |
| 41      | 8                                | ECG machine(with trolley) *(N)                         | 1          | 2                 | 169,785           | 339,570               | 2                 | 169,785           | 339,570               | 2                 | 169,785           | 339,570               | 2                 | 300,000           | 600,000               |
| 42      | Emergency ward                   | Pulse- oximeter *(N)                                   | 6          | 7                 | 104,000           | 728,000               | 7                 | 104,000           | 728,000               | 7                 | 160,000           | 1,120,000             | 7                 | 225,000           | 1,575,000             |
| 43      |                                  | Bedside-monitor*(N)                                    | 3          | 4                 | 301,665           | 1,206,660             | 4                 | 301,665           | 1,206,660             | 4                 | 550,000           | 2,200,000             | 4                 | 1,200,000         | 4,800,000             |
| 44      |                                  | B.P apparatus wall type *(N)                           | 6          | 7                 | 26,250            | 183,750               | 7                 | 26,250            | 183,750               | 7                 | 30,000            | 210,000               | 7                 | 30,000            | 210,000               |
| 45      |                                  | Nebulizer HD *(N)                                      | 2          | 3                 | 125,265           | 375,795               | 3                 | 125,265           | 375,795               | 3                 | 215,000           | 645,000               | 3                 | 300,000           | 900,000               |



## Emergency Equipment

|     |             |   |      | Original          |             |                   | 1st Revised       |             |                   | 2nd Revised       |             |                   | 3rd Revised       |             |                   |
|-----|-------------|---|------|-------------------|-------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------|-------------------|
| Sr. | Area        | ITEM DESCRIPTION                            | Yard | Required Quantity | Actual Unit | Actual Total      | Required Quantity | Actual Unit | Actual Total      | Required Quantity | Actual Unit | Actual Total      | Required Quantity | Actual Unit | Actual Total      |
| 46  | waru        | Resuscitation Trolley (fully equipped) *(N) | 1    | 2                 | 237,618     | 475,236           | 2                 | 237,618     | 475,236           | 2                 | 400,000     | 800,000           | 2                 | 600,000     | 1,200,000         |
| 47  |             | Defibrillator*N                             | 1    | 2                 | 299,153     | 598,307           | 2                 | 299,153     | 598,307           | 2                 | 650,000     | 1,300,000         | 2                 | 800,000     | 1,600,000         |
| 48  |             | Sucker machine *(N)                         | 2    | 3                 | 259,350     | 778,050           | 3                 | 259,350     | 778,050           | 3                 | 275,000     | 825,000           | 3                 | 300,000     | 900,000           |
| 49  | Generalized | Wheal chairs *(N)                           | 0    | 0                 | 31,500      | -                 | 0                 | 31,500      | -                 | 0                 | 35,000      | -                 | 0                 | 35,000      | -                 |
| 50  |             | Stretcher *(N)                              | 0    | 0                 | 69,300      | -                 | 0                 | 69,300      | -                 | 0                 | 69,300      | -                 | 0                 | 69,300      | -                 |
| 51  |             | ambo bag paedrs with Mask*N                 | 5    | 5                 | 15,750      | 78,750            | 5                 | 15,750      | 78,750            | 5                 | 19,000      | 95,000            | 5                 | 19,000      | 95,000            |
| 52  |             | ambo bag adult with Mask* N                 | 5    | 5                 | 15,750      | 78,750            | 5                 | 15,750      | 78,750            | 5                 | 19,000      | 95,000            | 5                 | 19,500      | 97,500            |
| 53  |             | patient stool * N                           | 2    | 2                 | 4,085       | 8,169             | 2                 | 4,085       | 8,169             | 2                 | 4,500       | 9,000             | 2                 | 5,000       | 10,000            |
| 54  |             | Portable x-rays (300 M.A)                   | 1    | 1                 | 3,450,350   | 3,450,350         | 1                 | 3,450,350   | 3,450,350         | 1                 | 4,300,000   | 4,300,000         | 1                 | 9,800,000   | 9,800,000         |
| 55  |             | Portable ultra-sound                        | 1    | 1                 | 1,403,325   | 1,403,325         | 1                 | 1,403,325   | 1,403,325         | 1                 | 1,500,000   | 1,500,000         | 1                 | 2,400,000   | 2,400,000         |
|     |             | <b>Total</b>                                |      |                   |             | <b>23,042,517</b> |                   |             | <b>23,042,517</b> |                   |             | <b>32,158,020</b> |                   |             | <b>53,075,200</b> |
|     |             |   |      |                   |             | 23.043            |                   |             | 23.043            |                   |             | 32.158            |                   |             | 53.075            |

## 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                |

## Medical Equipment

| 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          | 3                  | 0                 | 449,295       | -          | 3                  | 0                 | 449,295       | -          | 3                  | 0                 | 550,000       | -          | 3                  | 0                 | 550,000       | -          |
| 2                 |            | Hematology Analyzer                   | 1          | 0                  | 1                 | 427,350       | 427,350    | 0                  | 1                 | 427,350       | 427,350    | 0                  | 1                 | 550,000       | 550,000    | 0                  | 1                 | 750,000       | 750,000    |
| 3                 |            | Electrolyte Analyzer                  | 1          | 0                  | 1                 | 427,350       | 427,350    | 0                  | 1                 | 427,350       | 427,350    | 0                  | 1                 | 550,000       | 550,000    | 0                  | 1                 | 550,000       | 550,000    |
| 4                 |            | Blood Gas Analyzer                    | 0          | 0                  | 0                 | 2,744,858     | -          | 0                  | 0                 | 2,744,858     | -          | 0                  | 0                 | 3,200,000     | -          | 0                  | 0                 | 1,400,000     | -          |
| 5                 |            | Clinical Microscope                   | 1          | 4                  | 0                 | 132,825       | -          | 4                  | 0                 | 132,825       | -          | 4                  | 0                 | 180,000       | -          | 4                  | 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          | 0                  | 1                 | 210,000       | 210,000    | 0                  | 1                 | 210,000       | 210,000    | 0                  | 1                 | 385,000       | 385,000    | 0                  | 1                 | 450,000       | 450,000    |
| 8                 |            | Distilled water plant                 | 1          | 0                  | 1                 | 52,500        | 52,500     | 0                  | 1                 | 52,500        | 52,500     | 0                  | 1                 | 75,000        | 75,000     | 0                  | 1                 | 125,000       | 125,000    |
| 9                 |            | Auto pipettes                         | 10         | 4                  | 6                 | 31,500        | 189,000    | 4                  | 6                 | 31,500        | 189,000    | 4                  | 6                 | 40,500        | 243,000    | 4                  | 6                 | 45,000        | 270,000    |
| 10                |            | glass wares                           | 0          | 0                  | 0                 | 105,000       | -          | 0                  | 0                 | 105,000       | -          | 0                  | 0                 | 105,000       | -          | 0                  | 0                 | 105,000       | -          |
| 11                | X-Rays     | Centrifuge Machine                    | 2          | 2                  | 0                 | 149,336       | -          | 2                  | 0                 | 149,336       | -          | 2                  | 0                 | 250,000       | -          | 2                  | 0                 | 400,000       | -          |
| 12                |            | Static X-ray Machine                  | 1          | 1                  | 0                 | 4,200,000     | -          | 1                  | 0                 | 4,200,000     | -          | 1                  | 0                 | 6,000,000     | -          | 1                  | 0                 | 12,000,000    | -          |
| 13                |            | Mobile X-Ray Machine                  | 0          | 1                  | 0                 | 3,850,524     | -          | 1                  | 0                 | 3,850,524     | -          | 1                  | 0                 | 4,300,000     | -          | 1                  | 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          | 0                  | 0                 | 282,975       | -          | 0                  | 0                 | 282,975       | -          | 0                  | 0                 | 350,000       | -          | 0                  | 0                 | 525,000       | -          |
| 16                |            | Lead apron and PPE                    | 2          | 3                  | 0                 | 52,500        | -          | 3                  | 0                 | 52,500        | -          | 3                  | 0                 | 60,000        | -          | 3                  | 0                 | 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          | 1                  | 0                 | 105,000       | -          | 1                  | 0                 | 105,000       | -          | 1                  | 0                 | 105,000       | -          | 1                  | 0                 | 150,000       | -          |
| 19                |            | Lead Walls                            | 0          | 0                  | 0                 | 525,000       | -          | 0                  | 0                 | 525,000       | -          | 0                  | 0                 | 525,000       | -          | 0                  | 0                 | 525,000       | -          |
| 20                |            | 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                | Ultrasound | Color Doppler RADIOLOGY               | 1          | 0                  | 1                 | 3,698,310     | 3,698,310  | 0                  | 1                 | 3,698,310     | 3,698,310  | 0                  | 1                 | 4,500,000     | 4,500,000  | 0                  | 1                 | 5,500,000     | 5,500,000  |
| 22                | CCU        | ICU MONITOR                           | 2          | 0                  | 2                 | 301,665       | 603,330    | 0                  | 2                 | 301,665       | 603,330    | 0                  | 2                 | 900,000       | 1,800,000  | 0                  | 2                 | 1,250,000     | 2,500,000  |
| 23                |            | Temporary pace maker                  | 0          | 0                  | 0                 | 315,000       | -          | 0                  | 0                 | 315,000       | -          | 0                  | 0                 | 315,000       | -          | 0                  | 0                 | 550,000       | -          |
| 24                |            | Defibrillator                         | 1          | 0                  | 1                 | 299,153       | 299,153    | 0                  | 1                 | 299,153       | 299,153    | 0                  | 1                 | 650,000       | 650,000    | 0                  | 1                 | 800,000       | 800,000    |
| 25                |            | ECG Machine Three Channel             | 2          | 0                  | 2                 | 169,785       | 339,570    | 0                  | 2                 | 169,785       | 339,570    | 0                  | 2                 | 169,785       | 339,570    | 0                  | 2                 | 300,000       | 600,000    |
| 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          | 0                  | 2                 | 259,350       | 518,700    | 0                  | 2                 | 259,350       | 518,700    | 0                  | 2                 | 275,000       | 550,000    | 0                  | 2                 | 300,000       | 600,000    |
| 29                |            | Blood Cabinet                         | 1          | 1                  | 0                 | 690,539       | -          | 1                  | 0                 | 690,539       | -          | 1                  | 0                 | 700,000       | -          | 1                  | 0                 | 1,500,000     | -          |
| 30                | Blood Bank | Centrifuge Machine                    | 2          | 1                  | 1                 | 149,336       | 149,336    | 1                  | 1                 | 149,336       | 149,336    | 1                  | 1                 | 250,000       | 250,000    | 1                  | 1                 | 400,000       | 400,000    |
| 31                |            | Slide viewer                          | 1          | 1                  | 0                 | 42,000        | -          | 1                  | 0                 | 42,000        | -          | 1                  | 0                 | 55,000        | -          | 1                  | 0                 | 55,000        | -          |
| 32                |            | Clinical Microscope                   | 1          | 1                  | 0                 | 132,825       | -          | 1                  | 0                 | 132,825       | -          | 1                  | 0                 | 180,000       | -          | 1                  | 0                 | 250,000       | -          |
| 33                |            | Computerized Hemo Dialysis Machine    | 5          | 0                  | 5                 | 1,050,000     | 5,250,000  | 0                  | 5                 | 1,050,000     | 5,250,000  | 0                  | 5                 | 1,600,000     | 8,000,000  | 0                  | 5                 | 3,200,000     | 16,000,000 |
| 34                | Nursery    | Baby Cot                              | 10         | 6                  | 4                 | 14,669        | 58,674     | 6                  | 4                 | 14,669        | 58,674     | 6                  | 4                 | 16,000        | 64,000     | 6                  | 4                 | 16,000        | 64,000     |
| 35                |            | Phototherapy Unit                     | 2          | 3                  | 0                 | 130,200       | -          | 3                  | 0                 | 130,200       | -          | 3                  | 0                 | 655,000       | -          | 3                  | 0                 | 850,000       | -          |
| 36                |            | Infant Warmer                         | 2          | 2                  | 0                 | 335,638       | -          | 2                  | 0                 | 335,638       | -          | 2                  | 0                 | 985,000       | -          | 2                  | 0                 | 1,050,000     | -          |
| 37                |            | Pulse Oximeter                        | 6          | 1                  | 5                 | 104,500       | 522,500    | 1                  | 5                 | 104,500       | 522,500    | 1                  | 5                 | 160,000       | 800,000    | 1                  | 5                 | 225,000       | 1,125,000  |
| 38                |            | Infant Incubator                      | 2          | 3                  | 0                 | 858,932       | -          | 3                  | 0                 | 858,932       | -          | 3                  | 0                 | 900,000       | -          | 3                  | 0                 | 1,750,000     | -          |
| 39                |            | Suction Pump                          | 1          | 0                  | 1                 | 259,350       | 259,350    | 0                  | 1                 | 259,350       | 259,350    | 0                  | 1                 | 275,000       | 275,000    | 0                  | 1                 | 300,000       | 300,000    |
| 40                |            | Hospital Grade Nebulizer Heavy Duty   | 2          | 5                  | 0                 | 125,265       | -          | 5                  | 0                 | 125,265       | -          | 5                  | 0                 | 215,000       | -          | 5                  | 0                 | 300,000       | -          |
| 41                |            | Anesthesia Machine with Ventilator    | 1          | 2                  | 0                 | 2,509,554     | -          | 2                  | 0                 | 2,509,554     | -          | 2                  | 0                 | 3,000,000     | -          | 2                  | 0                 | 7,000,000     | -          |
| 42                | O.T (04)   | BED SIDE PATIENT MONITOR              | 2          | 2                  | 0                 | 441,000       | -          | 2                  | 0                 | 441,000       | -          | 2                  | 0                 | 550,000       | -          | 2                  | 0                 | 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          | 2                  | 0                 | 507,530       | -          | 2                  | 0                 | 507,530       | -          | 2                  | 0                 | 700,000       | -          | 2                  | 0                 | 900,000       | -          |
| 45                |            | Operation Table                       | 1          | 5                  | 0                 | 1,426,215     | -          | 5                  | 0                 | 1,426,215     | -          | 5                  | 0                 | 2,000,000     | -          | 5                  | 0                 | 2,500,000     | -          |
| 46                |            | Ceiling Operating Light               | 1          | 4                  | 0                 | 413,013       | -          | 4                  | 0                 | 413,013       | -          | 4                  | 0                 | 800,000       | -          | 4                  | 0                 | 950,000       | -          |
| 47                |            | STEAM STERILIZER                      | 1          | 5                  | 0                 | 3,465,000     | -          | 5                  | 0                 | 3,465,000     | -          | 5                  | 0                 | 4,000,000     | -          | 5                  | 0                 | 7,800,000     | -          |
| 48                |            | Suction Pump                          | 2          | 0                  | 2                 | 259,350       | 518,700    | 0                  | 2                 | 259,350       | 518,700    | 0                  | 2                 | 275,000       | 550,000    | 0                  | 2                 | 300,000       | 600,000    |
| 49                |            | Resuscitation trolley With Crash Cart | 2          | 2                  | 0                 | 244,733       | -          | 2                  | 0                 | 244,733       | -          | 2                  | 0                 | 400,000       | -          | 2                  | 0                 | 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       | -          |
| 56                |            | Orthopedic Instruments                | 0          | 0                  | 0                 | 432,623       | -          | 0                  | 0                 | 432,623       | -          | 0                  | 0                 | 550,000       | -          | 0                  | 0                 | 550,000       | -          |

## Medical Equipment

|         |                              |   |            | Original           |                   |               |            | 1st Revised        |                   |               |            | 2nd Revised        |                   |               |            | 3rd Revised        |                   |               |            |
|---------|------------------------------|---|------------|--------------------|-------------------|---------------|------------|--------------------|-------------------|---------------|------------|--------------------|-------------------|---------------|------------|--------------------|-------------------|---------------|------------|
| Sr. No. | Area                         | Name of Equipment   | Yard Stick | Available Quantity | Required Quantity | Cost per Unit | Total Cost | Available Quantity | Required Quantity | Cost per Unit | Total Cost | Available Quantity | Required Quantity | Cost per Unit | Total Cost | Available Quantity | Required Quantity | Cost per Unit | Total Cost |
| 57      | Gynea (20 beds)              | Portable/Mobile Ultrasound  | 1          | 2                  | 0                 | 1,418,958     | -          | 2                  | 0                 | 1,418,958     | -          | 2                  | 0                 | 1,500,000     | -          | 2                  | 0                 | 2,400,000     | -          |
| 58      |                              | 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    |
| 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          | 4                  | 0                 | 47,250        | -          | 4                  | 0                 | 47,250        | -          | 4                  | 0                 | 47,250        | -          | 4                  | 0                 | 55,000        | -          |
| 61      |                              | BED SIDE PATIENT MONITOR  | 2          | 0                  | 2                 | 294,000       | 588,000    | 0                  | 2                 | 294,000       | 588,000    | 0                  | 2                 | 550,000       | 1,100,000  | 0                  | 2                 | 1,200,000     | 2,400,000  |
| 62      |                              | D & C Set   | 2          | 1                  | 1                 | 34,650        | 34,650     | 1                  | 1                 | 34,650        | 34,650     | 1                  | 1                 | 40,000        | 40,000     | 1                  | 1                 | 60,000        | 60,000     |
| 63      |                              | Vacume Extractor  | 1          | 1                  | 0                 | 259,350       | -          | 1                  | 0                 | 259,350       | -          | 1                  | 0                 | 300,000       | -          | 1                  | 0                 | 350,000       | -          |
| 64      |                              | CTG Machine   | 1          | 1                  | 0                 | 628,049       | -          | 1                  | 0                 | 628,049       | -          | 1                  | 0                 | 725,000       | -          | 1                  | 0                 | 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      | Surgical Emergency (10 beds) | Baby Cot  | 2          | 0                  | 2                 | 14,669        | 29,337     | 0                  | 2                 | 14,669        | 29,337     | 0                  | 2                 | 16,000        | 32,000     | 0                  | 2                 | 16,000        | 32,000     |
| 68      |                              | Delivery trolley  | 2          | 2                  | 0                 | 47,250        | -          | 2                  | 0                 | 47,250        | -          | 2                  | 0                 | 47,250        | -          | 2                  | 0                 | 47,250        | -          |
| 69      |                              | Desktop Fetal Heart Rate Detector   | 1          | 1                  | 0                 | 144,375       | -          | 1                  | 0                 | 144,375       | -          | 1                  | 0                 | 175,000       | -          | 1                  | 0                 | 200,000       | -          |
| 70      |                              | Steam Sterilizer  | 0          | 0                  | 0                 | 3,355,849     | -          | 0                  | 0                 | 3,355,849     | -          | 0                  | 0                 | 4,000,000     | -          | 0                  | 0                 | 7,800,000     | -          |
| 71      |                              | Operation Table   | 0          | 0                  | 0                 | 1,426,215     | -          | 0                  | 0                 | 1,426,215     | -          | 0                  | 0                 | 2,000,000     | -          | 0                  | 0                 | 2,500,000     | -          |
| 72      |                              | MOBILE OPERATING LIGHT  | 0          | 0                  | 0                 | 285,466       | -          | 0                  | 0                 | 285,466       | -          | 0                  | 0                 | 400,000       | -          | 0                  | 0                 | 900,000       | -          |
| 73      |                              | Suction Pump  | 0          | 0                  | 0                 | 259,350       | -          | 0                  | 0                 | 259,350       | -          | 0                  | 0                 | 275,000       | -          | 0                  | 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          | 4                  | 0                 | 141,750       | -          | 4                  | 0                 | 141,750       | -          | 4                  | 0                 | 160,000       | -          | 4                  | 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      | Others                       | 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      |                              | 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          | 0                  | 5                 | 237,618       | 1,188,091  | 0                  | 5                 | 237,618       | 1,188,091  | 0                  | 5                 | 400,000       | 2,000,000  | 0                  | 5                 | 600,000       | 3,000,000  |
| 80      |                              | BP Apparatus  | 15         | 12                 | 3                 | 15,750        | 47,250     | 12                 | 3                 | 15,750        | 47,250     | 12                 | 3                 | 16,000        | 48,000     | 12                 | 3                 | 16,000        | 48,000     |
| 81      |                              | Ventilator  | 0          | 0                  | 0                 | 2,195,080     | -          | 0                  | 0                 | 2,195,080     | -          | 0                  | 0                 | 3,500,000     | -          | 0                  | 0                 | 5,500,000     | -          |
| 82      |                              | CPAP  | 1          | 0                  | 1                 | 1,098,510     | 1,098,510  | 0                  | 1                 | 1,098,510     | 1,098,510  | 0                  | 1                 | 2,100,000     | 2,100,000  | 0                  | 1                 | 2,800,000     | 2,800,000  |
| 83      |                              | X-RAY PROCESSOR   | 1          | 0                  | 1                 | 858,440       | 858,440    | 0                  | 1                 | 858,440       | 858,440    | 0                  | 1                 | 925,000       | 925,000    | 0                  | 1                 | 1,200,000     | 1,200,000  |
| 84      |                              | Hand wash Scrub Double Bay  | 2          | 0                  | 2                 | 94,500        | 189,000    | 0                  | 2                 | 94,500        | 189,000    | 0                  | 2                 | 100,000       | 200,000    | 0                  | 2                 | 140,000       | 280,000    |
| 85      |                              | Image Intensifier   | 0          | 0                  | 0                 | 4,667,460     | -          | 0                  | 0                 | 4,667,460     | -          | 0                  | 0                 | 4,667,460     | -          | 0                  | 0                 | 12,000,000    | -          |
| 86      |                              | Central Medical Gass Pipe Line System   | 7          | 0                  | 7                 | 850,000       | 5,950,000  | 0                  | 7                 | 850,000       | 5,950,000  | 0                  | 7                 | -             | -          | 0                  | 7                 | -             | -          |
| 87      | 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      | MORTUERY                     | 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, paedrs  | 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     |                              | 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                  | Dental Unit   | 2          | 0                  | 2                 | 2,190,000     | 4,380,000  | 0                  | 2                 | 2,190,000     | 4,380,000  | 0                  | 2                 | 2,820,000     | 5,640,000  | 0                  | 2                 | 2,820,000     | 5,640,000  |
| 105     |                              | Autoclave   | 1          | 0                  | 1                 | 441,000       | 441,000    | 0                  | 1                 | 441,000       | 441,000    | 0                  | 1                 | 550,000       | 550,000    | 0                  | 1                 | 850,000       | 850,000    |
| 106     |                              | Dental X-RAY Machine  | 1          | 0                  | 1                 | 282,975       | 282,975    | 0                  | 1                 | 282,975       | 282,975    | 0                  | 1                 | 350,000       | 350,000    | 0                  | 1                 | 525,000       | 525,000    |
| 107     |                              | Digital Intra Oral Camera   | 0          | 0                  | 0                 | 94,500        | -          | 0                  | 0                 | 94,500        | -          | 0                  | 0                 | 150,000       | -          | 0                  | 0                 | 600,000       | -          |
| 108     |                              | DENTAL CAUTERY  | 0          | 0                  | 0                 | 84,000        | -          | 0                  | 0                 | 84,000        | -          | 0                  | 0                 | 160,000       | -          | 0                  | 0                 | 900,000       | -          |
| 109     |                              | Ultrasonic scaling  | 1          | 0                  | 1                 | 120,750       | 120,750    | 0                  | 1                 | 120,750       | 120,750    | 0                  | 1                 | 175,000       | 175,000    | 0                  | 1                 | 300,000       | 300,000    |
| 110     |                              | Curing lights   | 1          | 0                  | 1                 | 52,500        | 52,500     | 0                  | 1                 | 52,500        | 52,500     | 0                  | 1                 | 95,000        | 95,000     | 0                  | 1                 | 150,000       | 150,000    |
| 111     |                              | Endo motor system   | 1          | 0                  | 1                 | 199,601       | 199,601    | 0                  | 1                 | 199,601       | 199,601    | 0                  | 1                 | 265,000       | 265,000    | 0                  | 1                 | 500,000       | 500,000    |

