



**Multan Waste Management Company (MWMC)
Government of Punjab**

BIDDING DOCUMENT

(NATIONAL COMPETITIVE BIDDING)
Single Stage Two Envelope Bidding Procedure
Least Cost Selection Method

For
**OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES
(ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT
KHANEWAL**

(LOT# 1 TEHSIL KHANEWAL)
(LOT# 2 TEHSIL KABIRWALA)
(LOT# 3 TEHSIL JAHANIAN)
(LOT# 4 TEHSIL MIAN CHANNU)

(Rural & Urban Areas)

ISSUED ON: July 2024

Multan Waste Management Company (MWMC)

Local Government & Community Development, Department, Government of Punjab
Building No. 275/RB, Ward # XEX, Shamsabad Colony, Near Chungi No. 09, Multan Pakistan. Tel:
(+92)061-93301175



Preface

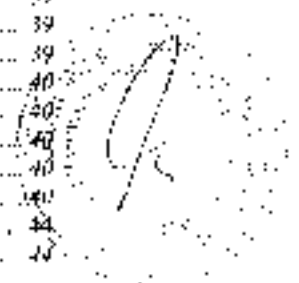
This Bidding document has been prepared by the Multan Waste Management Company (MWMC) which is based on the Standard Bidding Document issued & notified by the Punjab Procurement Regulatory Authority ("the Authority"), dated July, 2023.



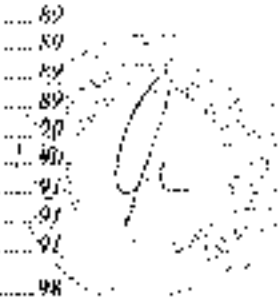
Table of Contents

Contents

PREFACE	2
SECTION-I	6
INVITATION TO BID	ERROR! BOOKMARK NOT DEFINED.
DISCLAIMER	9
DEFINITIONS	13
SECTION-II: INSTRUCTIONS TO BIDDERS (ITB)	15
2.1. INTRODUCTION	16
2.1.1 <i>Scope of Bid</i>	16
2.1.2 <i>Source of Funds</i>	16
2.1.3 <i>Eligible Bidders</i>	16
2.1.4 <i>Cost of Bidding</i>	19
2.1.5 <i>One person one bid</i>	19
2.1.6 <i>Work Plan/Deposition Plan</i>	20
2.2. THE BIDDING DOCUMENTS	20
2.2.1 <i>Content of Bidding Documents</i>	20
2.2.2 <i>Classification of Bidding Documents</i>	21
2.2.3 <i>Amendment of Bidding Documents</i>	22
2.3. PREPARATION OF BIDS	23
2.3.1 <i>Language of Bid</i>	24
2.3.2 <i>Bid Form</i>	25
2.3.2.1 <i>Technical Proposal</i>	25
2.3.2.2 <i>Financial Proposal</i>	25
2.3.3 <i>Bid Prices</i>	26
2.3.4 <i>Bid Currencies</i>	27
2.3.5 <i>Documents Establishing Bidder's Eligibility and Qualification</i>	27
2.3.6 <i>Bid Security</i>	28
2.3.7 <i>Period of Validity of Bids</i>	29
2.3.8 <i>Format and Signing of Bid</i>	29
2.3.9 <i>Minimum Wage rates/all applicable taxes</i>	29
2.4. SUBMISSION OF BIDS	29
2.4.1 <i>Sealing and Marking of Bids</i>	29
2.4.2 <i>Deadline for Submission of Bids</i>	31
2.4.3 <i>Late Bids</i>	31
2.4.4 <i>Modification and Withdrawal of Bids</i>	31
2.5. OPENING AND EVALUATION OF BIDS	32
2.5.1 <i>Opening of Bids by the Procuring Agency</i>	32
2.5.2 <i>Confidentiality</i>	34
2.5.3 <i>Classification of Bids</i>	34
2.5.4 <i>Preliminary Examination</i>	32
2.5.5 <i>Examination of Terms and Conditions: Technical Evaluation</i>	36
2.5.6 <i>Correction of Errors</i>	37
2.5.7 <i>Conversion to Single Currency</i>	37
2.5.8 <i>Pre-qualification & Evaluation of Bids</i>	37
2.5.9 <i>Contacting the Procuring Agency</i>	38
2.5.10 <i>Grievance Redressal</i>	38
2.6. AWARD OF CONTRACT	39
2.6.1 <i>Notification of Award</i>	39
2.6.2 <i>Performance Guarantee</i>	39
2.6.3 <i>Signing of Contract: Issuance of work Order</i>	39
2.6.4 <i>Award Criteria</i>	40
2.6.5 <i>Procuring Agency's Right to View Companies at Time of Award</i>	40
2.6.6 <i>Procuring Agency's Right to Accept or Reject All Bids</i>	40
2.6.7 <i>Re-Bidding</i>	40
2.6.8 <i>Concept of Fraudulent Practices</i>	40
2.6.9 INSURANCE POLICY	44
2.6.10 <i>Insurance and Indemnification</i>	44



