**Template for preparation of**

**Detailed Project Report (DPR)**

**on GreyWater Management (GWM)**

(This Template is only indicative of the minimum requirements in the structure of a DPR and so is not meant to guide in the basic formatting of the document, which is left to the discretion of the agency that prepares the document)

(TITLE OF THE PROJECT)

DETAILED PROJECT REPORT

ON

GREYWATER TREATMENT PLANT OF CAPACITY .…. (Capacity of plant) KLD

FOR

……… (specify GP/ BP) , ……………….(specify District)

TO BE SET UP AT (specify the location)

Prepared by

(Name & address of the Agency)

……..(month)..........(year)

**CONTENTS**

**Executive Summary**

**List of Abbreviations, tables, figures**

**Table of Contents**

| **Title**  |
| --- |
| * Introduction with the existing scenario
* Need of the project
* Scope of agency and Scope of Local Body
* Location of the project (include map and sketch)
* Site investigation details (Soil type with permeability, Groundwater table)
* Calculation of wastewater generation and capacity determination
* Tested wastewater characteristics of Influent Wastewater and expected final achievable Wastewater (pH, BOD, COD, TDS, TSS, etc.)
* Process Flow diagram for the proposed plant
* Description of the complete Treatment Process
* Reuse plans for sludge and treated water
* List of civil structures, mechanical and electrical (*refer sample format I*) with detailed specifications of all the components
* Detailed estimate for civil works including plumbing with detailed measurements in CPWD specification as per prevailing DSR (*refer sample format II*)
* Abstract Estimate with estimate report (*refer sample format III*)
* Estimate for electro-mechanical units, considering market rates
* Operations and maintenance (O&M) proposal
* Time schedule for project completion
* Certified A3 Plan of proposed GWTP showing setbacks from the boundary, Conveyance network, etc prepared as per prevailing building rules
* Detailed plan, section, and elevation drawings of individual tanks with clear dimensions
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**SAMPLE FORMAT I**

List of Civil Components

| **Components**  | **Size/Capacity**  | **Quantity/ Nos** | **Material** | **Effective** **volume/Capacity** |
| --- | --- | --- | --- | --- |
| Bar Screen  | 1.0 make x 0.6m x1.0m +1.20 m fb  | 1 No  | RCC  | 0.6 m3 |
| Grit Chamber | .........  | .........  | .........  | ......... |

List of Mechanical Components

| **Components**  | **Specification** | **Quantity/Nos.**  | **MOC**  | **Remark** |
| --- | --- | --- | --- | --- |
| Mechanical works |  |
|  Grey Water handling pump | 1 Hp | 2 nos  | ......... | ......... |
| .........  | .........  | .........  | ......... | ......... |

List of Piping, Fitting and Electrical Components

| **Components**  | **Specification** | **Quantity/Nos.**  | **MOC**  | **Remark** |
| --- | --- | --- | --- | --- |
| PIPING, FITTINGS & ELECTRICAL WORKS | .........  | As per requirement |
| Earthing | .........  | 1set | ......... | ......... |
| .........  | .........  | .........  | ......... | ......... |

**SAMPLE FORMAT II**

**Detailed Estimate in PRICE Software**

| **Sl** **No** | **Description**  | **No**  | **L**  | **B**  | **D**  | **CF**  | **Quantity**  | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1. Greywater Treatment Plant** |
| 1  | 2.8.1 Earthwork in excavation by mechanical(hydraulic excavator) / manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms, lift up to 1.5m,including getting out the excavated soil as directed within a lead of 50m. All kinds of soil. |
|  | Excavation | 1  | 9.65  | 4.10 | 3.350  |  | 132.543 | …. |
| 2 | …. | … | …. | … | …. | … | …. | …. |

**SAMPLE FORMAT III**

**Abstract Estimate**

| **ITEM**  | **Amount Rs** |
| --- | --- |
| MECHANICAL WORKS | Rs. ........................... |
| CIVIL WORKS | Rs. ........................... |
| ELECTRICAL WORKS | Rs. ........................... |
| ......... GRAND TOTAL  | ......... |