## Medical Equipment

| 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     | Physiotherapy unit | Shortwave diathermy                               | 1          | 0                  | 1                 | 844,562       | 844,562    | 0                  | 1                 | 844,562       | 844,562    | 0                  | 1                 | 1,500,000     | 1,500,000  | 0                  | 1                 | 2,750,000     | 2,750,000   |
| 115     |                    | Infrared Radiation                                | 1          | 0                  | 1                 | 142,916       | 142,916    | 0                  | 1                 | 142,916       | 142,916    | 0                  | 1                 | 315,222       | 315,222    | 0                  | 1                 | 526,500       | 526,500     |
| 116     |                    | TENS(Transcutaneous Electrical Nerve Stimulation) | 1          | 0                  | 1                 | 132,577       | 132,577    | 0                  | 1                 | 132,577       | 132,577    | 0                  | 1                 | 275,000       | 275,000    | 0                  | 1                 | 585,000       | 585,000     |
| 117     |                    | Treatment couch                                   | 4          | 0                  | 4                 | 10,080        | 40,320     | 0                  | 4                 | 10,080        | 40,320     | 0                  | 4                 | 75,000        | 300,000    | 0                  | 4                 | 760,500       | 3,042,000   |
| 118     |                    | A. Electrical Heating Pads                        | 3          | 0                  | 3                 | 6,300         | 18,900     | 0                  | 3                 | 6,300         | 18,900     | 0                  | 3                 | 20,000        | 60,000     | 0                  | 3                 | 117,000       | 351,000     |
| 119     |                    | B. Hot pack unite                                 | 1          | 0                  | 1                 | 131,782       | 131,782    | 0                  | 1                 | 131,782       | 131,782    | 0                  | 1                 | 253,485       | 253,485    | 0                  | 1                 | 1,053,000     | 1,053,000   |
| 120     |                    | C. Paraffin bath                                  | 1          | 0                  | 1                 | 154,082       | 154,082    | 0                  | 1                 | 154,082       | 154,082    | 0                  | 1                 | 308,071       | 308,071    | 0                  | 1                 | 819,000       | 819,000     |
| 121     |                    | Therapeutic ULTRASOUND unit                       | 1          | 0                  | 1                 | 141,748       | 141,748    | 0                  | 1                 | 141,748       | 141,748    | 0                  | 1                 | 275,000       | 275,000    | 0                  | 1                 | 819,000       | 819,000     |
| 122     |                    | Treadmill   | 1          | 0                  | 1                 | 335,111       | 335,111    | 0                  | 1                 | 335,111       | 335,111    | 0                  | 1                 | 950,000       | 950,000    | 0                  | 1                 | 1,404,000     | 1,404,000   |
| 123     |                    | Mats  | 1          | 0                  | 1                 | 75,817        | 75,817     | 0                  | 1                 | 75,817        | 75,817     | 0                  | 1                 | 150,000       | 150,000    | 0                  | 1                 | 292,500       | 292,500     |
| 124     |                    | Quadriceps Bench                                  | 1          | 0                  | 1                 | 189,164       | 189,164    | 0                  | 1                 | 189,164       | 189,164    | 0                  | 1                 | 425,000       | 425,000    | 0                  | 1                 | 750,000       | 750,000     |
| 125     |                    | Ergometer Cycling                                 | 1          | 0                  | 1                 | 66,087        | 66,087     | 0                  | 1                 | 66,087        | 66,087     | 0                  | 1                 | 175,000       | 175,000    | 0                  | 1                 | 409,500       | 409,500     |
| 126     |                    | Mirror  | 1          | 0                  | 1                 | 24,640        | 24,640     | 0                  | 1                 | 24,640        | 24,640     | 0                  | 1                 | 45,000        | 45,000     | 0                  | 1                 | 400,000       | 400,000     |
| 127     |                    | Floor Mounted Parallel Bars                       | 1          | 0                  | 1                 | 87,821        | 87,821     | 0                  | 1                 | 87,821        | 87,821     | 0                  | 1                 | 150,000       | 150,000    | 0                  | 1                 | 590,000       | 590,000     |
| 128     |                    | Pully System                                      | 1          | 0                  | 1                 | 41,826        | 41,826     | 0                  | 1                 | 41,826        | 41,826     | 0                  | 1                 | 128,594       | 128,594    | 0                  | 1                 | 409,500       | 409,500     |
| 129     |                    | Trolleys  | 4          | 0                  | 4                 | 2,520         | 10,080     | 0                  | 4                 | 2,520         | 10,080     | 0                  | 4                 | 35,000        | 140,000    | 0                  | 4                 | 50,000        | 200,000     |
| 130     |                    | Stool(Steel)                                      | 4          | 0                  | 4                 | 2,520         | 10,080     | 0                  | 4                 | 2,520         | 10,080     | 0                  | 4                 | 7,000         | 28,000     | 0                  | 4                 | 10,000        | 40,000      |
| 131     | Beds               | Fowler beds with Mattress                         | 100        | 0                  | 100               | 70,000        | 7,000,000  | 0                  | 100               | 70,000        | 7,000,000  | 0                  | 100               | 110,000       | 11,000,000 | 0                  | 100               | 150,000       | 15,000,000  |
|         |                    | Total   |            |                    |                   |               | 49,608,488 |                    |                   |               | 49,608,488 |                    |                   |               | 67,541,191 |                    |                   |               | 104,090,138 |
|         |                    |   |            |                    |                   |               | 49.608     |                    |                   |               | 49.608     |                    |                   |               | 67.541     |                    |                   |               | 104.090     |

### Electricity

| Sr. No. | Item Name                                     | Original |               |                   | 1st Revised |               |                   | 2nd Revised |               |                   | 3rd Revised |               |                   |
|---------|---|----------|---------------|-------------------|-------------|---------------|-------------------|-------------|---------------|-------------------|-------------|---------------|-------------------|
|         |   | Quantity | Per Unit Cost | Total Cost        | Quantity    | Per Unit Cost | Total Cost        | Quantity    | Per Unit Cost | Total Cost        | Quantity    | Per Unit Cost | Total Cost        |
| 1       | Transformers (200 KVA)                        | 1        | 600,000       | 600,000           | 1           | 600,000       | 600,000           | 1           | 600,000       | 600,000           | 3           | 1,600,000     | 4,800,000         |
| 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)                           | 1        | 4,000,000     | 4,000,000         | 1           | 4,000,000     | 4,000,000         | 1           | 4,000,000     | 4,000,000         | 2           | 6,500,000     | 13,000,000        |
| 4       | Generator (100 KVA)                           | 0        | 2,300,000     | -                 | 0           | 2,300,000     | -                 | 0           | 2,300,000     | -                 | 0           | 2,300,000     | -                 |
| 5       | 2 Ton air conditioners (split)                | 55       | 55,500        | 3,052,500         | 55          | 55,500        | 3,052,500         | 55          | 55,500        | 3,052,500         | 55          | 55,500        | 3,052,500         |
| 6       | 2 Ton air conditioners (Cabinet)              | 33       | 78,000        | 2,574,000         | 33          | 78,000        | 2,574,000         | 33          | 78,000        | 2,574,000         | 33          | 78,000        | 2,574,000         |
| 7       | 4 Ton air conditioners (Cabinet)              | 8        | 120,000       | 960,000           | 8           | 120,000       | 960,000           | 8           | 120,000       | 960,000           | 8           | 120,000       | 960,000           |
| 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>17,180,220</b> |             |               | <b>17,180,220</b> |             |               | <b>17,180,220</b> |             |               | <b>30,380,220</b> |
|         |   |          |               | <b>17.180</b>     |             |               | <b>17.180</b>     |             |               | <b>17.180</b>     |             |               | <b>30.380</b>     |

### IT & QMS & Surveillance

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

| Sr No | Type | Kinds of Sign Boards   | Original |         |                  | 1st Revised |         |                  | 2nd Revised |         |                  | 3rd Revised |         |                  |
|-------|------|--|----------|---------|------------------|-------------|---------|------------------|-------------|---------|------------------|-------------|---------|------------------|
|       |      |  | Quantity | Rates   | Cost             | Quantity    | Rates   | Cost             | Quantity    | Rates   | Cost             | Quantity    | Rates   | Cost             |
|       |      | <b>External Sign Boards</b>                                    |          |         |                  |             |         |                  |             |         |                  |             |         |                  |
| 1     | A1   | External Platform/Road Signage (Circular)                      | 10       | 10,119  | 101,190          | 10          | 10,119  | 101,190          | 10          | 13,951  | 139,510          | 10          | 13,951  | 139,510          |
| 2     | A2   | External Platform/Road Signage (Triangular)                    | 10       | 9,257   | 92,570           | 10          | 9,257   | 92,570           | 10          | 12,762  | 127,624          | 10          | 12,762  | 127,624          |
| 3     | B1   | Main Directional Board   | 2        | 112,496 | 224,992          | 2           | 112,496 | 224,992          | 2           | 155,107 | 310,215          | 2           | 155,107 | 310,215          |
| 4     | C1   | Directional Board (Single Sheet)                               | 12       | 14,454  | 173,448          | 12          | 14,454  | 173,448          | 12          | 19,929  | 239,148          | 12          | 19,929  | 239,148          |
| 5     | C2   | Directional Board (Two Sheets)                                 | 1        | 22,495  | 22,495           | 1           | 22,495  | 22,495           | 1           | 31,016  | 31,016           | 1           | 31,016  | 31,016           |
| 6     | C3   | Directional Board (Three Sheets)                               | 2        | 30,158  | 60,316           | 2           | 30,158  | 60,316           | 2           | 41,581  | 83,163           | 2           | 41,581  | 83,163           |
| 7     | C4   | Directional Board (Four Sheets)                                | 2        | 37,243  | 74,486           | 2           | 37,243  | 74,486           | 2           | 51,351  | 102,701          | 2           | 51,351  | 102,701          |
| 8     | C5   | Directional Board (Five Sheets)                                | 1        | 45,228  | 45,228           | 1           | 45,228  | 45,228           | 1           | 62,360  | 62,360           | 1           | 62,360  | 62,360           |
| 9     | C6   | Directional Board (Six Sheets)                                 | 1        | 52,808  | 52,808           | 1           | 52,808  | 52,808           | 1           | 72,810  | 72,810           | 1           | 72,810  | 72,810           |
| 10    | C7   | Additional Panel (For Fixation on existing Foundation & Posts) | 3        | 7,944   | 23,832           | 3           | 7,944   | 23,832           | 3           | 10,952  | 32,857           | 3           | 10,952  | 32,857           |
| 11    | D1   | Departmental Signage on Building                               | 7        | 47,206  | 330,442          | 7           | 47,206  | 330,442          | 7           | 65,087  | 455,612          | 7           | 65,087  | 455,612          |
| 12    | E1   | External Map Boards  | 4        | 41,187  | 164,748          | 4           | 41,187  | 164,748          | 4           | 56,788  | 227,153          | 4           | 56,788  | 227,153          |
|       |      | <b>Internal Signage</b>  | 0        | -       | -                | 0           | -       | -                | 0           | -       | -                | 0           | -       | -                |
| 1     | F1   | Internal Hanging Signage (Main Entrance)                       | 7        | 90,873  | 636,111          | 7           | 90,873  | 636,111          | 7           | 125,294 | 877,061          | 7           | 125,294 | 877,061          |
| 2     | F2   | Internal Hanging Signage (Main Entrance 2)                     | 7        | 69,188  | 484,316          | 7           | 69,188  | 484,316          | 7           | 95,396  | 667,772          | 7           | 95,396  | 667,772          |
| 3     | F3   | Internal Hanging Signage (Corridor)                            | 6        | 51,241  | 307,446          | 6           | 51,241  | 307,446          | 6           | 70,651  | 423,906          | 6           | 70,651  | 423,906          |
| 4     | F4   | Internal Hanging Signage (Corridor 2)                          | 5        | 51,835  | 259,175          | 5           | 51,835  | 259,175          | 5           | 71,470  | 357,350          | 5           | 71,470  | 357,350          |
| 5     | G1   | Internal Department Signage on wall                            | 10       | 13,107  | 131,070          | 10          | 13,107  | 131,070          | 10          | 18,071  | 180,712          | 10          | 18,071  | 180,712          |
| 6     | H1   | Specialist Name Plaques fixed on wall                          | 20       | 3,767   | 75,340           | 20          | 3,767   | 75,340           | 20          | 5,194   | 103,880          | 20          | 5,194   | 103,880          |
| 7     | J1   | Room Name Plaques and Numbers fixed on wall                    | 120      | 866     | 103,920          | 120         | 866     | 103,920          | 120         | 1,194   | 143,304          | 120         | 1,194   | 143,304          |
| 8     | K1   | Internal Wall Signage  | 120      | 1,423   | 170,760          | 120         | 1,423   | 170,760          | 120         | 1,961   | 235,368          | 120         | 1,961   | 235,368          |
| 9     | L1   | Room Numbers Fixed on Wall                                     | 80       | 3,611   | 288,880          | 80          | 3,611   | 288,880          | 80          | 4,978   | 398,272          | 80          | 4,978   | 398,272          |
| 10    | M1   | Advance Fire Exit Sign   | 15       | 1,837   | 27,555           | 15          | 1,837   | 27,555           | 15          | 2,534   | 38,010           | 15          | 2,534   | 38,010           |
| 11    | M2   | Fire Exit Sign Mounted Above the Door                          | 15       | 1,271   | 19,065           | 15          | 1,271   | 19,065           | 15          | 1,753   | 26,292           | 15          | 1,753   | 26,292           |
| 12    | N1   | Fire Safety/Equipment Signage                                  | 25       | 2,434   | 60,850           | 25          | 2,434   | 60,850           | 25          | 3,357   | 83,930           | 25          | 3,357   | 83,930           |
| 13    | P1   | Floor Map Board  | 8        | 21,088  | 168,704          | 8           | 21,088  | 168,704          | 8           | 29,075  | 232,602          | 8           | 29,075  | 232,602          |
| 14    | Q1   | Caution Signage  | 30       | 2,173   | 65,190           | 30          | 2,173   | 65,190           | 30          | 2,996   | 89,880           | 30          | 2,996   | 89,880           |
| 15    | Q2   | Caution Signage  | 10       | 653     | 6,530            | 10          | 653     | 6,530            | 10          | 902     | 9,016            | 10          | 902     | 9,016            |
| 16    | Q3   | Caution Signage  | 15       | 1,143   | 17,145           | 15          | 1,143   | 17,145           | 15          | 1,576   | 23,646           | 15          | 1,576   | 23,646           |
| 17    | Q4   | Caution Signage  | 25       | 888     | 22,200           | 25          | 888     | 22,200           | 25          | 1,225   | 30,625           | 25          | 1,225   | 30,625           |
|       |      | <b>Total</b>   |          |         | <b>4,210,812</b> |             |         | <b>4,210,812</b> |             |         | <b>5,805,793</b> |             |         | <b>5,805,793</b> |
|       |      | Designing and Site Supervision                                 |          |         | 126,324          |             |         | 126,324          |             |         | 174,174          |             |         | 174,174          |
|       |      | <b>Grand Total</b>   |          |         | <b>4,337,136</b> |             |         | <b>4,337,136</b> |             |         | <b>5,979,967</b> |             |         | <b>5,979,967</b> |
|       |      |  |          |         | 4.337            |             |         | 4.337            |             |         | 5.980            |             |         | 5.980            |

## DAY CARE CENTER

### Yard Stick as per Women Development Department

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

| Sr. No.   | ITEMS                                      | Original                    |           |           | 1st Revised                 |           |           | 2nd Revised                 |           |           | 3rd Revised                 |           |           |
|---|--|-----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------------------------|-----------|-----------|-----------------------------|-----------|-----------|
|   |  | 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    |
| 17  | Electric Hand Dryer                        | 1                           | 4,000     | 4,000     | 1                           | 4,000     | 4,000     | 1                           | 4,000     | 4,000     | 1                           | 4,000     | 4,000     |
| 18  | Electric Heater                            | 2                           | 5,000     | 10,000    | 2                           | 5,000     | 10,000    | 2                           | 5,000     | 10,000    | 2                           | 5,000     | 10,000    |
| 19  | Ceiling/bracket Fans                       | 4                           | 8,000     | 32,000    | 4                           | 8,000     | 32,000    | 4                           | 8,000     | 32,000    | 4                           | 8,000     | 32,000    |
| 20  | Curtains                                   | 2                           | 45,000    | 90,000    | 2                           | 45,000    | 90,000    | 2                           | 45,000    | 90,000    | 2                           | 45,000    | 90,000    |
| 21  | Carpets                                    | 1                           | 100,000   | 100,000   | 1                           | 100,000   | 100,000   | 1                           | 100,000   | 100,000   | 1                           | 100,000   | 100,000   |
| 22  | Other miscellaneous items                  | 1                           | 218,675   | 218,675   | 1                           | 218,675   | 218,675   | 1                           | 218,675   | 218,675   | 1                           | 218,675   | 218,675   |
| TOTAL   |  |                             |           | 1,600,000 |                             |           | 1,600,000 |                             |           | 1,600,000 |                             |           | 1,600,000 |
|   |  |                             |           | 1,600     |                             |           | 1,600     |                             |           | 1,600     |                             |           | 1,600     |

### Human Resource Model of THQ Hospital

| Sr. No.                     | NAME OF POST  | Original         |                  |                             |                     | 1st Revised      |                  |                             |                     | 2nd Revised      |                  |                             |                      | 3rd Revised      |                   |                  |                                 |                      |
|-----------------------------|---|------------------|------------------|-----------------------------|---------------------|------------------|------------------|-----------------------------|---------------------|------------------|------------------|-----------------------------|----------------------|------------------|-------------------|------------------|---------------------------------|----------------------|
|                             |   | 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 OPERAOTOR (DEO)                            | 2                | 25,000           | 50,000                      | 600,000             | 2                | 25,000           | 50,000                      | 600,000             | 2                | 35,000           | 70,000                      | 1,680,000            | 2                | 3                 | 44,000           | 88,000                          | 2,728,000            |
| 9                           | ASSISTANT ADMIN OFFICER                               | 2                | 40,000           | 80,000                      | 960,000             | 2                | 40,000           | 80,000                      | 960,000             | 2                | 50,000           | 100,000                     | 2,400,000            | 2                | 5                 | 70,000           | 140,000                         | 4,340,000            |
| 10                          | HR FOR QMS and MSDS and Day Care Center               |                  |                  |                             |                     |                  |                  |                             |                     |                  |                  |                             |                      |                  |                   |                  |                                 |                      |
| 11                          | QMS Supervisor / Information Desk Officer             | 2                | 25,000           | 50,000                      | 600,000             | 2                | 25,000           | 50,000                      | 600,000             | 2                | 25,000           | 50,000                      | 600,000              | 2                |                   | 25,000           | 50,000                          | 600,000              |
| 12                          | Computer Operator                                     | 8                | 20,000           | 160,000                     | 1,920,000           | 8                | 20,000           | 160,000                     | 1,920,000           | 8                | 20,000           | 160,000                     | 1,920,000            | 8                |                   | 20,000           | 160,000                         | 1,920,000            |
| 13                          | Consultants (MSDS) Implementation & Clinical Audit    | 1                | 100,000          | 100,000                     | 1,200,000           | 1                | 100,000          | 100,000                     | 1,200,000           | 1                | 100,000          | 100,000                     | 1,200,000            | 1                |                   | 100,000          | 100,000                         | 1,200,000            |
| 14                          | Training on MSDS Compliance for Staff of THQ Hospital | 1000             | 4,000            | 4,000,000                   | 4,000,000           | 1000             | 4,000            | 4,000,000                   | 4,000,000           | 1000             | 4,000            | 4,000,000                   | 4,000,000            | 1000             |                   | 4,000            | 4,000,000                       | 4,000,000            |
| 15                          | Rent for Vehicle                                      |                  |                  |                             | 500,000             |                  |                  |                             | 500,000             |                  |                  |                             | 500,000              |                  |                   |                  | 0                               | 500,000              |
| 16                          | Manager Day Care Center                               | 1                | 45,000           | 45,000                      | 540,000             | 1                | 45,000           | 45,000                      | 540,000             | 1                | 45,000           | 45,000                      | 540,000              | 1                |                   | 45,000           | 45,000                          | 540,000              |
| 17                          | Montessori Trained Teacher                            | 1                | 35,000           | 35,000                      | 420,000             | 1                | 35,000           | 35,000                      | 420,000             | 1                | 35,000           | 35,000                      | 420,000              | 1                |                   | 35,000           | 35,000                          | 420,000              |
| 18                          | Attendant / Care Giver                                | 4                | 25,000           | 100,000                     | 1,200,000           | 4                | 25,000           | 100,000                     | 1,200,000           | 4                | 25,000           | 100,000                     | 1,200,000            | 4                |                   | 25,000           | 100,000                         | 1,200,000            |
| 19                          | Office Boy  | 1                | 20,000           | 20,000                      | 240,000             | 1                | 20,000           | 20,000                      | 240,000             | 1                | 20,000           | 20,000                      | 240,000              | 1                |                   | 20,000           | 20,000                          | 240,000              |
| Sub Total of HR Model       |   |                  |                  | 4,860,000                   | 17,220,000          |                  |                  | 4,860,000                   | 17,220,000          |                  |                  | 5,040,000                   | 28,140,000           |                  |                   |                  | 5,273,000                       | 40,473,000           |
|                             |   |                  |                  |                             | 17.220              |                  |                  |                             | 17.220              |                  |                  |                             | 28.140               |                  |                   |                  |                                 | 40.473               |
| Utilization of HR Component |   |                  |                  |                             |                     |                  |                  |                             | 14.210              |                  |                  |                             | 18.96                |                  |                   |                  |                                 |                      |
| Total of HR Component       |   |                  |                  |                             |                     |                  |                  |                             |                     |                  |                  |                             | 42.35                |                  |                   |                  |                                 | 59.433               |

## Janitorial Services

|   | Original      |                  | From 1st Revised to onward   |
|---|---------------|------------------|--|
| Assumptions   |               |                  | <p>In the light of decision made during the Progress Review Meeting of Revamping of DHQ/THQ Hospitals held on 01-01-2018 under the Chairmanship of Chairman, P&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 residential area               | 45,022        | sft              |  |
| Covered area assigned to one sweeper                  | 7,500         | sft              |  |
| Number of sweepers required for covered area          | 6             | Persons          |  |
| Road and ROW area                                     | 89,747        | sft              |  |
| Road and ROW assigned to one sweeper                  | 15,000        | sft              |  |
| Number of sweepers required for road and ROW area     | 6             | Persons          |  |
| Number of washroom blocks                             | 11            | blocks           |  |
| Number of washroom block assigned to one sweeper      | 3             | Persons          |  |
| Number of sweepers required for total washroom blocks | 4             | Persons          |  |
| Total sweeper in morning shift                        | 16            | Persons          |  |
| Total number of sweepers in evening shift             | 8             | Persons          |  |
| Total number of sweepers in night shift               | 8             | Persons          |  |
| Total number of sweepers in all shifts                | 31            | 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                                   | 31            | 22,000           | 8,273,549  |
| 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)                          |               |                  | 14,801,549   |
| 14,802  |               |                  |  |

14.802

## 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  | 45,022               |                         |  |                            |  |
| Covered Area per guard   | 15,000               |                         |  |                            |  |
| <b>Number of guards</b>  | <b>3</b>             |                         |  |                            |  |
| Open area excluding parking area   | 89,747               |                         |  |                            |  |
| 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>6</b>             |                         |  |                            |  |
| Number of gates  | 3                    |                         |  |                            |  |
| <b>Number of guards at gates</b>   | <b>6</b>             |                         |  |                            |  |
| <b>Total No of Guard</b>   | <b>15</b>            |                         |  |                            |  |
| Total number of all guards for second shift  | 7                    |                         |  |                            |  |
| <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  | 8                    | 21,525                  | 172,200                                | 2,066,400                  |  |
| Civilian   | 12                   | 21,000                  | 252,000                                | 3,024,000                  |  |
| Lady Searcher  | 4                    | 21,525                  | 86,100                                 | 1,033,200                  |  |
| Parking  | 2                    | 21,525                  | 43,050                                 | 516,600                    |  |
| <b>Sub total</b>   |                      |                         |  | <b>7,232,400</b>           |  |
| <b>Equipment cost</b>  |                      |                         |  |                            |  |
| Lump sum Provision (Walk Through Gate=1, Metal Detector=5, Walkies Talkies=10, Base Set=1) |                      |                         |  | 500,000                    |  |
| <b>Sub total</b>   |                      |                         |  | <b>500,000</b>             |  |
| <b>Subtracting Parking Fees</b>  |                      |                         |  | 500,000                    |  |
| <b>Total Security and Parking Services</b>   |                      |                         |  | <b>7,232,400</b>           |  |
|  |                      |                         |  | <b>7.232</b>               |  |

## Laundry Services

|                                | <b>Original</b> |                       | <b>From 1st Revised to onward</b> |
|--------------------------------|-----------------|-----------------------|-----------------------------------|
| Number of beds                 | 100             |                       |                                   |
| Type of Item                   | No of Beds      | Per bed cost per year | Total Cost                        |
| No of Bed                      | 100             | 30,000                | 3,000,000                         |
| Transport Charges              |                 |                       | 1,200,000                         |
| <b>Total for laundry items</b> |                 |                       | <b>4,200,000</b>                  |
| <b>Total</b>                   |                 |                       | <b>4.200</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.



## Maintenance of Generator

|                                    | Original |               |                  | From 1st Revised to onward |
|------------------------------------|----------|---------------|------------------|----------------------------|
| Item Name                          | Quantity | Cost per year | Total Cost       |                            |
| <b>Periodical Maintenance Cost</b> |          |               |                  |                            |
| Number of Generators (200 KVA)     | 1        | 500,000       | 500,000          |                            |
| Number of Generators (100 KVA)     | -        | 300,000       | -                |                            |
| Number of Generators (50 KVA)      | -        | 175,000       | -                |                            |
| Repairs Cost                       | 1        | 500,000       | 500,000          |                            |
| <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>2,320,000</b> |                            |
|                                    |          |               | <b>2.320</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.

## 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:</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> |
| 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>         |  |
|                                 |               |                               |                                    |                          |  |
|                                 | <b>No.</b>    | <b>Per Unit Cost per Year</b> | <b>Cost per Year for all Items</b> | <b>Cost for One Year</b> |  |
| A/C                             | 200           | 6,665                         | 1,333,000                          | 1,333,000                |  |
| 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>2,082,000</b>         |  |
| <b>General Total</b>            |               |                               |                                    | <b>4,686,000</b>         |  |
|                                 |               |                               |                                    | <b>4.686</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         |  |                                      |                                     |                   | <b>1,304,400</b>           |  |

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:</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> |
| 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

| Sr. No. | Description   | Unit  | Quantity | Original      |            | From 1st Revised to onward   |
|---------|---|-------|----------|---------------|------------|--|
|         |   |       |          | Unit Rate Rs. | Amount Rs. |  |
| 1       | <b>SOFT LANDSCAPE</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 whereas Rs. 0.048 million has been charged in this scheme against Design Consultancy from development side before the above said decision, hence it is reflected in this PC-I.</p> |
| 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   | 13,960   | 22            | 307,127    |  |
| 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.   | Sft   | 19,146   | 7             | 134,019    |  |
| 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.  | Sft   | 23,932   | 11.25         | 269,235    |  |
| 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, Pilken, Mangifera etc.  | No's  | 98       | 1,500         | 147,000    |  |
| b       | Trees 12" pot 3'-4' - Polyalthia Long folia, Terminally, Cassia Fistula, Bauhinia Variegated, Latonia Choirs, Delonix Regia, Ficus Yellow, Focus Black, ficus Starlight, Melaluca, Mimuspps, Pine, Ficus Amestral, Pilken, Palms etc.   | No's  | 23       | 270           | 6,210      |  |
| c       | Plantation of Fruit Plants in the vacant area 12" pot 3'-4' - Am rood, Jaman, Berri, Mango, Citrus. Including site preparation, plantation, watering and maintenance for six months.  | No's  | 40       | 600           | 24,000     |  |
| 1.5     | Shrubs and Ornamental Plants 10" pot Pittosporum Variegated, Murray Small, Ixora Coccinea, Juniper Varigated, Hibiscus Varigated, Carronda Dwarf Spp, Jasmine Sambac(Mottya), Leucophyllum Frutescens(Silvery), Rose, Nerium, Lantana, Canna, Asparagress, Conocarpus, Acalypha, Callistemon Dwarf, Cestrum, Thabernaemontara Variegated etc. | No's  | 8,703    | 69            | 600,507    |  |
| a       | Shrubs and Ornamental Plants 12" pot Pittosporum Varigated, Ixora Cochineal, Juniper Variegated, Carronade Dwarf, Jasmine Thai, Plumier Robar, Cassia Malacca, Largest mea, Euphorbia, Jestropha Thai etc   | No's  | 1,368    | 195           | 266,760    |  |
| 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), Hemercolliis(Davilly), Duranta etc   | No's  | 9,294    | 12            | 111,528    |  |
| 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, Wodyetia Bifurcate, Washingtonian Palm, Biskarkia etc.   | No's  | 11       | 3,675         | 40,425     |  |
| b       | Palm 18" pot - Phoenix Palm, Cyrus Palm   | No's  | 15       | 1,800         | 27,000     |  |
| 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  | 46       | 195           | 8,970      |  |
| 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 with 1:2:4 PCC, supply of 7000PSI tuff tiles 60mmas per approved design fixing on 4" brick ballast compacted and grouting with sand.   | Sft   | 1915     | 150           | 287,250    |  |
| 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  | 9        | 14,698        | 132,282    |  |
| 2.3     | <b>DUSTBINS</b>   |       |          |               |            |  |
|         | Complete in all respects and to the satisfaction of Engineer as per approved design.  | No's  | 6        | 27,700        | 166,200    |  |
| 2.4     | <b>PLAYING EQUIPMENTS</b>   |       |          |               |            |  |

## LANDSCAPE DEVELOPMENT WORKS COST ESTIMATE

|     |   | Original |        |         | From 1st Revised to onward |
|-----|---|----------|--------|---------|----------------------------|
|     | Complete in all respects and to the satisfaction of Engineer as per approved design.  | No's     | 1      | 544,939 | 544,939                    |
| 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     | 8      | 3,850   | 30,800                     |
| 2.6 | <b>WATER POINTS (Injector Pump 1HP)</b>   | No's     | 1      | 45,000  | 45,000                     |
| 3   | <b>SOFT LANDSCAPE MAINTENANCE</b><br>(Including maintenance and up keeping of site for 6 months) after development as per specifications and to the satisfaction of Engineer. | Stt      | 47,864 | 9.00    | 430,776                    |
| 4   | <b>CONSTRUCTION OF PLANTERS</b>   |          |        |         |                            |
|     | <b>Large Size</b>   |          |        |         |                            |
| 4.1 | with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.  | No's     | 186    | 550     | 102,300                    |
|     | <b>Medium Size</b>  |          |        |         |                            |
| 4.2 | with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.  | No's     | 24     | 550     | 13,200                     |
|     | <b>Small Size</b>   |          |        |         |                            |
| 4.3 | with keystones fixed with cement with top concrete slab as per design and to the satisfaction of Engineer.  | No's     | 45     | 550     | 24,750                     |
| 5   | <b>GAZEBO</b><br>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>3,954,654</b>           |
|     | <b>PRA(16%)</b>   |          |        |         | 632,745                    |
|     | <b>Design Consultancy</b>   |          |        |         | 100,000                    |
|     | <b>Grand Total</b>  |          |        |         | <b>4,687,398</b>           |
|     |   |          |        |         | <b>4.687</b>               |

From,

**The Superintending Engineer,  
Buildings Circle, Bahawalpur**

To,

**The Chief Executive Officer (CEO),  
Rahim Yar Khan.**

No. **4528**

/DB,

Dated: **29/12/ 2021.**

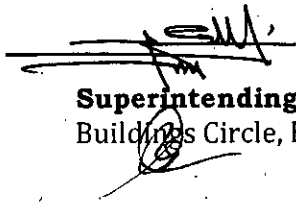
Subject:-

**ROUGH COST ESTIMATES OF ADP SCHEMES "BALANCE WORK OF  
REVAMPING OF ALL DHQ/15 THQ HOSPITALS IN PUNJAB ONE AT TEHSIL  
HEADQUARTER HOSPITAL SADIQABAD DISTRICT RAHIM YAR KHAN  
(ADP SCHEMES NO.1013/ 2021-22).**

The Scheme was approved for amounting to **Rs.42.007 (M)** by the Secretary Primary & Secondary Healthcare Department vide letter No.PO(D-II)1-237/2021, dated 09.11.2021. The work could not be allotted due to increase in Market Rates. Now, the new MRS 1<sup>st</sup> Bi-Annul 2022 has been notified by the Finance Department and there is considerable increase in rates.

Hence, this amended rough cost estimate amounting to **Rs.49.349 (M)** for the scheme cited as subject has been reframed on the basis of fresh MRS for 1<sup>st</sup> Bi-Annual 2022 is being submitted herewith dully vetting for arranging amended administrative approval, there is no change in original approved scope of work, please

DA/ Estimates

  
**Superintending Engineer,  
Buildings Circle, Bahawalpur**


**Endstt.**

/DB,

**Dated**

**/2021.**

Copy is forwarded for information to the Executive Engineer, Buildings Division, Rahim Yar Khan with reference to his office letter No.854/DB, dt: 27.12.2021.

  
**Superintending Engineer,  
Buildings Circle, Bahawalpur.**





# PUNJAB BUILDINGS DEPARTMENT



**BAHAWALPUR**

BUILDINGS DIVISION, RAHIM YAR KHAN

DIVISION:-

SUB DIVISION:-

BUILDINGS SUB DIVISION NO.1  
RAHIMYARKHAN

NAME OF WORK:-

AMENDED ROUGH COST ESTIMATE FOR  
"PROGRAM FOR REVAMPING OF ALL THQ  
HOSPITALS IN PUNJAB ONE AT TEHSIL  
HEADQUARTER HOSPITAL SADIQABAD  
DISTRICT RAHIM YAR KHAN." ADP  
NO.1013/2021-22.

ESTIMATED COST:

Rs.49.349 (M)



2

**AMENDED ROUGH COST ESTIMATE FOR "PROGRAM FOR REVAMPING-OF ALL THQ HOSPITALS IN PUNJAB ONE A TEHSIL HEADQUARTER HOSPITAL SADIQABAD DISTRICT RAHIM YAR KHAN." ADP NO.1013/2021-22.**

**HISTORY:-**

The Project Manager Civil Project Management Unit P & SHC Department has requested to prepare rough cost estimate vide No. PMU/(P&SHC)/2021/1140 dated 07-04-2021 for the above mentioned work. Accordingly the rough cost estimate "Revamping of Main Building in THQ hospital Sadiq Abad was technically vetted by the Superintending Engineer Circle Bahawalpur amounting to **Rs.42.007(M)**. The administrative approval amounting to **Rs.42.007 (M)** was issued by the Secretary P&SHC Department. The tenders were called on 23.12.2021 but no contractor participated due to inflation in the market rates of the materials. Now the new MRS 1<sup>st</sup> Bi-Annual 2022 has been notified by the Finance Department and there is huge increase in the rates so the amended approval on new rates is required.

Keeping in view, the amended rough cost estimate with new plinth area rates 1<sup>st</sup> Bi-Annual 2022, amounting to **Rs.49.349 (M)** has been prepared and submitted for arranging amended administrative approval.

**SCOPE OF WORK:-**

The following provisions have been made in the estimate:-

|                               |       |
|-------------------------------|-------|
| A) Revamping of Main Building | 1-Job |
| B) External Development Work  | 1-Job |

**SPECIFICATIONS:-**

Latest approved specifications will be followed during execution of the scheme and work will be got carried out to the entire satisfaction of the Engineer Incharge.

**RATES:-**

The amended rough cost estimate has been prepared on the basis of MRS/Plinth Area Rates for the 1<sup>st</sup> Bi-Annual for the year 2022.

**LAND:-**

No provision for acquisition of land has been made in the estimate, as the same is available with Client Department.

**COST:-**

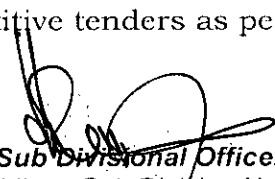
Total Cost of this scheme works out to **Rs.49.349/-**

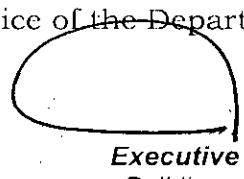
**TIME LIMIT:-**

It will take about **12-Months** to complete the work from the actual date of commencement. Provided adequate funds are required.

**CARRYING OUT OF WORK:-**

The work will be carried out at site through the approved Govt. contractor after calling competitive tenders as per usual practice of the Department.

  
Sub Divisional Officer,  
Buildings Sub Division No.02,  
Rahim Yar Khan.

  
Executive Engineer  
Buildings Division,  
Rahim Yar Khan.





No. PMU/(P&SHD)/2021/1489  
PROJECT MANAGEMENT UNIT  
P&S HEALTHCARE DEPARTMENT  
(31-E/1, Shahrah-e-Hazrat Imam Hussain  
Gulberg-III, Lahore, Ph: 042-99231208)  
Dated: December 21, 2021

To

Executive Engineer,  
Buildings Division,  
Rahim Yar Khan.

|                     |
|---------------------|
| Bldgs : Div III     |
| Rahim Yar Khan      |
| Slary No... 166/... |
| Dated... 27.12.21   |

H.D. B.A.C.  
H.C. E.E.

SUBJECT:

**EXECUTION/COMPLETION OF VARIOUS PRIMARY AND SECONDARY  
HEALTHCARE DEPARTMENT PROJECT FOR THE FINANCIAL YEAR OF  
2021-2022 OF RAHIM YAR KHAN DISTRICT.**

It is stated that Primary and Secondary Healthcare Department (P&SHD) is determined to enhance the service delivery of its primary and secondary healthcare facilities. For this purpose, P&SHD has chalked out the most deserving Healthcare facilities across the Punjab. Execution/Revamping of Primary & Secondary Healthcare facilities is a top priority among development programmes of Government of Punjab.

Several Healthcare facilities of District Rahim Yar Khan lying under following schemes of ADP were approved in DDSC in this financial year.

- ADP No. 1013 "Balance Work of Revamping of all DHQ/ 15 THQ Hospitals in Punjab"
- ADP No. 995 "Strengthening of Basic Health Units (BHU's) of Punjab Phase-II".
- ADP No. 792 "Programme for Revamping of all THQ Hospitals in Punjab".

Despite Execution/Completion of all sub schemes of above projects, only following schemes are selected for execution/completion in this financial year. In order to complete this partial funding of these following schemes have already been done and remaining funds are likely to be released before 15<sup>th</sup> January 2022.

So in view of above, it is stated to please take further necessary action (Tendering/Execution or Revision of Estimates as per 1<sup>st</sup> Bi-Annual MRS of 2022) for in time completion of these sub schemes. However, in case the estimates of these below mentioned facilities are need to be revised as per New MRS rates (1st Jan 2022 to 31st July 2022) then it must be noted that only rates may be revised on the similar scope which is already approved as per P&D Guidelines.

P.T.O  
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| Sr. # | Name of Health Facility                | Division       | Approved Cost as per 2 <sup>nd</sup> Hb. Annual 2021 |
|-------|--|----------------|--|
| 1     | Revanping of TIK Hospital<br>Khanpur   | Rahim Yar Khan | 154,238 (M)  |
| 2     | Revanping of TIK Hospital<br>Sadiqabad | Rahim Yar Khan | 42,007 (M)   |

Project Manager Civil  
PMU PASHD

A copy is forwarded for information to the:

1. Project Director, PMU, Primary and Secondary Healthcare Department Punjab;
2. Deputy Project Director, PMU, Primary and Secondary Healthcare Department Punjab;
3. Chief Engineer Buildings South, Lahore;
4. Director Infrastructure, PMU, Primary and Secondary Healthcare Department Punjab;
5. Chief Executive Officer Health Rahim Yar Khan;
6. Office copy I&C wing.

No. \_\_\_\_\_ dated \_\_\_\_\_

A copy of above letter is forwarded to the S&S buildings

S&S Division No. of Rahim Yar Khan. Khairpur and Sadiqabad  
& Liaison for information and necessary action please.

Executive Engineer  
Building Division  
Rahim Yar Khan

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Primary & Secondary  
Healthcare Department

GOVERNMENT OF THE PUNJAB  
Dated Lahore the 27.11.2021

**ORDER**

**No. PO(D-II)1-237/2021:** Consequent upon the decision of Departmental Development Sub Committee (DDSC), in its meeting held on 29.09.2021, the Governor of the Punjab is pleased to accord 2<sup>nd</sup> revised Administrative Approval of 10 sub-schemes under block scheme titled "Programme for Revamping of all THQ Hospitals in Punjab" at cost mentioned against each sub-scheme, with revised gestation period upto 30.06.2023:

| Sr. No. | Sub-Scheme Title   | 2 <sup>nd</sup> Revised Cost |                   |         |
|---------|--|------------------------------|-------------------|---------|
|         |  | Capital Component            | Revenue Component | Total   |
| 1       | Revamping of THQ Hospital, Kohata District Rawalpindi              | 37.709                       | 199.102           | 236.811 |
| 2       | Revamping of THQ Hospital, Gujar Khan District Rawalpindi          | 37.256                       | 174.999           | 212.255 |
| 3       | Revamping of THQ Hospital, Taxila District Rawalpindi              | 41.276                       | 203.223           | 244.506 |
| 4       | Revamping of THQ Hospital, Mian Meer Lahore Cantt. District Lahore | 44.697                       | 192.796           | 237.493 |
| 5       | Revamping of THQ Hospital, Govt. Civil Hospital Multan             | 67.143                       | 200.403           | 267.546 |
| 6       | Revamping of THQ Hospital, Khanpur District Rahim Yar Khan         | 154.238                      | 209.777           | 364.015 |
| 7       | Revamping of THQ Hospital, Lohatpur District Rahim Yar Khan        | 44.187                       | 193.016           | 236.203 |
| 8       | Revamping of THQ Hospital, Sandabad District Rahim Yar Khan        | 42.007                       | 216.902           | 258.909 |
| 9       | Revamping of THQ Hospital Sarai Alamgar District Gujrat            | 14.876                       | 195.653           | 210.528 |
| 10      | Revamping of Civil Hospital Fort Munro District D G Khan           | 48.097                       | 216.014           | 264.111 |

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

**Capital Component**

Grant No.12042 (042) Government Building-04-Economic Affairs-045 Construction and Transport -0457 Construction (Work)-0457-02 Building and structure.

**Revenue Component**

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

(IMRAN SIKANDAR BALOCH)  
SECRETARY P&SH DEPARTMENT

Page 1 of 2

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NO. & DATE EVEN:

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

1. Accountant General, Punjab, Lahore.
2. Chief (Health-II), Planning & Development Department, Lahore.
3. Director General Health Services, Punjab, 24-Copper Road, Lahore.
4. Chief Engineer (North, Central & South Zones), Buildings, Lahore.
5. Project Director, Project Management Unit, P&SH Department.
6. Section Officer (Health-I), Finance Department.
7. Budget Officer-I & III, Finance Department.
8. All Planning Officer, P&SH Department.
9. PS to Secretary, P&SH Department.
10. PA to Special Secretary, P&SH Department.
11. PA to Additional Secretary (D&F), P&SH Department.
12. PA to Additional Secretary (Admin), P&SH Department.
13. PA to Deputy Secretary (D), P&SH Department.

*Asif Rasheed*  
 (A. ASIF RASHEED)  
 PLANNING OFFICER (I),



# Document for Scope of THQs Revamping

## A. External Development

### Road Networking (Asphalt)

Rehabilitation and Repair of Existing Road Network:

Construction of new asphalt road where required

### Internal Plat forms/Pathways

Construction, Alteration and Rehabilitation of plat forms / external pathways other than asphalt road (e.g. P.C.C, Tough Paver etc.) in order to have easiest access to all the facilities of complex should be designed

### Boundary Wall

Existing boundary wall of complex should be examined and addition of missing wall (Clinical Side), and strengthening solutions of existing wall and dismantling/reconstruction (if required) should be assessed

### Sewerage System

The functionality of the existing sewerage system of clinical blocks of hospitals needs to be examined and provisions for its optimal functions keeping in view the present and future hospital requirements are required. Provisions for replacement of cracked/undersized existing sewerage line along with rehabilitation of manholes may also be incorporated therein.

### Water Supply System

Repair of existing external water supply line of clinical blocks of hospital

Provision for new water supply lines where required.

### Water Filtration plant with supply system

Provision for new water filtration plant vis-à-vis the hospital requirements may be incorporated. All important points including OPD, wards, waiting areas, emergency and other blocks must be provided with drinking water stations, for which the distribution system needs to be planned and made a part of the estimates.

Repair / Rehabilitation of existing water filtration plant along with provision of drinking water distribution system as mentioned above.

### External Electrification

Provisions of main power supply cable (4 - Core), main power panels / distribution boxes (from transformer to main meter and main meter to distribution boxes) should

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be incorporated keeping in view the current distributive and future electric load of the complex

Provisions of external pole lights should be made within the clinical blocks of hospital  
Provision of complete earthing and lighting protection system for clinical blocks including all electrical equipment.

### External Waiting Area and Parking Facility

External waiting area should be provided according to the space requirement.

Parking facility should be provided according to the space requirement.

## B. Internal Development

### Tile work

Suitable tile work for flooring and skirting/dado (5") by keeping in view the existing and adjacent tile work condition should be proposed in complete hospital. (Provisions of 2' x 2' full body porcelain tile for flooring and 2' x 1' for dado are suggested to match with the tile work of already revamped 40 DHQ/THQ Hospitals).

The tile work where found in good condition should only be incorporated for minor repair rather than complete replacement.

### Ramps and Stairs

Coarse Grained / Rough Textured / Anti-skid flooring should be proposed on the ramp/stretcher way along with guard and handrails for stable movement of stretcher ramp and patient/attendants on stairs should be proposed.

### Paint and dampness works

Paint work type on interior and exterior side of clinical blocks of hospital should be assessed by keeping in view the existing paint condition of hospital  
Assessments regarding elimination of dampness origin or source and regarding concealment of existing dampness should be made and appropriate solutions should be incorporated

Flooring Ceiling and Wall requirements of high cleanliness requiring areas like Operation Theaters (OTs), Gynecology OT, Labor room and ICU cum CCU should be incorporated with Anti-Bacterial Material (Provision of Antistatic, Antimicrobial Vinyl flooring and wall panels with monolithic false ceiling of gypsum or non-porous material are suggested)  
Provision of lead lining in X-Ray Rooms should be made.

| STATION    | FREQ  | MODE | BAND |      |       |        | VOLUME/POWER | REMARKS             |
|------------|-------|------|------|------|-------|--------|--------------|---------------------|
|            |       |      | 100  | 1000 | 10000 | 100000 |              |                     |
| STATION 1  | 100.0 | FM   |      |      |       |        |              | REMARKS: STATION 1  |
| STATION 2  | 100.1 | FM   |      |      |       |        |              | REMARKS: STATION 2  |
| STATION 3  | 100.2 | FM   |      |      |       |        |              | REMARKS: STATION 3  |
| STATION 4  | 100.3 | FM   |      |      |       |        |              | REMARKS: STATION 4  |
| STATION 5  | 100.4 | FM   |      |      |       |        |              | REMARKS: STATION 5  |
| STATION 6  | 100.5 | FM   |      |      |       |        |              | REMARKS: STATION 6  |
| STATION 7  | 100.6 | FM   |      |      |       |        |              | REMARKS: STATION 7  |
| STATION 8  | 100.7 | FM   |      |      |       |        |              | REMARKS: STATION 8  |
| STATION 9  | 100.8 | FM   |      |      |       |        |              | REMARKS: STATION 9  |
| STATION 10 | 100.9 | FM   |      |      |       |        |              | REMARKS: STATION 10 |



Name of work:-

**AMENDED ROUGH COST ESTIMATE FOR "PROGRAM FOR REVAMPING OF ALL THQ HOSPITALS IN PUNJAB ONE AT TEHSIL HEADQUARTER HOSPITAL SADIQABAD DISTRICT RAHIM YAR KHAN." ADP NO.1013/2021-22.**

i) Administrative approval.

a Amount.

**Rs.42.007 (M)**

b Number and date.

**S.E No.3543/2020-21 dated 29.11.2021.**

ii) Amount of amended estimate

**Rs.49.349 (M)**


| Sr. No. | Description of itmes  | As per Approved Rough Cost Estimate |            |      |            | As per Amended Rough Cost Estimate |            |      |            | Difference (B-A) | Remarks                                |
|---------|---|-------------------------------------|------------|------|------------|------------------------------------|------------|------|------------|------------------|--|
|         |   | Plinth Area/ Quantity               | Rates      | Unit | Total (A)  | Plinth Area/ Quantity              | Rates      | Unit | Total (B)  |                  |  |
| 1       | 2   | 3                                   | 4          | 5    | 6          | 7                                  | 8          | 9    | 10         | 11               | 12                                     |
| 1       | Revamping of Main Building<br>(Internal Development, The Work, Ramp, Stair Paint & Dampness work lead lining, façade improvement, internal fixtures, internal electrification and imititious repair work of building)   | 1                                   | 23,738,249 | Job  | 23,738,249 | 1                                  | 27,483,000 | Job  | 27,483,000 | 3744751          | Based on MRS Rates 1st Bi Annual 2022. |
| 2       | Revamping of Toilet Block (for 35-Nos)  | 1                                   | 2,510,977  | Job  | 2,510,977  | 1                                  | 3,675,000  | Job  | 3,675,000  | 1164023          | --do--                                 |
| 3       | Re-Construction of Boundary Wall (150-Rft)  | 1                                   | 464,218    | Job  | 464,218    | 1                                  | 524,000    | Job  | 524,000    | 59782            | --do--                                 |
| 4       | Provision of Water Filtration Plant with Supply System  | 1                                   | 2,887,145  | Job  | 2,887,145  | 1                                  | 3,458,000  | Job  | 3,458,000  | 570855           | --do--                                 |
| 5       | Provision of Tuff Paver   | 1                                   | 512,398    | Job  | 5,123,918  | 1                                  | 6,283,000  | Job  | 6,283,000  | 1159082          | --do--                                 |
| 6       | Supply and Erection of 10 ft high Cantiliver type Car Parking Shed consisting of 3 mm thick fiber glass sheet roof fixed / riveted with moulded curved frame comprising of 1-1/2"x1-1/2" 16-SWG MS box placed @ 2 ft C/C both sides and 1-1/2"x3" M.S box 16-SWG at front and back side welded on cantiliever arch type MS pipe 3" dia arms welded with 3/8" thick and 8 " dia Main Post duly welded with 1/2" thick 1.5"x1.5' base plate and 4 no stiffeners of 1/2" thick MS sheet embedded in PCC 2'x2'x3' with 18" long nut bolts 1"dia I/c cost of foundation, cutting, straightening assembling, bending as per drawing, welding / grinding of joints and painting three coats complete in all respect as approved by the Engineer Incharge. 8(12x18) | 1                                   | 1,441,152  | Job  | 1,441,152  | 1728                               | 544        | Job  | 939,514    | -501638          | --do--                                 |
| 7       | Externel Water Supply System  | 1                                   | 575,536    | Job  | 575,536    | 1                                  | 1,275,200  | Job  | 1,275,200  | 699664           | --do--                                 |
| 8       | Externel Sewerage System  | 1                                   | 1,047,346  | Job  | 1,047,346  | 1                                  | 1,112,500  | Job  | 1,112,500  | 65154            | --do--                                 |





| Sr. No. | Description of itmes                         | As per Approved Rough Cost Estimate |           |      |               | As per Amended Rough Cost Estimate |           |      |               | Difference (B-A) | Remarks |
|---------|--|-------------------------------------|-----------|------|---------------|------------------------------------|-----------|------|---------------|------------------|---------|
|         |  | Plinth Area/ Quantity               | Rates     | Unit | Total (A)     | Plinth Area/ Quantity              | Rates     | Unit | Total (B)     |                  |         |
| 9       | Provision of Electrification of Street Light | 1                                   | 1,840,300 | Job  | 1,840,300     | 1                                  | 1,805,000 | Job  | 1,805,000     | -35300           | --do--  |
|         | <b>Total (Rs) =</b>                          |                                     |           |      | 39,628,841    |                                    |           |      | 46,555,214    | 6926373          |         |
|         | Add 1% Harticulture Charges                  |                                     |           |      | 396,288       |                                    |           |      | 465,552       | 69,264           |         |
|         | Add 5% PRA                                   |                                     |           |      | 1,981,442     |                                    |           |      | 2,327,761     | 346319           |         |
|         | <b>Total (Rs) =</b>                          |                                     |           |      | 42,006,571    |                                    |           |      | 49,348,526    | 7341955          |         |
|         | <b>SAY (Rs). =</b>                           |                                     |           |      | 42,007,000    |                                    |           |      | 49,349,000    | 7,342,000        |         |
|         | <b>OR (Rs.) =</b>                            |                                     |           |      | Rs.42.007 (M) |                                    |           |      | Rs.49.349 (M) | Rs.7.342 (M)     | Excess  |

17.48% Excess

  
Sub Engineer

  
Sub Divisional Officer,  
Buildings Sub Division No.2  
Rahimyarkhan

  
Executive Engineer,  
Buildings Division,  
Rahimyarkhan

  
Superintending Engineer  
Buildings Circle Bahawalpur



# ESTIMATE FOR REVAMPING OF MAIN BUILDING

1st Bi Annual 2022

1 Removing door with chowkat.

= 16 Nos  
@ 362.35 Each Rs5,798

2 Fixing door, including chowkats.

= 16 Nos  
@ 603.90 Each Rs9,662

3 Dismantling glazed or encaustic tiles, etc.

1 x 125 x 12.0  
2 x 135 x 12.0  
4 x 19 x 36.0

= 1500 Sft  
= 3240 Sft  
= 2736 Sft  
Total = 7476 Sft  
@ 1932.50 %Sft Rs144,474

4 Dismantling cement concrete 1:2:4 Plain.

1 x 125 x 12.0 x 0.125  
2 x 135 x 12.0 x 0.125  
4 x 19 x 36.0 x 0.125

= 188 Cft  
= 405 Cft  
= 342 Cft  
Total = 935 Cft  
@ 9060.50 %Cft Rs84,716

5 Dismantling mud concrete.

1 x 125 x 12.0 x 0.33  
2 x 135 x 12.0 x 0.33  
4 x 19 x 36.0 x 0.33

= 495 Cft  
= 1069 Cft  
= 903 Cft  
Total = 2467 Cft  
@ 1647.50 %Cft Rs40,644

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

1 x 125 x 12.0 x 0.33  
2 x 135 x 12.0 x 0.33  
4 x 19 x 36.0 x 0.33  
1 x 125 x 12.0 x 0.33  
1 x 178 x 12.0 x 0.33  
1 x 210 x 12.0 x 0.33  
2 x 110 x 12.0 x 0.33  
4 x 22 x 36.0 x 0.33

= 495 Cft  
= 1069 Cft  
= 903 Cft  
= 495 Cft  
= 705 Cft  
= 832 Cft  
= 871 Cft  
= 1045 Cft  
Total = 6415 Cft  
@ 5161.30 %Cft Rs331,097

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

1 x 125 x 12.0 x 0.125  
2 x 135 x 12.0 x 0.125  
4 x 19 x 36.0 x 0.125  
2 x 110 x 12.0 x 0.125  
4 x 22 x 36.0 x 0.125

= 188 Cft  
= 405 Cft  
= 342 Cft  
= 330 Cft  
= 396 Cft  
Total = 1661 Cft  
@ 28918.55 %Cft Rs480,337

8 Providing and laying Full body Glazed tiles (600mmx 600 mm) superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over ¾" 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.

2 x 125 x 12.0  
2 x 135 x 12.0  
3 x 19 x 36.0  
2 x 78 x 12.0  
3 x 49 x 12.0  
2 x 89 x 36.0

= 3000 Sft  
= 3240 Sft  
= 2052 Sft  
= 1872 Sft  
= 1764 Sft  
= 6408 Sft  
Total = 18336 Sft  
@ 302.25 %Sft Rs5,542,056



- 9 Providing and laying Full body Glazed tiles (600mm x 600 mm) superb quality Porcelain glazed tiles of Master brand, skirting / dado of specified size, Color and Shade with adhesive / bond over 1/2" thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

|              |   |     |   |     |   |               |              |                    |
|--------------|---|-----|---|-----|---|---------------|--------------|--------------------|
| 1            | x | 189 | x | 5.0 | = | 945           | Sft          |                    |
| 2            | x | 180 | x | 5.0 | = | 1800          | Sft          |                    |
| 4            | x | 55  | x | 5.0 | = | 1100          | Sft          |                    |
| 4            | x | 78  | x | 5.0 | = | 1560          | Sft          |                    |
| 4            | x | 68  | x | 5.0 | = | 1360          | Sft          |                    |
| 1            | x | 39  | x | 5.0 | = | 195           | Sft          |                    |
| 6            | x | 49  | x | 5.0 | = | 1470          | Sft          |                    |
| 2            | x | 89  | x | 5.0 | = | 890           | Sft          |                    |
| <b>Total</b> |   |     |   |     | = | <b>9320</b>   | <b>Sft</b>   |                    |
|              |   |     |   |     | @ | <b>302.25</b> | <b>P.Sft</b> | <b>Rs2,816,970</b> |

- 10 Providing and laying Half body Tile Non-Skid Chequered Tiles (300mm x 300mm) superb quality Porcelain glazed tiles of Master brand, skirting / dado of specified size, Color and Shade with adhesive / bond over 1/2" thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.

|              |   |    |   |      |   |               |              |                  |
|--------------|---|----|---|------|---|---------------|--------------|------------------|
| 1            | x | 24 | x | 12.0 | = | 288           | Sft          |                  |
| 1            | x | 32 | x | 14.0 | = | 448           | Sft          |                  |
| 1            | x | 26 | x | 10.0 | = | 260           | Sft          |                  |
| <b>Total</b> |   |    |   |      | = | <b>996</b>    | <b>Sft</b>   |                  |
|              |   |    |   |      | @ | <b>190.50</b> | <b>P.Sft</b> | <b>Rs189,738</b> |

- 11 Providing and laying Antistatic Antibacterial Vinyl flooring with fixing on floor i/c carriage of material from market to site of work complete in all respect as approved by the Engineer Incharge.

|                |   |       |   |       |   |               |              |                  |
|----------------|---|-------|---|-------|---|---------------|--------------|------------------|
| 2              | x | 19.25 | x | 18.75 | = | 722           | Sft          |                  |
| 2              | x | 9     | x | 12    | = | 216           | Sft          |                  |
| 1              | x | 19    | x | 18    | = | 342           | Sft          |                  |
| 2              | x | 15.25 | x | 14    | = | 427           | Sft          |                  |
| 1              | x | 14    | x | 18    | = | 252           | Sft          |                  |
| <b>Total:-</b> |   |       |   |       | = | <b>1959</b>   | <b>Sft</b>   |                  |
|                |   |       |   |       | @ | <b>320.00</b> | <b>P.Sft</b> | <b>Rs626,840</b> |

- 12 Cement plaster 1:4 upto 20' (6.00 m) height:-1/2" (13 mm) thick After Removing.

|                |   |       |   |      |   |                |             |                 |
|----------------|---|-------|---|------|---|----------------|-------------|-----------------|
| 1              | x | 45    | x | 4    | = | 180            | Sft         |                 |
| 1              | x | 85    | x | 2.5  | = | 213            | Sft         |                 |
| 6              | x | 12    | x | 4    | = | 288            | Sft         |                 |
| 4              | x | 20    | x | 3    | = | 240            | Sft         |                 |
| 1              | x | 35    | x | 2    | = | 70             | Sft         |                 |
| 4              | x | 39.25 | x | 2.75 | = | 432            | Sft         |                 |
| 2              | x | 48    | x | 1.25 | = | 120            | Sft         |                 |
| 2              | x | 65.75 | x | 2.5  | = | 329            | Sft         |                 |
| 2              | x | 75    | x | 4    | = | 600            | Sft         |                 |
| 1              | x | 28    | x | 2.5  | = | 70             | Sft         |                 |
| 1              | x | 16.5  | x | 3.5  | = | 58             | Sft         |                 |
| <b>Total:-</b> |   |       |   |      | = | <b>2599</b>    | <b>Sft</b>  |                 |
|                |   |       |   |      | @ | <b>2934.70</b> | <b>%Sft</b> | <b>Rs76,266</b> |

- 13 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 after scraping.

|                |   |     |   |    |   |                |             |                  |
|----------------|---|-----|---|----|---|----------------|-------------|------------------|
| 2              | x | 185 | x | 16 | = | 5920           | Sft         |                  |
| 2              | x | 225 | x | 16 | = | 7200           | Sft         |                  |
| 3              | x | 95  | x | 16 | = | 4560           | Sft         |                  |
| 2              | x | 198 | x | 16 | = | 6336           | Sft         |                  |
| 3              | x | 160 | x | 16 | = | 7680           | Sft         |                  |
| 2              | x | 78  | x | 16 | = | 2496           | Sft         |                  |
| 1              | x | 133 | x | 16 | = | 2128           | Sft         |                  |
| <b>Total:-</b> |   |     |   |    | = | <b>36320</b>   | <b>Sft</b>  |                  |
|                |   |     |   |    | @ | <b>1929.05</b> | <b>%Sft</b> | <b>Rs700,631</b> |

- 14 Dismantling brick or flagged flooring without concrete foundation.

|   |   |     |   |     |   |       |     |  |
|---|---|-----|---|-----|---|-------|-----|--|
| 1 | x | 185 | x | 70  | = | 12950 | Sft |  |
| 1 | x | 85  | x | 2.5 | = | 213   | Sft |  |
| 1 | x | 12  | x | 4   | = | 48    | Sft |  |





Total:- = 13211 Sft  
@ 700.15 %Sft Rs92,493

- 15 Providing and fixing false ceiling (6 mm thick) comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/3'x3' of specified design and thickness i/c cost of fixtures i.e galvanized angle 1"x1" at wall sides, galvanized tee 1 1/4"x1" and 1 1/2"x1" both at 4' c/c (made of Taiwan CK Mor equivalent), hanging with G.I / Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge.

|         |   |    |   |    |   |       |       |
|---------|---|----|---|----|---|-------|-------|
| 1       | x | 24 | x | 19 | = | 456   | Sft   |
| 2       | x | 19 | x | 17 | = | 646   | Sft   |
| 2       | x | 22 | x | 19 | = | 836   | Sft   |
| Total:- |   |    |   |    | = | 1938  | Sft   |
|         |   |    |   |    | @ | 73.00 | P.Sft |

Rs141,474

- 16 Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1 1/2" x 4") and leaf frame of 60x40mm (2 1/2"x1 1/2") wide sections including the cost of 1/4" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.

|         |   |     |   |   |   |        |       |
|---------|---|-----|---|---|---|--------|-------|
| 12      | x | 3.5 | x | 7 | = | 294    | Sft   |
| 7       | x | 4   | x | 7 | = | 196    | Sft   |
| 5       | x | 3   | x | 7 | = | 105    | Sft   |
| Total:- |   |     |   |   | = | 595    | Sft   |
|         |   |     |   |   | @ | 716.50 | P.Sft |

Rs426,318

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

|   |   |    |         |    |         |       |
|---|---|----|---------|----|---------|-------|
| 2 | x | 26 | =       | 52 | Rft     |       |
| 2 | x | 22 | =       | 44 | Rft     |       |
| 2 | x | 12 | =       | 24 | Rft     |       |
|   |   |    | Total:- | =  | 120     | Rft   |
|   |   |    |         | @  | 1775.10 | P.Rft |

Rs213,012

- 18 Providing and fixing False Ceiling (DAMPA) Sheet 2'x2' imported fixed with aluminum frame (TEE&L) hanged with 10 No wire with RCC Roof Slab including cost of hook complete in all respect as approved by the Engineer Incharge.

|         |   |    |   |      |   |        |       |
|---------|---|----|---|------|---|--------|-------|
| 4       | x | 22 | x | 14.0 | = | 1232   | Sft   |
| 3       | x | 24 | x | 18.0 | = | 1296   | Sft   |
| 4       | x | 28 | x | 19.0 | = | 2128   | Sft   |
| 4       | x | 18 | x | 14.0 | = | 1008   | Sft   |
| 2       | x | 14 | x | 12.0 | = | 336    | Sft   |
| 1       | x | 13 | x | 11.0 | = | 143    | Sft   |
| Total:- |   |    |   |      | = | 6143   | Sft   |
|         |   |    |   |      | @ | 160.00 | P.Sft |

Rs982,880

- 19 Providing and fixing 1 1/2" (40mm) thick solid flushdoor comprising of 2.5mm thick Ash Ply with Groves with router compressed over 2.5mm thick commercial ply over 1" thick packing wood in style and Rails under proper pressure i/c cost of nails,tower bolt,handle,glue, sawing charges and laquer polishing to show the grain of Ash Ply properly,sand papering and 3/8" thick ash wood lipping as approved and Directed by the Engineer Incharge.

|         |   |     |   |   |   |        |       |
|---------|---|-----|---|---|---|--------|-------|
| 6       | x | 3.5 | x | 7 | = | 147    | Sft   |
| 8       | x | 4   | x | 7 | = | 224    | Sft   |
| 6       | x | 2.5 | x | 7 | = | 105    | Sft   |
| 2       | x | 4   | x | 8 | = | 64     | Sft   |
| Total:- |   |     |   |   | = | 540    | Sft   |
|         |   |     |   |   | @ | 575.00 | P.Sft |

Rs310,500

- 20 Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x3/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., i/c Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1-1/2"x1/2" and 1.6 mm thick with rubber gasket i/c cost of Hardwares as approved by the Engineer in-charge.



|         |   |   |   |   |   |         |       |             |
|---------|---|---|---|---|---|---------|-------|-------------|
| 18      | x | 5 | x | 6 | = | 540     | Sft   |             |
| 8       | x | 4 | x | 6 | = | 192     | Sft   |             |
| 10      | x | 4 | x | 3 | = | 120     | Sft   |             |
| Total:- |   |   |   |   | = | 852     | Sft   |             |
|         |   |   |   |   | @ | 1294.85 | P.Sft | Rs1,103,212 |

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

|         |   |   |   |   |   |        |       |           |
|---------|---|---|---|---|---|--------|-------|-----------|
| 18      | x | 5 | x | 6 | = | 540    | Sft   |           |
| 8       | x | 4 | x | 6 | = | 192    | Sft   |           |
| 10      | x | 4 | x | 3 | = | 120    | Sft   |           |
| Total:- |   |   |   |   | = | 852    | Sft   |           |
|         |   |   |   |   | @ | 411.00 | P.Sft | Rs350,172 |

- 22 Providing and fixing PVC panelling etc complete in all respect.

|         |   |    |   |    |   |    |   |        |       |           |
|---------|---|----|---|----|---|----|---|--------|-------|-----------|
| 2       | ( | 12 | + | 14 | ) | 12 | = | 624    | Sft   |           |
| 2       | ( | 16 | + | 18 | ) | 12 | = | 816    | Sft   |           |
| 2       | ( | 21 | + | 14 | ) | 12 | = | 840    | Sft   |           |
| 2       | ( | 10 | + | 12 | ) | 12 | = | 528    | Sft   |           |
| Total:- |   |    |   |    |   |    | = | 2808   | Sft   |           |
|         |   |    |   |    |   |    | @ | 140.00 | P.Sft | Rs393,120 |

- 23 Providing and fixing lead lining 2mm thick lead sheet with wall for radiation protection upto roof height as per instruction and covering with MDF board 3/4" thick paneling including frame of kail wood 1-1/2" x 2" including termite proofing and fancy deodar wood beading complete in all respect as approved by the Engineer Incharge. Also Approved by the Radiation Protecting Agency.

|            |   |   |       |   |        |        |       |     |             |
|------------|---|---|-------|---|--------|--------|-------|-----|-------------|
| X-Ray Room | 1 | x | 15.75 | x | 18.875 | =      | 297   | Sft |             |
|            | 2 | x | 15.75 | x | 12     | =      | 378   | Sft |             |
|            | 2 | x | 18.88 | x | 16     | =      | 604   | Sft |             |
| Dark Room  | 1 | x | 9.25  | x | 9.125  | =      | 84    | Sft |             |
|            | 2 | x | 9.25  | x | 12     | =      | 222   | Sft |             |
|            | 2 | x | 9.25  | x | 9      | =      | 167   | Sft |             |
| Store      | 2 | x | 18    | x | 16     | =      | 576   | Sft |             |
|            | 2 | x | 12    | x | 13     | =      | 312   | Sft |             |
| Total:-    |   |   |       |   | =      | 2640   | Sft   |     |             |
|            |   |   |       |   | @      | 950.00 | P.Sft |     | Rs2,508,178 |

- 24 Providing and fixing automatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.

|         |   |    |   |         |      |          |
|---------|---|----|---|---------|------|----------|
| 1       | x | 14 | = | 14      | No.  |          |
| Total:- |   |    | = | 14      | No.. |          |
|         |   |    | @ | 2641.55 | Each | Rs36,982 |

- 25 P/F fancy LED light 2' x 2' including LED light and driver 36-W philips / ALPHA / ULTRA SLIM or equivalent including in false ceiling and electric connection complete in all respects as approved by the Engineer Incharge.

|         |   |    |   |         |      |           |
|---------|---|----|---|---------|------|-----------|
| 2       | x | 44 | = | 88      | No.  |           |
| Total:- |   |    | = | 88      | No.  |           |
|         |   |    | @ | 9500.00 | Each | Rs836,000 |

- 26 Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- a)PVC insulated, PVC sheathed twin core, 250/440 volts. 7/1.63 mm (7/0.064")

|         |   |     |   |        |       |          |
|---------|---|-----|---|--------|-------|----------|
| 2       | x | 320 | = | 640    | Rft   |          |
| Total:- |   |     | = | 640    | Rft   |          |
|         |   |     | @ | 141.05 | P.Rft | Rs90,272 |

- 27 Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG. 19/2.11 mm (19/0.083")

|         |   |     |   |         |       |             |
|---------|---|-----|---|---------|-------|-------------|
| 2       | x | 194 | = | 388     | Rft   |             |
| Total:- |   |     | = | 388     | Rft   |             |
|         |   |     | @ | 2627.35 | P.Rft | Rs1,019,412 |

- 28 Provision of Electric Installation as per pinth area rates complete in all respect.

|         |  |  |   |        |       |             |
|---------|--|--|---|--------|-------|-------------|
| Total:- |  |  | = | 19550  | Sft   |             |
|         |  |  | @ | 146.00 | P.Rft | Rs2,854,300 |

- 29 Provision of plumbing Installation as per pinth area rates complete in all respect.

|         |  |  |   |       |     |  |
|---------|--|--|---|-------|-----|--|
| Total:- |  |  | = | 19550 | Sft |  |
|         |  |  | = | 19550 | Sft |  |



30 Provision of Gas Installation as per pinth area rates complete in all respect.

@ 110.00 P.Rft Rs2,150,500

= 19550 Sft

Total:- = 19550 Sft

@ 47.00 P.Rft Rs918,850

31 Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.

1 x 185 x 70  
2 x 85 x 2.5  
2 x 12 x 4  
2 x 12 x 5  
2 x 12 x 4

= 12950 Sft

= 425 Sft

= 96 Sft

= 120 Sft

= 96 Sft

Total:- = 13687 Sft

@ 9577.85 %Sft Rs1,310,920

Total: = Rs26,787,823

**Recovery of old materials**

Tiles (9"x4.5"x1.5") 13211 x 0.4 x 3.5

Tiles bats 13211 x 0.6 x 0.125

= 18495 Nos

@ 4500.00 %0Nos Rs83,226

= 991 Cft

@ 2200.00 %Cft Rs21,797


D/d Total: = Rs105,023

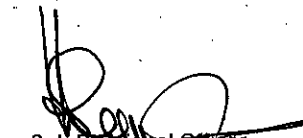
Net Total: = Rs26,682,800

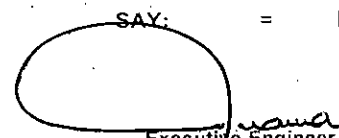
Add 03% Contingency = Rs800,483.99

Net Total: = Rs27,483,284

SAY: = Rs27,483,000

  
Sub Engineer

  
Sub Divisional Officer,  
Buildings Sub Division No. 2  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan



# DETAILED ESTIMATE FOR REVAMPING OF TOILET BLOCK

1st Bi Annual 2022

## 1 Dismantling glazed or encaustic tiles, etc.

BATH 1 x 5 x 6.0  
1 x 22 x 6.0

= 30 Sft  
= 132 Sft  
Total = 162 Sft  
@ 1932.50 %Sft Rs3,130.7

## 2 Dismantling cement concrete 1:2:4 Plain.

Bath 1 x 5 x 6.00 x 0.125

= 4 Cft  
Total = 4 Cft  
@ 9060.50 %Cft Rs362.4

## 3 Dismantling mud concrete.

Bath 1 x 5 x 6.00 x 0.33

= 10 Cft  
Total = 10 Cft  
@ 1647.35 %Cft Rs164.7

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

Bath 1 x 5 x 6.00 x 0.33

= 10 Cft  
Total = 10 Cft  
@ 5161.30 %Cft Rs516.1

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

BATH 1 x 5 x 6.00 x 0.17

= 5 Cft  
Total = 5 Cft  
@ 28918.55 %Cft Rs1,445.9

## 6 Providing and laying superb quality Ceramic tile (12"x18") floors of Master brand of specified size, Glossy / Mat t/ Texture of approved Color and Shade as per approved design with adhesive bond, over ¾" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.

BATH 1 x 5 x 6.00

= 30 Sft  
Total = 30 Sft  
@ 202.70 P.Sft Rs6,081.0

## 7 Providing and laying superb quality Ceramic tiles dado (12"x18") of Master brand of specified size, Glossy / Matt/ Texture skirting / dado of approved Color and Shade with adhesive bond over ½" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.

BATH 1 x 22 x 5.00

= 110 Sft  
Total = 110 Sft  
@ 209.65 P.Sft Rs23,061.5

## 8 Cement plaster 1:4 upto 20' (6.00 m) height: ½" (13 mm) thick After Removing.

1 x 15 x 2  
1 x 13 x 2.5  
1 x 22 x 3

= 30 Sft  
= 33 Sft  
= 66 Sft  
Total:- = 129 Sft  
@ 2934.70 %Sft Rs3,771.1

## 9 Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. coloured, with pedestal

= 1 Nos  
@ 3567.90 Each Rs3,568

## 10 Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. Coloured or White

= 2 Nos.  
@ 2379.65 Each Rs4,759

## 11 Providing and fixing chromium plated tee stop cock (½") dia

= 6 No.  
@ 646.20 Each Rs3,877

## 12 P/F C.P bib-cock.

1/2" dia.

= 3 Nos.  
@ 466.20 Each Rs1,399

## 13 Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.coloured

= 2 Nos





14 Providing and fitting "P" trap:- 10 cm (4") glazed.

@ 2174.70 Each Rs4,349

= 4 Nos  
@ 218.35 Each Rs873

15 Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:-coloured

= 1 Nos  
@ 7020.75 Each Rs7,021

16 Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (1/2" ) dia.single way.

= 2 Nos.  
@ 466.20 Each Rs932

17 Providing laying cutting jointing testing and disinfecting G.I. pipe line in trenches with socket joints using G.I. pipes of B.S.S 1387-1967 complete in all respects with specials and valves Medium quality.  
ii) 1/2" dia

= 250 Rft  
@ 146.55 P.Rft Rs36,638


Total: = Rs101,950

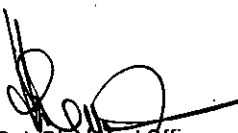
For 35-Nos Toilets = Rs3,568,247

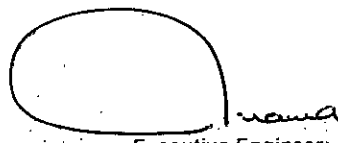
Add 03% Contingency = Rs107,047

Total Rs3,675,294

SAY: = Rs3,675,000

  
Sub Engineer

  
Sub Divisional Officer,  
Buildings Sub Division, no 2  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan

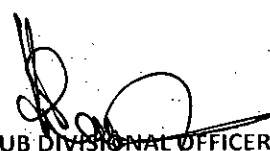



**RE-COSTRUCTION OF BOUNDARY WALL AT T.H.Q HOSPITAL  
SADIQ ABAD DISTRICT RAHIM YAR KHAN**

21

| Sr.No. | Description                               | Amount (Rs.)   |
|--------|---|----------------|
| 1      | RE-COSTRUCTION OF BOUNDARY WALL (150 Rft) | 522,759        |
| 2      | DISMANTLING OF BOUNDARY WALL              | 47,259         |
|        | <b>TOTAL (Rs.)</b>                        | <b>570,018</b> |
| 3      | RECOVERY OF OLD MATERIALS                 | 61,088         |
|        | <b>NET TOTAL (Rs.)</b>                    | <b>508,931</b> |
|        | Add 03% Contingeny                        | 15,268         |
|        | <b>TOTAL (Rs.)</b>                        | <b>524,199</b> |
|        | <b>G. TOTAL (Rs.)</b>                     | <b>524,000</b> |

  
SUB ENGINEER

  
SUB DIVISIONAL OFFICER  
BUILDINGS SUB DIVISION NO.1  
RAHIM YAR KHAN

  
EXECUTIVE ENGINEER  
BUILDINGS DIVISION  
RAHIM YAR KHAN



22

| S.N. | Description | No | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|

1 Dismantling brick work in lime or cement mortar.

|   |   |       |   |      |   |       |   |     |     |         |      |       |
|---|---|-------|---|------|---|-------|---|-----|-----|---------|------|-------|
| 1 | x | 50.00 | x | 1.13 | x | 4.00  | = | 225 | Cft |         |      |       |
| 1 | x | 50.00 | x | 0.75 | x | 6.00  | = | 225 | Cft |         |      |       |
|   |   |       |   |      |   | Total | = | 450 | Cft | 3500.65 | %Cft | 15753 |

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

|   |   |      |   |      |   |      |   |       |     |         |       |     |
|---|---|------|---|------|---|------|---|-------|-----|---------|-------|-----|
| 1 | x | 8.00 | x | 2.00 | x | 1.50 | = | 24.00 | Cft |         |       |     |
|   |   |      |   |      |   |      | = | 24.00 | Cft | 8727.65 | %oCft | 209 |

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

|   |   |      |   |      |   |      |   |   |     |         |          |
|---|---|------|---|------|---|------|---|---|-----|---------|----------|
| 1 | x | 8.00 | x | 2.00 | x | 0.50 | = | 8 | Cft |         |          |
|   |   |      |   |      |   |      | = | 8 | Cft | 4474.80 | %Cft 358 |

4. Pacca brick work in foundation and plinth in Ratio 1:6

|   |   |      |   |       |   |      |   |    |     |          |           |
|---|---|------|---|-------|---|------|---|----|-----|----------|-----------|
| 1 | x | 8.00 | x | 1.875 | x | 0.25 | = | 4  | Cft |          |           |
| 1 | x | 8.00 | x | 1.50  | x | 0.25 | = | 3  | Cft |          |           |
| 1 | x | 8.00 | x | 1.125 | x | 4.00 | = | 36 | Cft |          |           |
|   |   |      |   |       |   |      | = | 43 | Cft | 22942.20 | %Cft 9808 |

5 **Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating :-with two coats of bitumen**

|   |   |      |   |       |   |   |   |     |         |          |
|---|---|------|---|-------|---|---|---|-----|---------|----------|
| 1 | x | 8.00 | x | 1.125 | x | = | 9 | Sft |         |          |
|   |   |      |   |       |   | = | 9 | Sft | 6902.25 | %Sft 621 |

6 **Pacca brick work other than building upto 10ft. (3 m) height Cement sand Marter**  
**Ratio 1:6**

|   |   |      |   |       |   |      |   |    |     |                     |
|---|---|------|---|-------|---|------|---|----|-----|---------------------|
| 1 | x | 8.00 | x | 0.75  | x | 8.00 | = | 48 | Cft |                     |
| 1 | x | 0.75 | x | 0.375 | x | 8.00 | = | 2  | Cft |                     |
|   |   |      |   |       |   |      | = | 50 | Cft | 23829.35 %Cft 11974 |

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

|   |   |      |   |   |      |   |    |     |         |           |
|---|---|------|---|---|------|---|----|-----|---------|-----------|
| 1 | x | 5.75 | x | x | 8.00 | = | 46 | Sft |         |           |
|   |   |      |   |   |      | = | 46 | Sft | 2488.80 | %Sft 1145 |

8 Outer Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-ratio 1:2 including red oxide.

|   |   |      |   |   |      |   |     |    |         |          |
|---|---|------|---|---|------|---|-----|----|---------|----------|
| 1 | x | 8.75 | x | x | 8.00 | = | 70  | Sh |         |          |
| 2 | x | 8.00 | x | x | 2.00 | = | 32  | Sh |         |          |
|   |   |      |   |   |      | = | 102 | Sh | 3388.40 | %Sh 3456 |


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

[illegible]

|              |      |              |
|--------------|------|--------------|
| 28918.55     | %Cft | 309          |
| <b>TOTAL</b> |      | <b>27881</b> |

$$\frac{27881}{8} = 3485 \text{ / P.Rft}$$

  
Sub Engineer

  
Sub Divisional Officer,  
Buildings Sub Division No. 2  
Rahim Yar Khan

Executive Engineer  
Buildings Division  
Rahim Yar Khan




**ROUGH COST ESTIMATE FOR****DISMANTLING OF BOUNDARY WALL AT TILQ HOSPITAL SADIQ ABAD DISTRICT  
RAHIM YAR KHAN**

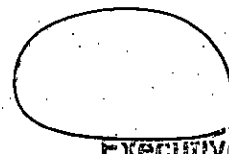
| S.N. | Description | No | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|

**1. Dismantling brick work in lime or cement mortar.**

|              |   |        |   |      |   |      |          |                |              |
|--------------|---|--------|---|------|---|------|----------|----------------|--------------|
| 1            | x | 150.00 | x | 1.13 | x | 4.00 | =        | 675            | Cft          |
| 1            | x | 150.00 | x | 0.75 | x | 6.00 | =        | 675            | Cft          |
| <b>Total</b> |   |        |   |      |   |      | <b>=</b> | <b>1350</b>    | <b>Cft</b>   |
|              |   |        |   |      |   |      |          | <b>3500.65</b> | <b>%Cft</b>  |
|              |   |        |   |      |   |      |          | <b>Total</b>   | <b>=</b>     |
|              |   |        |   |      |   |      |          |                | <b>47259</b> |



  
Sub Divisional Officer,  
Buildings Sub Division No.1,  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan





RECOVERY OF OLD MATERIALS

| S.N. | Description | No   | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|------|--------|--------|--------|----------|------|------------|--------------|
| 1    | Bricks      | 1350 | x      | 0.60   | x      | 13.50    | =    | 10935      | Nos          |
|      |             |      |        |        |        | Total    | =    | 10935      | Nos          |
|      |             |      |        |        |        |          |      | 4500.00    | %0Nos        |
|      |             |      |        |        |        |          |      |            | 49208        |
|      | Bricks Bats | 1350 | x      | 0.40   |        | =        | 540  | Cft        |              |
|      |             |      |        |        |        | Total    | =    | 540        | Cft          |
|      |             |      |        |        |        |          |      | 2200.00    | %Cft         |
|      |             |      |        |        |        |          |      | Total      | =            |
|      |             |      |        |        |        |          |      |            | 11880        |
|      |             |      |        |        |        |          |      |            | 61088        |

*[Handwritten signature]*

*[Handwritten signature]*  
Sub Divisional Officer,  
Buildings Sub Division No.1,  
Rahim Yar Khan

*[Handwritten signature]*  
Executive Engineer,  
Buildings Division  
Rahim Yar Khan



# DETAILED ESTIMATE FOR PROVISION OF WATER SUPPLY


1st Bi Annual 2022


| S.N. | Description  | No | Length    | Bredth | Height | Quantity     | Unit | Rate (Rs.) | Amount (Rs.) |
|------|--|----|-----------|--------|--------|--------------|------|------------|--------------|
| 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 2030.00 | x 1.00 | x 2.00 | = 4060       | Cft  |            |              |
|      |  |    |           |        |        | Total = 4060 | Cft  | 6204.00    | %0Cft 25188  |
| 2    | Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressure rating PN (PRESSURENOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned). PN-20 pipe |    |           |        |        |              |      |            |              |
|      | 25mm   | 1  | x 1300.00 |        |        | = 1300       | Rft  |            |              |
|      |  |    |           |        |        | Total = 1300 | Rft  | 53.55      | P.Rft 69615  |
|      | 32mm   | 1  | x 600.00  |        |        | = 600        | Rft  |            |              |
|      |  |    |           |        |        | Total = 600  | Rft  | 85.80      | P.Rft 51480  |
| 3    | Providing, laying, testing and commissioning of POLYTHLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressure rating PN (PRESSURENOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned). PN-20 pipe    |    |           |        |        |              |      |            |              |
|      | 50mm   | 1  | x 740.00  |        |        | = 740        | Rft  |            |              |
|      |  |    |           |        |        | Total = 740  | Rft  | 740.00     | P.Rft 547600 |
|      | 90mm   | 1  | x 1290.00 |        |        | = 1290       | Rft  |            |              |
|      |  |    |           |        |        | Total = 1290 | Rft  | 217.95     | P.Rft 281156 |
| 3    | Providing and fixing chromium plated bib cock:-  |    |           |        |        |              |      |            |              |
|      |  | 1  | x 22.00   |        |        | = 22         | Nos  |            |              |
|      |  |    |           |        |        | Total = 22   | Nos  | 466.20     | Each 10256   |
| 4    | Providing and fixing chromium plated tee stop cock 15mm (1/2").  |    |           |        |        |              |      |            |              |
|      |  | 1  | x 42.00   |        |        | = 42         | Nos  |            |              |
|      |  |    |           |        |        | Total = 42   | Nos  | 641.35     | Each 26937   |
| 5    | Providing and fixing gun metal peet/gate valve (screwed):-30 mm (1 1/4") dia   |    |           |        |        |              |      |            |              |
|      |  | 1  | x 22.00   |        |        | = 22         | Nos  |            |              |
|      |  |    |           |        |        | Total = 22   | Nos  | 4431.30    | Each 97489   |
| 6    | Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or   |    |           |        |        |              |      |            |              |
|      |  | 1  | x 32.00   |        |        | = 32         | Nos  |            |              |
|      |  |    |           |        |        | Total = 32   | Nos  | 1977.75    | Each 63288   |
| 7    | Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal  |    |           |        |        |              |      |            |              |
|      |  | 1  | x 12.00   |        |        | = 12         | Nos  |            |              |
|      |  |    |           |        |        | Total = 12   | Nos  | 3567.90    | Each 42815   |
| 8    | Service connection   |    |           |        |        |              |      |            |              |
|      |  | 1  | x 10.00   |        |        | = 10         | Nos  |            |              |
|      |  |    |           |        |        | Total = 10   | Nos  | 2227.50    | Each 22275   |
|      |  |    |           |        |        |              |      | TOTAL      | 1238098      |

Add 03% Contingency 37143

SAY 1275200

  
Sub Engineer

  
Sub Divisional Officer  
Buildings Sub Division No.2  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan



PROVISION OF SEWERAGE SYSTEM

1st Bi Annual 2022

| S.N. | Description | No | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|

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

|       |   |        |   |      |   |      |   |      |     |         |       |       |
|-------|---|--------|---|------|---|------|---|------|-----|---------|-------|-------|
| 1     | x | 250.00 | x | 2.00 | x | 4.00 | = | 2000 | Cft |         |       |       |
| 1     | x | 600.00 | x | 2.00 | x | 4.00 | = | 4800 | Cft |         |       |       |
| Total |   |        |   |      |   |      | = | 6800 | Cft | 7272.55 | %0Cft | 49453 |

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

|   |   |        |  |  |  |  |   |     |     |        |       |        |
|---|---|--------|--|--|--|--|---|-----|-----|--------|-------|--------|
| 1 | x | 250.00 |  |  |  |  | = | 250 | Rft |        |       |        |
|   |   |        |  |  |  |  | = | 250 | Rft | 637.05 | P.Rft | 159263 |

- Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d

|   |   |        |   |     |     |        |              |
|---|---|--------|---|-----|-----|--------|--------------|
| 1 | x | 600.00 | = | 600 | Rft |        |              |
|   |   |        | = | 600 | Rft | 436.70 | P.Rft 262020 |

- Rehandling of earthwork:Lead upto a single throw of Kassi, phaorah or shovel

|       |   |      |  |  |  |  |   |      |     |         |       |      |
|-------|---|------|--|--|--|--|---|------|-----|---------|-------|------|
| 6800  | x | 0.67 |  |  |  |  | = | 4533 | Cft |         |       |      |
| Total |   |      |  |  |  |  | = | 4533 | Cft | 2059.20 | %0Cft | 9335 |


- Construction of manhole


|       |   |       |  |  |  |  |   |    |     |          |      |        |
|-------|---|-------|--|--|--|--|---|----|-----|----------|------|--------|
| 1     | x | 20.00 |  |  |  |  | = | 20 | Nos |          |      |        |
| Total |   |       |  |  |  |  | = | 20 | Nos | 30000.00 | Each | 600000 |

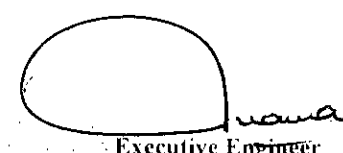
TOTAL 1080071

Add 03% Contingency 32402

SAY 1112500

  
Sub Engineer

  
Sub Divisional Officer  
Buildings Sub Divison No.1  
Rahim Yar Khan

  
Executive Engineer  
Buildings Divison  
Rahim Yar Khan



# DETAILED ESTIMATE FOR TUFF PAVEMENT

1st Bi Annual 2022

- 1 Pacca brick work other than building upto 10ft. (3 m) height Cement sand  
Marter Ratio 1:6

|       |   |       |   |       |   |      |   |      |     |
|-------|---|-------|---|-------|---|------|---|------|-----|
| 4     | x | 60.00 | x | 1.13  | x | 1.00 | = | 270  | Cft |
| 4     | x | 95.00 | x | 1.125 | x | 1.00 | = | 428  | Cft |
| 4     | x | 78.00 | x | 1.13  | x | 1.00 | = | 351  | Cft |
| 4     | x | 69.00 | x | 1.125 | x | 1.00 | = | 311  | Cft |
| Total |   |       |   |       |   |      | = | 1359 | Cft |

@ 23829.65 %Cft Rs323,844.9

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

|       |   |    |   |       |   |      |   |       |     |
|-------|---|----|---|-------|---|------|---|-------|-----|
| 2     | x | 60 | x | 90.00 | x | 0.33 | = | 3564  | Cft |
| 2     | x | 85 | x | 60.00 | x | 0.33 | = | 3366  | Cft |
| 2     | x | 78 | x | 70.00 | x | 0.33 | = | 3604  | Cft |
| 2     | x | 69 | x | 58.50 | x | 0.33 | = | 2664  | Cft |
| Total |   |    |   |       |   |      | = | 13198 | Cft |

@ 5161.30 %Cft Rs681,188.4

- 3 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. 60-mm thick

|       |   |    |   |       |   |       |     |
|-------|---|----|---|-------|---|-------|-----|
| 2     | x | 60 | x | 90.00 | = | 10800 | Sft |
| 2     | x | 85 | x | 60.00 | = | 10200 | Sft |
| 2     | x | 78 | x | 70.00 | = | 10920 | Sft |
| 2     | x | 69 | x | 58.50 | = | 8073  | Sft |
| Total |   |    |   |       | = | 39993 | Sft |

@ 127.40 P.Sft Rs5,095,108.2

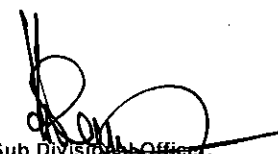
Total: = Rs6,100,142

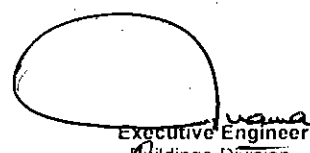
Add 03% Contingency Rs183,004

Total Rs6,283,146

Total: = Rs6,283,000

  
Sub Engineer

  
Sub Division Officer  
Buildings Sub Division No 2  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan





## Provision of Electrification of 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.

|              |   |     |   |   |   |      |   |                |              |
|--------------|---|-----|---|---|---|------|---|----------------|--------------|
| 2            | x | 270 | x | 1 | x | 1.50 | = | 810            | Cft          |
| 2            | x | 340 | x | 1 | x | 1.50 | = | 1020           | Cft          |
| <b>Total</b> |   |     |   |   |   |      | = | <b>1830</b>    | <b>Cft</b>   |
|              |   |     |   |   |   |      | @ | <b>5755.20</b> | <b>%0Cft</b> |

**Rs. 10532/-**

2 Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-

|              |   |   |     |   |              |              |
|--------------|---|---|-----|---|--------------|--------------|
| 32 mm        | 2 | x | 270 | = | 540          | Rft          |
|              | 2 | x | 340 | = | 680          | Rft          |
| <b>Total</b> |   |   |     | = | <b>1220</b>  | <b>Rft</b>   |
|              |   |   |     | @ | <b>57.85</b> | <b>P.Rft</b> |

**Rs. 70577/-**

3 Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):- (7/0.036")

|              |   |   |   |   |     |   |              |              |
|--------------|---|---|---|---|-----|---|--------------|--------------|
| 32 mm        | 2 | x | 2 | x | 270 | = | 1080         | Rft          |
|              | 2 | x | 2 | x | 340 | = | 1360         | Rft          |
| <b>Total</b> |   |   |   |   |     | = | <b>2440</b>  | <b>Rft</b>   |
|              |   |   |   |   |     | @ | <b>25.60</b> | <b>P.Rft</b> |

**Rs. 62464/-**

Providing and fixing Sub Panel Board of required size almirah with necessary fitting complete with circuit breaker copper bus bar Amp Meter, Volt Meter complete in all respect detail as below:  
INCOMING

1. 100-125 Amp TP MCCB (Terasaki) 1 No
  2. 15-20 Amp SP MCB (Terasaki) 3 Nos
  3. 6 Amp SP MCB (Terasaki) 8 Nos
  4. Ampare meter 0-500 Amp. (imported) 3 No
  5. Volt meter 0-200 Amp. (imported) 3 No
  6. Phase Indication Light 3 No
  7. Copper Cable Thimble Selves and other wiring material 1 Set
  8. Current Transformer 500 Amp 3 No
  9. MS Sheet Box Almirah Cubical Powder coated paint 14 SWG i/c Bus bars & bnecessary fitting and locking arrangement size 18"x30" 1 No
- complete in all respect as approved by the Engineer Incharge.  
Payment will be made subject to certification of Main Importer / Agent of Terasaki Circuit Breaker

|              |   |                 |             |
|--------------|---|-----------------|-------------|
| 1            | = | 2               | No.         |
| <b>Total</b> | = | <b>2</b>        | <b>No.</b>  |
|              | @ | <b>55000.00</b> | <b>Each</b> |

**Rs. 110000/-**

5 Providing and fixing street light poles of 4" dia 12' long, 3" dia 6'-2" long, 2" dia 6'-2" long, 1-1/4" dia 6'-2" long G.I. Pipe with CC 1:2:4 foundation 12"x12"x12" i/c base plate 2-nos 1/2" thick 12"x12" i/c PVC pipe, i/c PVC pipe & necessary cable i/c welding, molding and painting with silver paint. i/c Philips LED street light (model BRP 130 & 100-W) complete in all respect.

|              |   |                 |             |
|--------------|---|-----------------|-------------|
|              | = | 22              | No.         |
| <b>Total</b> | = | <b>22</b>       | <b>No.</b>  |
|              | @ | <b>64673.00</b> | <b>Each</b> |

**Rs. 1422806/-**

6 Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- 7/1.63 mm (7/0.064")

|              |   |               |              |
|--------------|---|---------------|--------------|
| 280          | = | 280           | Rft          |
| <b>Total</b> | = | <b>280</b>    | <b>Rft</b>   |
|              | @ | <b>272.40</b> | <b>P.Rft</b> |

**Rs. 76272/-**

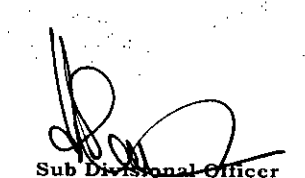
**Total Rs. 1752651/-**

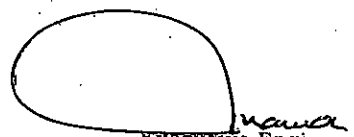
**Add 03% Contingency Rs. 52580/-**

**Total Rs. 1805231/-**

**Say Rs. 1805000/-**

  
Sub Engineer

  
Sub Divisional Officer  
Buildings Sub Division No.2  
Rahim yar Khan

  
Executive Engineer  
Buildings Division  
Rahim yar Khan




**AMENDED ROUGH COST ESTIMATE FOR INSTALLATION OF WATER FILTRATION PLANT (REVERSE OSMOSIS) IN THQ  
HOSPITALS AT TEHSIL HEADQUARTER HOSPITAL SADIQABAD DISTRICT RAHIM YAR KHAN.**


**ABSTRACT OF COST**


| Sr.<br>No. | Description of Items   | Plinth Area /<br>Quantity |     | Rates |     |     |     | Total (Rs.)    | Unit   | Amount (Rs.)     | Remarks                                     |
|------------|--|---------------------------|-----|-------|-----|-----|-----|----------------|--------|------------------|---|
|            |  |                           |     | B.P.  | P.H | E.I | S.G |                |        |                  |   |
| 1          | Construction of Filter Plant Room(14'X12') With 7' Verandah  | 364                       | Sft | 2585  | 110 | 145 |     | 2840           | P. Sft | 1,033,760        | Plinth Area Rates for<br>1st Bi-Annual 2022 |
| 2          | Providing and laying Full body Glazed tiles (600mmx 600 mm) 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. (302.25-154.99+55.95=203)   | 266                       | Sft |       |     |     |     | 203            | P.Sft  | 54,054           | -- do --                                    |
| 3          | Providing and laying Full body Glazed tiles (600mmx 600 mm) superb quality Porcelain glazed tiles of Master brand, skirting / dado of specified size,Color and Shade with adhesive / bond over 1/2" thick(1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. (302.25-154.56=148)  | 437                       | Sft |       |     |     |     | 148            | P.Sft  | 64,541           | -- do --                                    |
|            |  |                           |     |       |     |     |     | <b>TOTAL A</b> |        | <b>1,152,354</b> |   |
| 1          | Supplying ,installing,testing and commissioning Reverse Osmosis (RO) Plant for Turbidity, TDS (upto 5000 ppm) and Bacteriological Removal, of 1000 litter/Hour capacity including Carriage loading unloading charges, inclusive of all Taxes and Transportation charges to the site of work, conforming to standard specifications of water filtration plants approved by HUD & PHED Govt. of Punjab. The Detailed of Specification along with following equipment and accessories properly mounted in the Frame/Skid. are given as below. | 1                         | Job |       |     |     |     | 1853500        | P. Job | 1,853,500        | Detail attached                             |
| 2          | Providing and hoisting vertical / horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethylene of approved manufacturer i/c cost of making connection for inlet / outlet pipe,float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.   | 1000                      | Gln |       |     |     |     | 92.90          | P.Gln  | 92,900           |   |



|             |   |           |     |  |  |  |  |  |           |           |                 |  |
|-------------|---|-----------|-----|--|--|--|--|--|-----------|-----------|-----------------|--|
| 3           | Provision of boring lowering etc complete.    | 1         | Job |  |  |  |  |  | P.Job     | 91,000    | Detail attached |  |
|             |   |           |     |  |  |  |  |  | TOTAL B   | 2,037,400 |                 |  |
|             |   |           |     |  |  |  |  |  | TOTAL A+B | 3,189,754 |                 |  |
| a)          | Add 10 % for External Development work on Rs. | 1,033,760 | /-  |  |  |  |  |  |           |           | 103,376         |  |
| TOTAL:-     |   |           |     |  |  |  |  |  |           | 3,293,130 |                 |  |
| ADD 5% PRA  |   |           |     |  |  |  |  |  |           | 164,657   |                 |  |
| ADD 03% PRA |   |           |     |  |  |  |  |  |           | 98,794    |                 |  |
|             | TOTAL:-                                       |           |     |  |  |  |  |  |           | 3,457,787 |                 |  |
| SAY (RS):-  |   |           |     |  |  |  |  |  |           | 3,458,000 |                 |  |
| OR (RS):-   |   |           |     |  |  |  |  |  |           | 3.458 (M) |                 |  |

  
Sub Engineer

  
Sub Divisional Officer  
Buildings Sub Division No.1  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan



## **WATER FILTRATION PLANT** **(REVERSE OSMOSIS)**

| <b>Treated Water Capacity 1000 litter/Hour</b>  |   |
|---|---|
| <b>Type "RO" Plants for TDS and Bacteriological Removal</b>   |   |
| <b>Supplying ,installing,testing and commissioning Reverse Osmosis (RO) Plant for Turbidity, TDS (upto 5000 ppm) and Bacteriological Removal, of 1000 litter/Hour capacity including Carriage loading unloading charges, inclusive of all Taxes and Transportation charges to the site of work, conforming to standard specifications of water filtration plants approved by HUD &amp; PHED Govt: of Punjab. The Detailed of Specification along with following equipment and accessories properly mounted in the Frame/Skid. are given as below.</b> |   |
| Filtration units  | 1 Unit  |
| Filter Vessel   | 1 Unit  |
| Material  | FRP   |
| Size  | 4" x 40" (1-No.)  |
| Thickness   | 5-7 mm  |
| Type of Membrane (No of bores)  | Multiple bore   |
| Maximum Flow Rate   | 1000 litter/Hour  |
| Membrane Material   | PES   |
| Make  | Applied membranes/Equivalent/USA/ATS ASPRIN                     |
| Origin  | USA / ITALY /TAIWAN   |
| Membrane Working Pressure   | 40-150 PSI Max  |
| Membrane Life   | 5 Years   |
| Pore Size of Membrane   | 0.01 micron   |
| Bacterial Removal Efficiency of the Ultra filtration  | 99.99%  |
| Viruses Removal Efficiency of the Ultra filtration  | 99.99%  |
| Cleaning Process of Ultra filtration Plant  |   |
| Cleaning frequency  | Continuous  |
| Cleaning duration   | Continuous  |
| Working Temperature   | 77 °F to 140 °F   |
| Max   | 140 oF  |
| Working Pressure  | 60 PSI  |
| High Pressure Pump Coupled with Motor   |   |
| <b>Raw Water Feed Pump</b>  |   |
| Pump Manufacturer   | ITT/KSB/Grundfoss/Seimens, Aqua Treatment system USA/Haulin CNP |
| Pump Type   | horizontal / Multi stage  |
| Impeller material   | Stainless Steel/ Technopolymer/Equivalent                       |
| Housing material  | AISI 304/AISI 316/Equivalent                                    |
| Discharge   | 2 m <sup>3</sup> /hr  |
| Head  | 122 ft  |
| Pump efficiency   | 50%   |
| Motor   | Built in with pump  |
| Manufacturer  | ITT/KSB/Grundfoss/Seimens, Aqua Treatment system USA/Haulin CNP |
| Power rating, kw  | 0.75 KW to 0.90 KW  |
| Voltage rating  | 1x220V/50hz/2900RPM   |
| Starting current  | DOL 3 to 8 Times of Normal Current                              |
| Normal current  | 5.03  |
| NEMA Insulation Class   | F   |
| Temperature class   | Amb.+80 °C  |
| <b>Prefiltration:</b>   |   |
| Manufacturer  | Pentair /wave cyber / USA Or equivalent                         |
| Filter Vessel   | Pressure Vessel   |
| Material  | FRP   |
| Size  | 13" x 54"   |
| Thickness   | 5 mm  |
| Filter media, Material  | S 22-D Media  |
| Pore size   | 0.15 of grain size  |
| Size of Media   | 0.45 to 1mm   |
| Particle removal range  | Below 10 micron   |
| Cleaning Process  | Manual  |
| Working Temperature   | 1 to 50 °C  |







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|   |   |
|---|---|
| Working Pressure  | 2 bar   |
| <b>Jumbo filter 20" (5 Micron Cartridge)</b>                            | 2 No.   |
| <b>Activated Carbon Filter:</b>   |   |
| Manufacturer  | Pentair Water USA Or equivalent   |
| Filter Vessel   | Pressure Vessel   |
| Material  | FRP   |
| Size  | 13" x 54"   |
| Thickness   | 5 mm  |
| Base Material   | Coconut Shell   |
| Surface Area  | 800 m <sup>2</sup> /gm  |
| Bulk Density  | 5 gm / cm <sup>3</sup>  |
| Backwash  | Manual  |
| Ash Contents  | 5%  |
| <b>Jumbo filter 20" (1 Micron Cartridge)</b>                            | 2 No.   |
| <b>Antiscalant system</b>   | To prevent the chocking of R.O. membranes.  |
| <b>Hardness Removal:</b>  |   |
| Manufactures Type Designation   | Aqua Treatment System, USA  |
| Manufacturer  | Aqua Treatment System/Pentair Or equivalent   |
| Ion-exchanger Media   | Sulphmated polyester bea  |
| Regeneration Media  | NACL  |
| Frequency of Regeneration   | Depends on feed water   |
| Feed Water Requirement (at Prefiltration)                               | 1000 litter/Hour  |
| <b>Reverse Osmosis:</b>   |   |
| Manufactures Type Designation.  | USA/ ITALY  |
| Permeate Recovery   | 60.00%  |
| Design Temperature  | 25 C  |
| Salt Rejection Efficiency   | 90% to 98%  |
| Life of R.O Membrane  | 5 Years   |
| Membrane Dia  | 8" x 40" (1-No.).   |
| Blending Requirement  | Depends on site requirement)  |
| Dia of UPVC Pipe / Strainer in the Injection well                       | Feed 2 Waste Product  |
| Overall Size of RO Plant and the whole Plant                            | As per drawing / Manual   |
| Temperature Control, for High Ambient and Container Temperature.        | Max 105 °F  |
| Pump coupled with motor, (provide data as given                         | ITT/Goulds/Equivalent / Grounfos / Stairs   |
| Under other relevant item)  | Multistage centrifugal / pump with as per design  |
| CIP System  | Auto backwash system to clean the R.Omembranes before switch off the R.O. with permeates water to avoid the purging of salts on membranes   |
| <b>Feed Water Tank:</b>   | 2 Nos.  |
| Manufactures Type Designation/Origin                                    | Pakistan  |
| Manufacturer  | Polycon Supertuff / Mastertuff other  |
| Tank Capacity (Dimensions)  | 1000 litter/Hour  |
| Material Class  | Food Grade  |
| Tank Material   | HDPE /UPVC  |
| Thickness of Material   | Medium 3 to 4 mm  |
| Working Temperature   | -20 °C to 60 °C   |
| Working Pressure  | Atmospheric   |
| <b>Ancillary Items:</b>   |   |
| <b>Gages Flow Meter, TDS Meter Etc.</b>                                 | Italy/Taiwan /USA (checking of R.O. membranes Pressure and flow &TDS)   |
| <b>Ultra violet lamp.<br/>(Water Sterilization / Disinfection Unit)</b> | Italy/Taiwan /USA (The UV Sterilizer operates using a low pressure mercury vapor to produce the UV There are five major groups of micro organisms that are destroyed with Ultra Violet Sterilizer; viruses, bacteria, fungi, algae and protozoa.) |
| <b>Arsenic removal</b>  | Italy/Australia/USA. (Remove of iron & manganese arsenic.   |
| Manufacturer  | Pentair Water USA Or equivalent   |
| Filter Vessel   | Pressure Vessel   |
| Material  | FRP   |
| Size  | 16" x 65"   |
| Thickness   | 5 mm  |
| Base Material   | Coconut Shell   |
| Surface Area  | 800 m <sup>2</sup> /gm  |
| Bulk Density  | 5 gm / cm <sup>3</sup>  |
| Backwash  | Manual  |



|  |  |
|--|--|
| Ash Contents                                     | 5%   |
| <b>Digital Control Panel</b>                     | Assembled Box                                  |
| (Provide Make, Type and rating of the following) |  |
| • Cable Size                                     | 4 -6mm   |
| • Voltmeter                                      | on board                                       |
| • Ammeter  | on board                                       |
| • Indication Lamp                                | on board                                       |
| • Push Button                                    | on board                                       |
| • M C B  | on board                                       |
| • Bus Bar  | on board                                       |
| • Contaction                                     | on board                                       |
| <b>Monitoring System</b>                         | m2m CS WTP                                     |
| (The type of hardware for the following)         | Digital control valve                          |
| • Backwash of Prefiltration                      | On board                                       |
| • Backwash of Ultrafiltration                    | On board                                       |
| • Inlet (feed water) Flow - Liter/hour           | 1000 litter/Hour                               |
| <b>Pressure gauge</b>                            |  |
| (EU/China)                                       |  |
| • Manufacturer                                   | WIKA / Equivalent                              |
| • Pressure Range                                 | 125 PSI  |
| • Gauge Dia                                      | 4"   |
| <b>Pipe work</b>                                 |  |
| • Manufactures Type Designation/Origin           | Pakistan/ Taiwan/UAE                           |
| • Manufacturer                                   | New Tech / Dadex/ Beta or approved manufacture |
| • Pipe Material                                  | PP R / UPVC                                    |
| • Pipe dia                                       | 40mm (Min)                                     |
|  | 2 - 6 bar                                      |
| • Working Temperature                            | 0-60 °C  |
| <b>SKID</b>                                      | M.S. Powder coated                             |
| P/F brass stop cock/bib cock 1/2" dia.           | 5 No.  |
| Additional RO System                             | 1352900  |
| With holding Tax (Supply & Fixing) =7.5%         |  |
| General Sale Tax =17%                            | 229993   |
| Contractor Profit=20%                            | 270580   |
| Total Rs:  | 1853473  |
| <b>Say:</b>                                      | 1,853,500                                      |
| 1  | x 1853500                                      |

  
Sub Engineer

  
Sub Divisional Officer  
Buildings Sub Division No.1  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan



# ROUGH COST ESTIMATE FOR REVAMPING OF MAIN BUILDING

Removing door with chowkat.

= 16 Nos  
@ 295.15 Each Rs4,722  
~~331.65~~

Fixing door, including chowkats.

= 16 Nos  
@ 501.95 Each Rs8,031  
~~552.75~~

Dismantling glazed or encaustic tiles, etc.

1 x 125 x 12.0  
2 x 135 x 12.0  
4 x 19 x 36.0

= 1500 Sft  
= 3240 Sft  
= 2736 Sft

Total = 7476 Sft  
@ 1606.20 %Sft Rs120,080  
~~1768.80~~

Dismantling cement concrete 1:2:4 Plain.

1 x 125 x 12.0 x 0.125  
2 x 135 x 12.0 x 0.125  
4 x 19 x 36.0 x 0.125

= 188 Cft  
= 405 Cft  
= 342 Cft  
Total = 935 Cft  
@ 7817.55 %Cft Rs73,094  
~~8421.60~~

Dismantling mud concrete.

1 x 125 x 12.0 x 0.33  
2 x 135 x 12.0 x 0.33  
4 x 19 x 36.0 x 0.33

= 495 Cft  
= 1069 Cft  
= 903 Cft  
Total = 2467 Cft  
@ 1421.40 %Cft Rs35,066  
~~1531.20~~

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

1 x 125 x 12.0 x 0.33  
2 x 135 x 12.0 x 0.33  
4 x 19 x 36.0 x 0.33  
1 x 125 x 12.0 x 0.33  
1 x 178 x 12.0 x 0.33  
1 x 210 x 12.0 x 0.33  
2 x 110 x 12.0 x 0.33  
4 x 22 x 36.0 x 0.33

= 495 Cft  
= 1069 Cft  
= 903 Cft  
= 495 Cft  
= 705 Cft  
= 832 Cft  
= 871 Cft  
= 1045 Cft  
Total = 6415 Cft

@ 4585.25 %Cft Rs294,144  
~~4831.70~~

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

1 x 125 x 12.0 x 0.125  
2 x 135 x 12.0 x 0.125  
4 x 19 x 36.0 x 0.125  
2 x 110 x 12.0 x 0.125  
4 x 22 x 36.0 x 0.125

= 188 Cft  
= 405 Cft  
= 342 Cft  
= 330 Cft  
= 396 Cft

Total = 1661 Cft  
@ 22837.60 %Cft Rs379,333  
~~25119.60~~

Providing and laying of Porcelaine full body tiles 600-mm x 600-mm DWV Class SB Master or Equivilant. quality, Flooring (Diagonal shape / design) of approved Color and Shade laid over ¾" thick cement plaster 1:2 i/c white cement, pigment and sealer for finishing the joints i/c cutting grinding where necessary complete in all respects and as approved by the Engineer Incharge

2 x 125 x 12.0 = 3000 Sft  
2 x 135 x 12.0 = 3240 Sft



|   |   |    |   |      |
|---|---|----|---|------|
| 3 | x | 19 | x | 36.0 |
| 2 | x | 78 | x | 12.0 |
| 3 | x | 49 | x | 12.0 |
| 2 | x | 89 | x | 36.0 |

|       |        |           |
|-------|--------|-----------|
| =     | 2052   | Sft       |
| =     | 1872   | Sft       |
| =     | 1764   | Sft       |
| =     | 6408   | Sft       |
| Total | =      | 18336 Sft |
| @     | 266.00 | %Sft      |

~~Rs4,877,376~~

Providing and laying of Porceline full body tiles 600-mm x 600-mm DWV Class SB Master or Equilant quality, skirting/dado of approved Color and Shade laid over 1/2" thick cement plaster 1:2 i/c white cement, pigment and sealer for finishing the joints i/c cutting grinding where necessary complete in all respects and as approved by the Engineer Incharge

|   |   |     |   |      |
|---|---|-----|---|------|
| 1 | x | 189 | x | 6.05 |
| 2 | x | 180 | x | 6.05 |
| 4 | x | 55  | x | 6.05 |
| 4 | x | 78  | x | 6.05 |
| 4 | x | 68  | x | 6.05 |
| 1 | x | 39  | x | 6.05 |
| 6 | x | 49  | x | 6.05 |
| 2 | x | 89  | x | 6.05 |

|       |        |           |
|-------|--------|-----------|
| =     | 1134   | Sft       |
| =     | 2160   | Sft       |
| =     | 1320   | Sft       |
| =     | 1872   | Sft       |
| =     | 1632   | Sft       |
| =     | 234    | Sft       |
| =     | 1764   | Sft       |
| =     | 1068   | Sft       |
| Total | =      | 11184 Sft |
| @     | 266.00 | P.Sft     |

~~Rs2,974,944~~

Providing and laying of Non Skid Ceramic Tile made approved manufacture size 12" x 12" tile laid in white cement over bed of 3/4" thick cement plaster 1:2 i/c white cement, pigment and sealer for finishing the joints i/c cutting grinding where necessary complete in all respects and as approved by the Engineer Incharge.

|   |   |    |   |      |
|---|---|----|---|------|
| 1 | x | 24 | x | 12.0 |
| 1 | x | 32 | x | 14.0 |
| 1 | x | 26 | x | 10.0 |

|       |        |         |
|-------|--------|---------|
| =     | 288    | Sft     |
| =     | 448    | Sft     |
| =     | 260    | Sft     |
| Total | =      | 996 Sft |
| @     | 252.00 | P.Sft   |

~~Rs250,992~~

Providing and laying Antistatic Antibacterial Vinyl flooring with fixing on floor i/c carriage of material from market to site of work complete in all respect as approved by the Engineer Incharge.

|   |   |       |   |       |
|---|---|-------|---|-------|
| 2 | x | 19.25 | x | 18.75 |
| 2 | x | 9     | x | 12    |
| 1 | x | 19    | x | 18    |
| 2 | x | 15.25 | x | 14    |
| 1 | x | 14    | x | 18    |

|         |        |          |
|---------|--------|----------|
| =       | 722    | Sft      |
| =       | 216    | Sft      |
| =       | 342    | Sft      |
| =       | 427    | Sft      |
| =       | 252    | Sft      |
| Total:- | =      | 1959 Sft |
| @       | 611.00 | P.Sft    |

~~Rs1,196,873~~

Cement plaster 1:4 upto 20' (6.00 m) height:- 1/2" (13 mm) thick After Removing.

|   |   |       |   |      |
|---|---|-------|---|------|
| 1 | x | 45    | x | 4    |
| 1 | x | 85    | x | 2.5  |
| 6 | x | 12    | x | 4    |
| 4 | x | 20    | x | 3    |
| 1 | x | 35    | x | 2    |
| 4 | x | 39.25 | x | 2.75 |
| 2 | x | 48    | x | 1.25 |
| 2 | x | 65.75 | x | 2.5  |
| 2 | x | 75    | x | 4    |
| 1 | x | 28    | x | 2.5  |
| 1 | x | 16.5  | x | 3.5  |

|         |        |          |
|---------|--------|----------|
| =       | 180    | Sft      |
| =       | 213    | Sft      |
| =       | 288    | Sft      |
| =       | 240    | Sft      |
| =       | 70     | Sft      |
| =       | 432    | Sft      |
| =       | 120    | Sft      |
| =       | 329    | Sft      |
| =       | 600    | Sft      |
| =       | 70     | Sft      |
| =       | 58     | Sft      |
| Total:- | =      | 2599 Sft |
| @       | 262.75 | %Sft     |

2310.75 + 319

~~Rs62,454~~

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 after scraping.





|    |   |   |   |   |         |     |         |
|----|---|---|---|---|---------|-----|---------|
| 18 | x | 5 | x | 6 | =       | 540 | Sft     |
| 8  | x | 4 | x | 6 | =       | 192 | Sft     |
| 10 | x | 4 | x | 3 | =       | 120 | Sft     |
|    |   |   |   |   | Total:- | =   | 852 Sft |

~~1034 + 574 = 1608~~

498.50

@ ~~588.45~~ P.Sft

Rs499,655

13 Providing and fixing MS Grill to windows using 1/2" x 1/2" square bars @ 4" c/c vertically in 2- parts with 2-Nos horizontal locking for sliding of windows etc complete in all respect.

|    |   |   |   |   |   |     |     |
|----|---|---|---|---|---|-----|-----|
| 18 | x | 5 | x | 6 | = | 540 | Sft |
| 8  | x | 4 | x | 6 | = | 192 | Sft |
| 10 | x | 4 | x | 3 | = | 120 | Sft |

Total:- = 852 Sft

@ 462.00 P.Sft

Rs394,476

13 Providing and fixing PVC panelling etc complete in all respect.

|   |   |    |   |    |   |    |   |     |     |
|---|---|----|---|----|---|----|---|-----|-----|
| 2 | ( | 12 | + | 14 | ) | 12 | = | 624 | Sft |
| 2 | ( | 16 | + | 18 | ) | 12 | = | 816 | Sft |
| 2 | ( | 21 | + | 14 | ) | 12 | = | 840 | Sft |
| 2 | ( | 10 | + | 12 | ) | 12 | = | 528 | Sft |

Total:- = 2808 Sft

@ 140.00 P.Sft

Rs393,120

13 Providing and fixing lead lining 2mm thick lead sheet with wall for radiation protection upto roof height as per instruction and covering with MDF board 3/4" thick paneling including frame of kail wood 1- 1/2" x 2" including termite proofing and fancy deodar wood beading complete in all respect as approved by the Engineer Incharge. Also Approved by the Radiation Protecting Agency.

|            |   |   |       |   |        |   |     |     |
|------------|---|---|-------|---|--------|---|-----|-----|
| X-Ray Room | 1 | x | 15.75 | x | 18.875 | = | 297 | Sft |
|            | 2 | x | 15.75 | x | 12     | = | 378 | Sft |
|            | 2 | x | 18.88 | x | 16     | = | 604 | Sft |
| Dark Room  | 1 | x | 9.25  | x | 9.125  | = | 84  | Sft |
|            | 2 | x | 9.25  | x | 12     | = | 222 | Sft |
|            | 2 | x | 9.25  | x | 9      | = | 167 | Sft |
| Store      | 2 | x | 18    | x | 16     | = | 576 | Sft |
|            | 2 | x | 12    | x | 13     | = | 312 | Sft |

Total:- = 2640 Sft

@ 950.00 P.Sft

2508000  
Rs2,560,982

11 P/F Hydraulic Door Closer best quality made including cost of nail and screws etc complete in all respects as approved by the Engineer Incharge.

|   |   |    |   |    |     |
|---|---|----|---|----|-----|
| 1 | x | 14 | = | 14 | No. |
|---|---|----|---|----|-----|

Total:- = 14 No.

@ 2500.00 Each

Rs35,000

12 P/F fancy LED light 2' x 2' including LED light and driver 36W philips / ALPHA / ULTRA SLIM or equivalent including in false ceiling and electric connection complete in all respects as approved by the Engineer Incharge.

|   |   |    |   |    |     |
|---|---|----|---|----|-----|
| 2 | x | 44 | = | 88 | No. |
|---|---|----|---|----|-----|

Total:- = 88 No.

@ 10920.00 Each

Rs960,960

12 Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- a)PVC insulated, PVC sheathed twin core, 250/440 volts. 7/1.63 mm (7/0.064")

|   |   |     |   |     |     |
|---|---|-----|---|-----|-----|
| 2 | x | 320 | = | 640 | Rft |
|---|---|-----|---|-----|-----|

Total:- = 640 Rft

@ 139.55 P.Rft

Rs89,312

12 Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG. 19/2.11 mm (19/0.083")

|   |   |     |   |     |     |
|---|---|-----|---|-----|-----|
| 2 | x | 195 | = | 390 | Rft |
|---|---|-----|---|-----|-----|

Total:- = 390 Rft

@ 1425.45 P.Rft

Rs555,926

12 Provision of Electric Installation as per pinth area rates complete in all respect.



Wenther J. J. J.

37

|         |   |     |   |    |   |       |     |
|---------|---|-----|---|----|---|-------|-----|
| 2       | x | 185 | x | 16 | = | 5920  | Sft |
| 2       | x | 225 | x | 16 | = | 7200  | Sft |
| 3       | x | 95  | x | 16 | = | 4560  | Sft |
| 2       | x | 198 | x | 16 | = | 6336  | Sft |
| 3       | x | 160 | x | 16 | = | 7680  | Sft |
| 2       | x | 78  | x | 16 | = | 2496  | Sft |
| 1       | x | 133 | x | 16 | = | 2128  | Sft |
| Total:- |   |     |   |    | = | 36320 | Sft |

1039 + 57420

@ 3116.00 %Sft  
160820

Rs1,131,731

12 Dismantling brick or flagged flooring without concrete foundation.

|         |   |     |   |     |   |       |     |
|---------|---|-----|---|-----|---|-------|-----|
| 1       | x | 185 | x | 70  | = | 12950 | Sft |
| 1       | x | 85  | x | 2.5 | = | 213   | Sft |
| 1       | x | 12  | x | 4   | = | 48    | Sft |
| Total:- |   |     |   |     | = | 13211 | Sft |

@ 604.10 %Sft  
650.25

Rs79,805

12 P/F Gypsum board false ceiling

|         |   |    |   |    |   |      |     |
|---------|---|----|---|----|---|------|-----|
| 1       | x | 24 | x | 19 | = | 456  | Sft |
| 2       | x | 19 | x | 17 | = | 646  | Sft |
| 2       | x | 22 | x | 19 | = | 836  | Sft |
| Total:- |   |    |   |    | = | 1938 | Sft |

@ 95.00 P.Sft  
85

Rs184,110

12 Provision of Aluminium doors complete

|         |   |     |   |   |   |     |     |
|---------|---|-----|---|---|---|-----|-----|
| 12      | x | 3.5 | x | 7 | = | 294 | Sft |
| 7       | x | 4   | x | 7 | = | 196 | Sft |
| 5       | x | 3   | x | 7 | = | 105 | Sft |
| Total:- |   |     |   |   | = | 595 | Sft |

@ 568.55 P.Sft

Rs338,287

12 Providing and fixing Stain less steel pipe stair railing comprising of 1-No. 2" dia steel pipe 18 SWG Top rail, 2" dia steel pipe for vertical posts @ 2-ft c/c 2'-9" high, 3-Nos horizontal steel pipes 1/2" dia fixed on steps with 3" long steel screws and brass rawal plugs 3" long, i/c fixing carriage & polishing complete in all respects as approved by the Engineer Incharge.

|         |   |    |   |     |     |
|---------|---|----|---|-----|-----|
| 2       | x | 26 | = | 52  | Rft |
| 2       | x | 22 | = | 44  | Rft |
| 2       | x | 12 | = | 24  | Rft |
| Total:- |   |    | = | 120 | Rft |

@ 2200.00 P.Rft

Rs276,000

12 Providing and fixing False Ceiling (DAMP) Sheet 2'x2' imported fixed with aluminum frames (TEE&L) hanged with 10 No wire with RCC Roof Slab including cost of hook complete in all respect as approved by the Engineer Incharge.

|         |   |    |   |      |   |      |     |
|---------|---|----|---|------|---|------|-----|
| 4       | x | 22 | x | 14.0 | = | 1232 | Sft |
| 3       | x | 24 | x | 18.0 | = | 1296 | Sft |
| 4       | x | 28 | x | 19.0 | = | 2128 | Sft |
| 4       | x | 18 | x | 14.0 | = | 1008 | Sft |
| 2       | x | 14 | x | 12.0 | = | 336  | Sft |
| 1       | x | 13 | x | 11.0 | = | 143  | Sft |
| Total:- |   |    |   |      | = | 6143 | Sft |

@ 390.00 P.Sft  
85

Rs2,395,770

12 P/f solid flush doors 1 1/2" thick complete N.S

|         |   |     |   |   |   |     |     |
|---------|---|-----|---|---|---|-----|-----|
| 6       | x | 3.5 | x | 7 | = | 147 | Sft |
| 8       | x | 4   | x | 7 | = | 224 | Sft |
| 6       | x | 2.5 | x | 7 | = | 105 | Sft |
| 2       | x | 4   | x | 8 | = | 64  | Sft |
| Total:- |   |     |   |   | = | 540 | Sft |

@ 403.80 P.Sft

Rs218,052

13 Providing and fixing aluminum windows etc complete.

575



12 Provision of plumbing Installation as per pinth area rates complete in all respect.

|         |        |       |             |
|---------|--------|-------|-------------|
| =       | 19550  | Sft   |             |
| Total:- | =      | 19550 | Sft         |
| @       | 110.00 | P.Rft | Rs2,150,500 |

12 Provision of Gas Installation as per pinth area rates complete in all respect.

|         |       |       |             |
|---------|-------|-------|-------------|
| =       | 19550 | Sft   |             |
| Total:- | =     | 19550 | Sft         |
| @       | 78.00 | P.Rft | Rs1,524,900 |

12 Provision of Gas Installation as per pinth area rates complete in all respect.

|         |       |       |           |
|---------|-------|-------|-----------|
| =       | 19550 | Sft   |           |
| Total:- | =     | 19550 | Sft       |
| @       | 39.00 | P.Rft | Rs762,450 |

14 Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.

|   |   |     |   |     |
|---|---|-----|---|-----|
| 1 | x | 185 | x | 70  |
| 2 | x | 85  | x | 2.5 |
| 2 | x | 12  | x | 4   |
| 2 | x | 12  | x | 5   |
| 2 | x | 12  | x | 4   |

|   |       |     |
|---|-------|-----|
| = | 12950 | Sft |
| = | 425   | Sft |
| = | 96    | Sft |
| = | 120   | Sft |
| = | 96    | Sft |

Total:- = 13687 Sft

8077.2535 @ 7363.48 %Sft Rs1,007,829  
Total: = Rs25,835,973  
23140638

Recovery of old materials

Tiles (9"x4.5"x1.5") 13211 x 0.4 x 3.5

= 18495 Nos

@ 4000.00 %0Nos Rs73,979

Tiles bats 13211 x 0.6 x 0.125

= 991 Cft

@ 2000.00 %Cft Rs19,816

D/d Total: = Rs93,795


Net Total: = Rs25,742,178

Add 3 % Contingency = Rs772,265

G Total: = Rs26,514,444

Rs. 23738249/0

  
Sub Engineer

  
Sub Divisional Officer,  
Buildings Sub Division, no 2  
Rahim Yar Khan

52-P82



## ROUGH COST ESTIMATE FOR REVAMPING OF TOILET BLOCK

|   |   |   |    |   |              |   |               |
|---|---|---|----|---|--------------|---|---------------|
| Dismantling glazed or encaustic tiles, etc.   |   |   |    |   |              |   |               |
| BATH  | 1 | x | 5  | x | 6.0          | = | 30 Sft        |
|   | 1 | x | 22 | x | 6.0          | = | 132 Sft       |
| Total   |   |   |    |   |              | = | 162 Sft       |
|   |   |   |    |   |              | @ | 1606.20 %Sft  |
|   |   |   |    |   |              |   | 1768.80       |
| 2 Dismantling cement concrete 1:2:4 Plain.  |   |   |    |   |              |   |               |
| Bath  | 1 | x | 5  | x | 6.00 x 0.125 | = | 4 Cft         |
| Total   |   |   |    |   |              | = | 4 Cft         |
|   |   |   |    |   |              | @ | 7817.55 %Cft  |
|   |   |   |    |   |              |   | 8421.60       |
| Dismantling mud concrete.   |   |   |    |   |              |   |               |
| Bath  | 1 | x | 5  | x | 6.00 x 0.33  | = | 10 Cft        |
| Total   |   |   |    |   |              | = | 10 Cft        |
|   |   |   |    |   |              | @ | 1421.40 %Cft  |
|   |   |   |    |   |              |   | 1531.20       |
| Providing, laying, watering and ramming brick ballast 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects. |   |   |    |   |              |   |               |
| Bath  | 1 | x | 5  | x | 6.00 x 0.33  | = | 10 Cft        |
| Total   |   |   |    |   |              | = | 10 Cft        |
|   |   |   |    |   |              | @ | 4585.25 %Cft  |
|   |   |   |    |   |              |   | 4585.25       |
| Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4      |   |   |    |   |              |   |               |
| BATH  | 1 | x | 5  | x | 6.00 x 0.17  | = | 5 Cft         |
| Total   |   |   |    |   |              | = | 5 Cft         |
|   |   |   |    |   |              | @ | 22837.60 %Cft |
|   |   |   |    |   |              |   | 35119.60      |
| Laying floor of approved coloured glazed tiles (6 mm) thick, laid in white cement and pigment on a bed of ¾ (20 mm) thick cement mortar 1:2.                |   |   |    |   |              |   |               |
| BATH  | 1 | x | 5  | x | 6.00         | = | 30 Sft        |
| Total   |   |   |    |   |              | = | 30 Sft        |
|   |   |   |    |   |              | @ | 16996.70 %Sft |
|   |   |   |    |   |              |   | 192           |
| Coloured glazed tile dado (6" x 6" x ¾") (6mm) thick in pigment over 1:2 cement, sand mortar ¾" (20mm) thick, including finishing.                          |   |   |    |   |              |   |               |
| BATH  | 1 | x | 22 | x | 6.50         | = | 143 Sft       |
| Total   |   |   |    |   |              | = | 143 Sft       |
|   |   |   |    |   |              | @ | 18426.10 %Sft |
|   |   |   |    |   |              |   | 143           |
| Cement plaster 1:4 upto 20' (6.00 m) height: -½" (13 mm) thick After Removing.  |   |   |    |   |              |   |               |
|   | 1 | x | 15 | x | 2            | = | 30 Sft        |
|   | 1 | x | 13 | x | 2.5          | = | 33 Sft        |
|   | 1 | x | 22 | x | 3            | = | 66 Sft        |
| Total:-   |   |   |    |   |              | = | 129 Sft       |
|   |   |   |    |   |              | @ | 2403.25 %Sft  |
|   |   |   |    |   |              |   | 2623.15       |
| P/F glazed earthen ware W.H.B (22"x16") including bracket set, waste pipe and waste coupling etc.coloured with pedistal.                                    |   |   |    |   |              |   |               |
|   |   |   |    |   |              | = | 2 Nos         |
|   |   |   |    |   |              | @ | 2883.90 Each  |
|   |   |   |    |   |              |   | 2883.90       |
| P/F plastic made low down flushing sistern 3-gallon capacity, i/c bracket set, copper connention etc. Complete  |   |   |    |   |              |   |               |
|   |   |   |    |   |              | = | 2 Nos.        |
|   |   |   |    |   |              | @ | 1496.70 Each  |
|   |   |   |    |   |              |   | 1576.15       |
| Providing and fixing chromium plated tee stop cock (½") dia   |   |   |    |   |              |   |               |
|   |   |   |    |   |              | = | 6 No.         |
|   |   |   |    |   |              | @ | 459.30 Each   |
|   |   |   |    |   |              |   | 467.80        |
| P/F C.P bib-cock. 1/2" dia.   |   |   |    |   |              |   |               |
|   |   |   |    |   |              | = | 3 Nos.        |





13 Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest, coloured

14 P, trap glazed 4"

15 Providing and fitting glazed earthen ware water closet European type, excluding seat and cover: -coloured

16 Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (1/2") dia. single way.

17 Providing laying cutting jointing testing and disinfecting ~~G.I.~~ <sup>P.P.R.C</sup> pipe line in trenches with socket joints using G.I. pipes of B.S.S 1387-1967 complete in all respects with specials and valves Medium quality.

ii) 1/2" dia 25 mm

@ 339.30 Each Rs1,018

347.80

= 2 Nos

@ 1479.55 Each Rs2,959

1553.30

= 4 Nos

@ 151.70 Each Rs607

179.5

= 1 Nos

@ 2737.85 Each Rs2,738

1880.65

= 1 Nos.

@ 381.30 Each Rs381

381.80


= 250 Rft

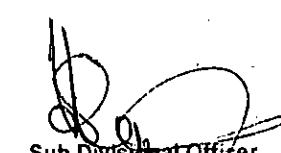
@ 402.55 P.Rft Rs25,638


Total: = Rs81,157

Add 3 % Contingency = Rs2,435

G.Total: = Rs83,602

  
Sub Engineer

  
Sub Divisional Officer,  
Buildings Sub Division, no 2  
Rahim Yar Kha:

  
71742/-



(41)

# RE-COSTRUCTION OF BOUNDARY WALL AT T.H.Q HOSPITAL SADIQ ABAD DISTRICT RAHIM YAR KHAN

| Sr.No. | Description                             | Amount (Rs.) |                    |
|--------|---|--------------|--------------------|
| 1      | RE-COSTRUCTION OF BOUNDARY WALL 150 Rft | 461311       | <del>453,710</del> |
| 2      | DISMANTLING OF BOUNDARY WALL            | 43926        | 40,775             |
|        | TOTAL (Rs.)                             | 505237       | <del>494,486</del> |
| 3      | RECOVERY OF OLD MATERIALS               |              | 54,540             |
|        | NET TOTAL (Rs.)                         | 450697       | 439,946            |
|        | Add 3 % Contingency                     | 13524        | 13,198             |
|        | G. TOTAL (Rs.)                          | 464218       | 453,144            |

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### ROUGH COST ESTIMATE FOR

**RE-COSTRUCTION OF BOUNDARY WALL AT T.H.Q HOSPITAL SADIQ ABAD DISTRICT  
RAHIM YAR KHAN**

### ABSTRACT OF COST

[illegible]



**ROUGH COST ESTIMATE FOR**  
**DISMANTLING OF BOUNDARY WALL AT T.H.Q HOSPITAL SADIQ ABAD DISTRICT**  
**RAHIM YAR KHAN**

| S.N. | Description | No | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|

1 Dismantling brick work in lime or cement mortar.

|       |   |        |   |      |   |      |   |      |              |
|-------|---|--------|---|------|---|------|---|------|--------------|
| 1     | x | 150.00 | x | 1.13 | x | 4.00 | = | 675  | Cft          |
| 1     | x | 150.00 | x | 0.75 | x | 6.00 | = | 675  | Cft          |
| Total |   |        |   |      |   |      | = | 1350 | Cft          |
|       |   |        |   |      |   |      |   |      | 3020.40 %Cft |
|       |   |        |   |      |   |      |   |      | 40775        |
| Total |   |        |   |      |   |      |   |      | = 40775      |

43926/-

Reca

Raw

Quana

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2


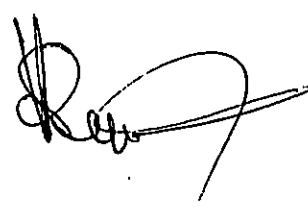
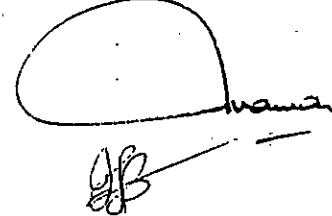
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2



RECOVERY OF OLD MATERIALS

| S.N. | Description | No   | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|------|--------|--------|--------|----------|------|------------|--------------|
| 1    | Bricks      |      |        |        |        |          |      |            |              |
|      |             | 1350 | x      | 0.60   | x      | 13.50    | =    | 10935      | Nos          |
|      |             |      |        |        |        | Total    | =    | 10935      | Nos          |
|      |             |      |        |        |        |          |      | 4000.00    | %0Nos        |
|      |             |      |        |        |        |          |      |            | 43740        |
|      | Bricks Bats |      |        |        |        |          |      |            |              |
|      |             | 1350 | x      | 0.40   |        | =        | 540  | Cft        |              |
|      |             |      |        |        |        | Total    | =    | 540        | Cft          |
|      |             |      |        |        |        |          |      | 2000.00    | %Cft         |
|      |             |      |        |        |        |          |      | Total      | =            |
|      |             |      |        |        |        |          |      |            | 10800        |
|      |             |      |        |        |        |          |      |            | 54540        |

100

100

100

# ROUGH COST ESTIMATE FOR INSTALLATION OF WATER FILTRATION PLANT (REVERSE OSMOSIS) IN DISTRICT COURTS COMPLEX RAHIM YAR KHAN

## ABSTRACT OF COST

| Sr. No. | Description of Items  | Plinth Area /<br>Quantity |     | Rates |     |     |     | Total (Rs.)           | Unit   | Amount (Rs.)                                    | Remarks                     |
|---------|---|---------------------------|-----|-------|-----|-----|-----|-----------------------|--------|---|-----------------------------|
|         |   |                           |     | B.P.  | P.H | E.I | S.G |                       |        |   |                             |
| 1       | Construction of Filter Plant Room(14'X12') With 7' Verandah   | 364                       | Sft | 2147  | 78  | 110 |     | 2335                  | P. Sft | 849,940   | Plinth Area Rates 2nd 2021. |
| 2       | Providing and laying Full Body Porcelain Polish Tile (Light Colour) 16"x16"x $\frac{3}{8}$ " size (Stile, Master or equivalent) laid in white cement and matching pigment over $\frac{3}{4}$ " thick cement mortar 1:2 i/c filling joints with white cement and matching pigment complete in all respect. ( Dado / Skirting)<br><i>1X 16.25x5</i>   | <del>437</del><br>81      | Sft |       |     |     |     | <del>266</del><br>219 | P.Sft  | <del>116,242</del><br>17739                     | Analysis attached           |
| 3       | Providing and laying Full Body Porcelain Polish Tile (Light Colour) 16"x16"x $\frac{3}{8}$ " size (Stile, Master or equivalent) laid in white cement and matching pigment over $\frac{3}{4}$ " thick cement mortar 1:2 i/c filling joints with white cement and matching pigment complete in all respect. (for Floor)<br><i>1X 16.25x7</i>  | <del>266</del><br>114     | Sft |       |     |     |     | <del>219</del><br>266 | P.Sft  | <del>24966</del><br><del>70,756</del><br>892645 | Analysis attached           |
|         |   |                           |     |       |     |     |     | TOTAL A               |        | <del>1,036,938</del>                            |                             |
| 1       | Supplying ,installing,testing and commissioning Reverse Osmosis (RO) Plant for Tubidity, TDS (upto 5000 ppm) and Bacteriological Removal, of 1000 litter/Hour capacity including Carriage loading unloading charges, inclusive of all Taxes and Transportation charges to the site of work, conforming to standard specifications of water filtration plants approved by HUD & PHED Govt. of Punjab. The Detailed of Specification along with following equipment and accessories properly mounted in the Frame/Skid. are given as below. | 1                         | Job |       |     |     |     | 1853500               | P. JOB | 1,853,500                                       | Detail attached             |
| 2       | Provision of supper tuff water tank 1000 Gln I/c boring and pump  | 1                         | Job |       |     |     |     |                       | P.Job  | 141,000   | Detail attached             |
|         |   |                           |     |       |     |     |     | TOTAL B               |        | 1,994,500                                       |                             |
| 1       | <del>Operational and Maintenance charges 5 year</del>   |                           |     |       |     |     |     |                       |        | <del>1,892,425</del>                            |                             |
|         |   |                           |     |       |     |     |     | <del>TOTAL C</del>    |        | <del>1,892,425</del>                            |                             |

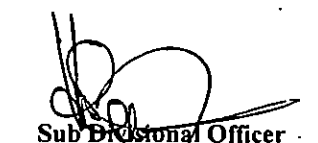



|  |  |  |  |  |  |  |  |  |             |            |           |
|--|--|--|--|--|--|--|--|--|-------------|------------|-----------|
|  |  |  |  |  |  |  |  |  | TOTAL A+B+C | 4,923,863  |           |
|  |  |  |  |  |  |  |  |  |             | TOTAL:-    | 4,923,863 |
|  |  |  |  |  |  |  |  |  |             | ADD 5% PRA | 246,193   |
|  |  |  |  |  |  |  |  |  |             | TOTAL:-    | 5,170,056 |
|  |  |  |  |  |  |  |  |  |             | SAY (RS):- | 5,170,000 |

3% on 5,170,000

2887145

  
Sub Engineer

  
Sub Divisional Officer  
Buildings Sub Division No.1  
Rahim Yar Khan

  
Executive Engineer  
Buildings Division  
Rahim Yar Khan





## **WATER FILTRATION PLANT** **(REVERSE OSMOSIS)**

**Treated Water Capacity 1000 litter/Hour**

**Type "RO" Plants for TDS and Bacteriological Removal**

Supplying ,installing,testing and commissioning Reverse Osmosis (RO) Plant for Turbidity, TDS (upto 5000 ppm) and Bacteriological Removal, of 1000 litter/Hour capacity including Carriage loading unloading charges, inclusive of all Taxes and Transportation charges to the site of work, conforming to standard specifications of water filtration plants approved by HUD & PHED Govt: of Punjab. The Detailed of Specification along with following equipment and accessories properly mounted in the Frame/Skid. are given as below.

|  |   |
|--|---|
| Filtration units                                     | 1 Unit  |
| Filter Vessel  | 1 Unit  |
| Material   | FRP   |
| Size   | 4" x 40" (1-No.)  |
| Thickness  | 5-7 mm  |
| Type of Membrane (No of bores)                       | Multiple bore   |
| Maximum Flow Rate                                    | 1000 litter/Hour  |
| Membrane Material                                    | PES   |
| Make   | Applied membranes/Equivalent/USA/ATS ASPRIN                     |
| Origin   | USA / ITALY /TAIWAN   |
| Membrane Working Pressure                            | 40-150 PSI Max  |
| Membrane Life  | 5 Years   |
| Pore Size of Membrane                                | 0.01 micron   |
| Bacterial Removal Efficiency of the Ultra filtration | 99.99%  |
| Viruses Removal Efficiency of the Ultra filtration   | 99.99%  |
| Cleaning Process of Ultra filtration Plant           |   |
| Cleaning frequency                                   | Continuous  |
| Cleaning duration                                    | Continuous  |
| Working Temperature                                  | 77 °F to 140 °F   |
| Max  | 140 oF  |
| Working Pressure                                     | 60 PSI  |
| High Pressure Pump Coupled with Motor                |   |
| <b>Raw Water Feed Pump</b>                           |   |
| Pump Manufacturer                                    | ITT/KSB/Grundfoss/Seimens, Aqua Treatment system USA/Haulin CNP |
| Pump Type  | horizontal / Multi stage  |
| Impeller material                                    | Stainless Steel/ Technopolymer/Equivalent                       |
| Housing material                                     | AISI 304/AISI 316/Equivalent                                    |
| Discharge  | 2 m <sup>3</sup> /hr  |
| Head   | 122 ft  |
| Pump efficiency                                      | 50%   |
| Motor  | Built in with pump  |
| Manufacturer   | ITT/KSB/Grundfoss/Seimens, Aqua Treatment system USA/Haulin CNP |
| Power rating, kw                                     | 0.75 KW to 0.90 KW  |
| Voltage rating                                       | 1x220V/50hz/2900RPM   |
| Starting current                                     | DOL 3 to 8 Times of Normal Current                              |
| Normal current                                       | 5.03  |
| NEMA Insulation Class                                | F   |
| Temperature class                                    | Amb.+80 °C  |
| <b>Prefiltration:</b>                                |   |
| Manufacturer   | Pentair /wave cyber / USA Or equivalent                         |
| Filter Vessel  | Pressure Vessel   |
| Material   | FRP   |
| Size   | 13" x 54"   |
| Thickness  | 5 mm  |
| Filter media, Material                               | S 22-D Media  |
| Pore size  | 0.15 of grain size  |
| Size of Media  | 0.45 to 1mm   |
| Particle removal range                               | Below 10 micron   |
| Cleaning Process                                     | Manual  |
| Working Temperature                                  | 1 to 50 °C  |

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|   |   |
|---|---|
| Working Pressure  | 2 bar   |
| <b>Jumbo filter 20" (5 Micron Cartridge)</b>                            | 2 No.   |
| <b>Activated Carbon Filter:</b>   |   |
| Manufacturer  | Pentair Water USA Or equivalent   |
| Filter Vessel   | Pressure Vessel   |
| Material  | FRP   |
| Size  | 13" x 54"   |
| Thickness   | 5 mm  |
| Base Material   | Coconut Shell   |
| Surface Area  | 800 m <sup>2</sup> /gm  |
| Bulk Density  | 5 gm / cm <sup>3</sup>  |
| Backwash  | Manual  |
| Ash-Contents  | 5%  |
| <b>Jumbo filter 20" (1 Micron Cartridge)</b>                            | 2 No.   |
| <b>Antiscalant system</b>   | To prevent the chocking of R.O. membranes.  |
| <b>Hardness Removal:</b>  |   |
| Manufactures Type Designation   | Aqua Treatment System, USA  |
| Manufacturer  | Aqua Treatment System/Pentair Or equivalent   |
| Ion-exchanger Media   | Sulphmated polyester bea  |
| Regeneration Media  | NACL  |
| Frequency of Regeneration   | Depends on feed water   |
| Feed Water Requirement (at Prefiltration)                               | 1000 litter/Hour  |
| <b>Reverse Osmosis:</b>   |   |
| Manufactures Type Designation.  | USA/ ITALY  |
| Permeate Recovery   | 60.00%  |
| Design Temperature  | 25 C  |
| Salt Rejection Efficiency   | 90% to 98%  |
| Life of R.O Membrane  | 5 Years   |
| Membrane Dia  | 8" x 40" (1-No.).   |
| Blending Requirement  | Depends on site requirement)  |
| Dia of UPVC Pipe / Strainer in the Injection well                       | Feed 2 Waste Product  |
| Overall Size of RO Plant and the whole Plant                            | As per drawing / Manual   |
| Temperature Control, for High Ambient and Container Temperature.        | Max 105 °F  |
| Pump coupled with motor, (provide data as given                         | ITT/Goulds/Equivalent / Grounfos / Stairs   |
| Under other relevant item)  | Multistage centrifugal / pump with as per design  |
| CIP System  | Auto backwash system to clean the R.Omembranes before switch off the R.O. with permeates water to avoid the purging of salts on membranes   |
| <b>Feed Water Tank:</b>   | 2 Nos.  |
| Manufactures Type Designation/Origin                                    | Pakistan  |
| Manufacturer  | Polycon Supertuff / Mastertuff other  |
| Tank Capacity (Dimensions)  | 1000 litter/Hour  |
| Material Class  | Food Grade  |
| Tank Material   | HDPE /UPVC  |
| Thickness of Material   | Medium 3 to 4 mm  |
| Working Temperature   | -20 °C to 60 °C   |
| Working Pressure  | Atmospheric   |
| <b>Ancillary Items:</b>   |   |
| <b>Gages Flow Meter, TDS Meter Etc.</b>                                 | Italy/Taiwan /USA (checking of R.O. membranes Pressure and flow &TDS)   |
| <b>Ultra violet lamp.<br/>(Water Sterilization / Disinfection Unit)</b> | Italy/Taiwan /USA (The UV Sterilizer operates using a low pressure mercury vapor to produce the UV There are five major groups of micro organisms that are destroyed with Ultra Violet Sterilizer; viruses, bacteria, fungi, algae and protozoa.) |
| <b>Arsenic removal</b>  | Italy/Australia/USA. (Remove of Iron & manganese arsenic.   |
| Manufacturer  | Pentair Water USA Or equivalent   |
| Filter Vessel   | Pressure Vessel   |
| Material  | FRP   |
| Size  | 16" x 65"   |
| Thickness   | 5 mm  |
| Base Material   | Coconut Shell   |
| Surface Area  | 800 m <sup>2</sup> /gm  |
| Bulk Density  | 5 gm / cm <sup>3</sup>  |
| Backwash  | Manual  |



|  |   |
|--|---|
| Ash Contents                                     | 5%  |
| Digital Control Panel                            | Assembled Box                                 |
| (Provide Make, Type and rating of the following) |   |
| • Cable Size                                     | 4 -6mm  |
| • Voltmeter                                      | on board                                      |
| • Ammeter  | on board                                      |
| • Indication Lamp                                | on board                                      |
| • Push Button                                    | on board                                      |
| • M C B  | on board                                      |
| • Bus Bar  | on board                                      |
| • Contaction                                     | on board                                      |
| Monitoring System                                | m2m CS WTP                                    |
| (The type of hardware for the following)         | Digital control valve                         |
| • Backwash of Prefiltration                      | On board                                      |
| • Backwash of Ultrafiltration                    | On board                                      |
| • Inlet (feed water) Flow - Liter/hour           | 1000 litter/Hour                              |
| Pressure gauge                                   |   |
| (EU/China)                                       |   |
| • Manufacturer                                   | WIKA / Equivalent                             |
| • Pressure Range                                 | 125 PSI                                       |
| • Gauge Dia                                      | 4"  |
| Pipe work  |   |
| • Manufactures Type Designation/Origin           | Pakistan/ Taiwan/J&E                          |
| • Manufacturer                                   | New Tec / Dadex/ Beta or approved manufacture |
| • Pipe Material                                  | PP R / UVC                                    |
| • Pipe dia                                       | 40mm (Min)                                    |
|  | 2 - 6 bar                                     |
| • Working Temperature                            | 0-60 °C                                       |
| SKID   | M.S. Powder coated                            |
| P/F brass stop cock/bib cock 1/2" dia.           | 5 No.   |
| Additional RO System                             | 1352900                                       |
| With holding Tax (Supply & Fixing) =7.5%         |   |
| General Sale Tax =17%                            | 229993  |
| Contractor Profit=20%                            | 270580  |
| Total Rs:  | 1853473                                       |
| Say:   | 1,853,500                                     |
| 1  | x 1853500                                     |

Sub Engineer

Sub Divisional Officer  
Building Division No.2  
Rahim Yar Khan

171

171

171

171

50

## ROUGH COST ESTIMATE FOR TUFF PAVEMENT

Pacca brick work other than building upto 10ft. (3 m) height Cement sand

|       |   |       |   |       |   |      |   |      |     |
|-------|---|-------|---|-------|---|------|---|------|-----|
| 4     | x | 50.00 | x | 1.13  | x | 1.00 | = | 225  | Cft |
| 4     | x | 95.00 | x | 1.125 | x | 1.00 | = | 428  | Cft |
| 4     | x | 78.00 | x | 1.13  | x | 1.00 | = | 351  | Cft |
| 4     | x | 69.00 | x | 1.125 | x | 1.00 | = | 311  | Cft |
| Total |   |       |   |       |   |      | = | 1314 | Cft |

@ 21013-50 %Cft Rs287,943.4

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

|       |   |    |   |       |   |      |   |      |     |
|-------|---|----|---|-------|---|------|---|------|-----|
| 2     | x | 50 | x | 70.00 | x | 0.33 | = | 2310 | Cft |
| 2     | x | 85 | x | 40.00 | x | 0.33 | = | 2244 | Cft |
| 2     | x | 78 | x | 70.00 | x | 0.33 | = | 3604 | Cft |
| 2     | x | 69 | x | 40.00 | x | 0.33 | = | 1822 | Cft |
| Total |   |    |   |       |   |      | = | 9980 | Cft |

4805-70 @ 4585-23 %Cft Rs457,608.0

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. 60-mm thick

|       |   |    |   |       |   |       |     |
|-------|---|----|---|-------|---|-------|-----|
| 2     | x | 65 | x | 70.00 | = | 9100  | Sft |
| 2     | x | 85 | x | 60.00 | = | 10200 | Sft |
| 2     | x | 78 | x | 70.00 | = | 10920 | Sft |
| 2     | x | 69 | x | 60.00 | = | 8280  | Sft |
| Total |   |    |   |       | = | 38500 | Sft |

112-55 @ 111-00 P.Sft Rs4,273,500.0

Total: = Rs5,019,051

51239181-

Sub Engineer

Sub Divisional Officer,  
Buildings Sub Division, no 2  
Rahim Yar Khan



SEWERAGE SYSTEM

| S.N. | Description | No | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|

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

|  |  |   |   |        |   |      |   |      |       |      |      |         |                     |
|--|--|---|---|--------|---|------|---|------|-------|------|------|---------|---------------------|
|  |  | 1 | x | 250.00 | x | 2.00 | x | 4.00 | =     | 2000 | Cft  |         |                     |
|  |  | 1 | x | 600.00 | x | 2.00 | x | 4.00 | =     | 4800 | Cft  | 6683.30 | 45446               |
|  |  |   |   |        |   |      |   |      | Total | =    | 6800 | Cft     | 5852.95 %0Cft 39800 |

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

|  |  |   |   |        |  |   |     |     |              |        |
|--|--|---|---|--------|--|---|-----|-----|--------------|--------|
|  |  | 1 | x | 250.00 |  | = | 250 | Rft | 54665        | 136663 |
|  |  |   |   |        |  | = | 250 | Rft | 159.55 P.Rft | 414838 |

- Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d

|  |  |   |   |        |  |   |     |     |              |        |
|--|--|---|---|--------|--|---|-----|-----|--------------|--------|
|  |  | 1 | x | 600.00 |  | = | 600 | Rft | 42760        | 256560 |
|  |  |   |   |        |  | = | 600 | Rft | 390.10 P.Rft | 234060 |

- Rehandling of earthwork:Lead upto a single throw of Kassi, phaorah or shovel

|  |  |      |   |      |  |       |      |      |      |                    |
|--|--|------|---|------|--|-------|------|------|------|--------------------|
|  |  | 6800 | x | 0.67 |  | =     | 4533 | Cft  | 1714 | 8677               |
|  |  |      |   |      |  | Total | =    | 4533 | Cft  | 1776.70 %0Cft 8054 |

- Construction of manhole

|  |  |   |   |       |  |       |    |     |       |                      |
|--|--|---|---|-------|--|-------|----|-----|-------|----------------------|
|  |  | 1 | x | 20.00 |  | =     | 20 | Nos |       |                      |
|  |  |   |   |       |  | Total | =  | 20  | Nos   | 30000.00 Each 600000 |
|  |  |   |   |       |  |       |    |     | TOTAL | 996802               |

1047346

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175

175

175

175



# WATER SUPPLY

| S.N. | Description | No | Length | Bredth | Height | Quantity | Unit | Rate (Rs.) | Amount (Rs.) |
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|
|------|-------------|----|--------|--------|--------|----------|------|------------|--------------|

- 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 1290.00 x 1.00 x 2.00 = 2580 Cft.  
Total = 2580 Cft. ~~5340.20~~ %Cft

14848  
13778

- 2 Providing, laying, testing and commissioning POLYPROPYLENE RANDOM COPOLYMER. (PPRC)(Dadex / Beta / BBJ) water supply pipe (PN20) i/c solvent and specials but excluding threaded specials complete

25mm 1 x 1300.00 = 1300 Rft.  
Total = 1300 Rft. 48 P.Rft 62322

32mm 1 x 1100.00 = 1100 Rft.  
Total = 1100 Rft. 76 P.Rft 83196

50mm 1 x 740.00 = 740 Rft.  
Total = 740 Rft. 185 P.Rft 136567

63mm 1 x 550.00 1290 = 550 Rft.  
Total = 550 Rft. 28 P.Rft 281156  
167434

- 3 Providing and fixing chromium plated bib cock:-

1 x 22.00 = 22 Nos.  
Total = 22 Nos. 339.30 Each 7465

- 4 Providing and fixing chromium plated bib cock:-Providing and fixing chromium plated tee stop cock 15mm (1/2").

1 x 42.00 = 42 Nos.  
Total = 42 Nos. 459.30 Each 19291

- 5 Providing and fixing gun metal peet/gate valve (screwed):-30 mm (1 1/4") dia

1 x 22.00 = 22 Nos.  
Total = 22 Nos. 924.70 Each 10223  
9943

- 6 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.

1 x 32.00 = 32 Nos.  
Total = 32 Nos. 1565.65 Each 50101

- 7 Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal

1 x 12.00 = 12 Nos.  
Total = 12 Nos. 2961.75 Each 35327  
32375

- 2 Service Connection with water meter and 10 Nos. 2227/50

TOTAL 572472  
22275  
= 575536

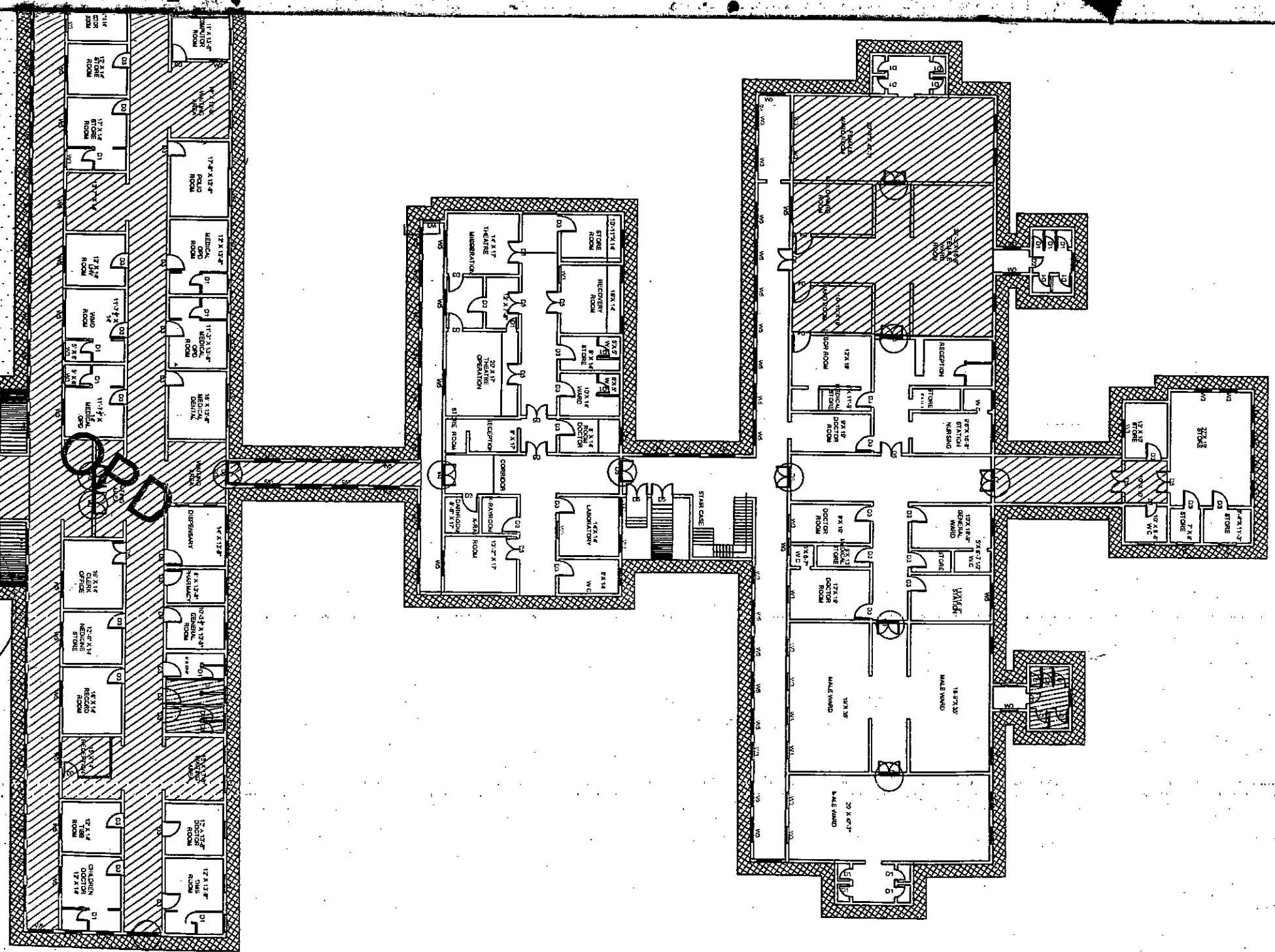
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Sub Divisional Office  
Building Sub Divisional  
Building No. 178

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

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

## 8. ANNUAL OPERATING COST (POST COMPLETION)

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

**Grant Number:**Government Buildings - (PC12042)  
**LO NO:**LO21010609  
**A/C To be Credited:**Account-I

PKR Million

| Sr #  | Object Code            | 2023-2024 |         | 2024-2025 |         | 2025-2026 |         | 2026-2027 |         | 2027-2028 |         |
|-------|------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
|       |                        | Local     | Foreign | Local     | Foreign | Local     | Foreign | Local     | Foreign | Local     | Foreign |
| 1     | A05270-To Others       | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |
| 2     | A12403-Other Buildings | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |
| Total |                        | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |

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

**Grant Number:**Government Buildings - (PC12042)  
**LO NO:**LO21010609  
**A/C To be Credited:**Account-I

PKR Million

| Sr #  | Object Code            | 2023-2024 |         | 2024-2025 |         | 2025-2026 |         | 2026-2027 |         | 2027-2028 |         |
|-------|------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
|       |                        | Local     | Foreign | Local     | Foreign | Local     | Foreign | Local     | Foreign | Local     | Foreign |
| 1     | A05270-To Others       | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |
| 2     | A12403-Other Buildings | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |
| Total |                        | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   | 0.000     | 0.000   |

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

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

## 10. 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 | 65.000  | 33.869  | 3.315   | 3.365   | 5.572   | 8.147   | 119.268 |
| Utilization    | 30.081  | 26.206  | 3.310   | 3.185   | 5.405   | 1.395   | 69.582  |

### **Capital Side:**

| Year           | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | Total  |
|----------------|---------|---------|---------|---------|---------|---------|--------|
| Funds Released | 0       | 0       | 0       | 0       | 41.548  | 7.801   | 49.349 |
| Utilization    | 0       | 0       | 0       | 0       | 41.548  | 0.000   | 41.548 |

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

## 10.4 WEIGHT COST OF CAPITAL INFORMATION

undefined

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

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

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

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

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

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

#### **Employment Generation (Director and Indirect)**

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

### **11.2 ENVIRONMENTAL IMPACT ANALYSIS**

#### **Environmental Impact**

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

### **11.3 PACT ANALYSIS**

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### **11.4 ECONOMIC ANALYSIS**

#### **Impact of Delays on Project Cost and Viability**

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

## 11.5 FINANCIAL ANALYSIS

### Financial Benefits & Analysis

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

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

The Human Development Index of Pakistan (HDI) will improve

Infant Mortality Rate will decrease

Mother Mortality rate will be decreased

The international commitments of Pakistan will be accomplished

Health standard of public will

Better Health Facilities to mother and

Prompt and scientific facility for operation

Rehabilitation of disables and injured

Blindness in this area will be decreased and controlled

Better social and mental health to addict

Provision of better health facilities at doorsteps

Awareness and control for communicable

Survival of heart failure

Social indicators of Pakistan will improve

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

#### 11.1.1 Financial Impact:

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

#### 11.2 Revenue Generation

Revenue will be generated from:

Indoor fee

Laboratory fees

Diagnostic facility fees

Dental fee

ECG fee

Private room charges

Ambulance charges

From other fees prescribed by Government

## 12. IMPLEMENTATION SCHEDULE

### 12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

#### Implementation Schedule

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

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

1st Revised gestation period till June, 2021

2nd Revised gestation period till June, 2023.

3rd Revised gestation period till June, 2025

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## **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<br>Qualitative Assessment |                    |                        | MITIGATION  |
|--------------|---|--|---|--|--------------------|------------------------|---|
| Risk Item No | Risk Description/Event  | Cause  | Effect / Consequences   | Likelihood<br>(1 to 3)                             | Impact<br>(1 to 3) | Risk Score<br>(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:<br>1. Project delays<br>2. Contractor claims<br>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<br>2. Performance of the Contractor has affected<br>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<br>2) Effect on quality as the Consultant supervision will not take place<br>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<br>2) Claim requests received by Contractor and Consultant   | 3  | 3                  | 9                      | Contractor will be asked to depute fully vaccinated labor   |

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### 13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

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

### 14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

NA

### 15. CERTIFICATE

**Focal Person Name:**Mr. Adeel Aslam

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

**Email:**

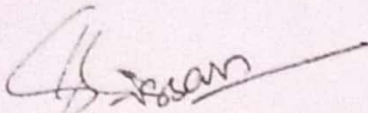
**Tel. No.:**

**Fax No:**

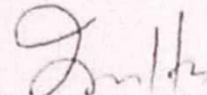
**Address:**31/E1, Shahrah-e-imam Hussain? Road? Block E 1 Gulberg III, Lahore, Punjab

15. It is certified that the project titled "Revamping of THQ Hospital Sadiqabad (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.

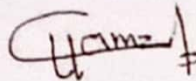
Prepared By:



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

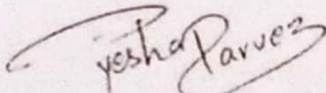


(RIZWAN SHOUKAT)  
PROCUREMENT SPECIALIST, (PMU),  
PRIMARY & SECONDARY HEALTHCARE  
DEPARTMENT, LAHORE  
(042-99231206)  
(Oct-2022)



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

Checked By:



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



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

Approved By:



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

## 17. RELATION WITH OTHER PROJECTS

## 20. MARGINALISATION OF PC-1

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

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