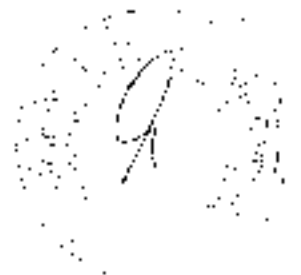
SECTION-III. TECHNICAL SPECIFICATIONS / TORs	46
SCOPE OF SERVICES	46
SECTION-IV BID DATA SHEET	51
4.1. BID DATA SHEET (BDS).....	52
NOTIFICATION OF AWARD	53
DRAFT CONTRACT	61
SECTION-V PART I-GENERAL CONDITIONS OF CONTRACT	63
1. DEFINITIONS	64
2. APPLICATION	66
3. COUNTRY OF ORIGIN	66
4. STANDARDS	66
5. USE OF CONTRACT DOCUMENTS AND INFORMATION; INSPECTION AND AUDIT BY THE PROCURING AGENCY	66
6. PERFORMANCE GUARANTEE	67
7. INCIDENTAL MATERIAL	67
8. COMMENCEMENT OF SERVICES.....	67
STARTING DATE - EFFECTIVE DATE OF COMMENCEMENT	67
9. TIME SCHEDULE OF SERVICES	68
10. PAYMENT	68
11. PRICES	68
12. CONTRACT PRICE.....	68
13. PRICE ESCALATION / DE-ESCALATION AND CHANGE IN THE APPLICABLE LAW	68
14. CHANGE ORDERS	68
15. CONTRACT AMENDMENTS	69
16. ASSIGNMENT	69
17. SUB CONTRACTS.....	69
18. DELAYS IN THE SERVICE PROVIDER'S PERFORMANCE	69
19. LIQUIDATED DAMAGES	69
20. TERMINATION FOR DEFAULT.....	70
21. FORCE MAJEURE	71
22. TERMINATION FOR INSOLVENCY	71
23. TERMINATION FOR CONVENIENCE.....	71
24. RESOLUTION OF DISPUTES.....	71
25. OPERATIVE LANGUAGE	71
26. APPLICABLE LAW	72
27. NOTICES	72
28. TAXES AND DUTIES	72
29. EXTENSION IN CONTRACT PERIOD (WHERE APPLICABLE) AND IF THE PROCURING AGENCY OPTS TO INCLUDE THIS QUESTION, THIS SHOULD BE INCLUDED IN ORIGINAL ADVERTISEMENT AS WELL.....	72
SECTION-VI. SPECIAL CONDITIONS OF CONTRACT	75
1. Definitions (GCC Clause 1).....	76
2. Performance Guarantee (GCC Clause 6)	76
3. Commencement of Services (GCC Clause 8)	76
4. Time Schedule of Services (GCC Clause 9).....	77
5. Payments (GCC Clause 10).....	81
6. Prices (GCC Clause 11).....	83
7. Contract Prices (GCC Clause 12)	83
8. Price Variation (Increase or Decrease) / Escalation / De-Escalation (GCC Clause 13).....	83
9. Change Orders & Variations (GCC Clause 14).....	88
10. Contract Amendments (GCC Clause 15).....	89
11. Sub-Contracting (GCC Clause 17)	89
12. Liquidated Damages (GCC Clause 19)	89
13. Termination for Default (GCC Clause 20)	89
14. Termination for Insolvency (GCC Clause 22)	90
15. Resolution of Disputes (GCC Clause 24)	90
16. Operative Language (GCC Clause 25)	91
17. Applicable Law (GCC Clause 26)	91
18. Notices (GCC Clause 27)	91
SECTION-VII. SCHEDULE OF REQUIREMENT / WORK PLAN / DEPUTATION PLAN	98



<i>Work Plans / Deposition Plans</i>	95
<i>Commencement of Services</i>	95
SECTION-VIII: SAMPLE FORMS	99
8.1 BID FORM.....	100
8.2 BIDDER'S IV NUMBER INFORMATION FORM.....	102
BIDDING FORM T1 - LETTER OF TECHNICAL PROPOSAL	103
BIDDING FORM T2 - FORM OF INTEGRITY PACT	105
BIDDING FORM T3 - FORM OF POWER OF ATTORNEY	106
BIDDING FORM T4 - FORM OF AFFIDAVIT	107
BIDDING FORM T5 - BIDDER / CONTRACTOR'S ORGANIZATION AND EXPERIENCE	110
BIDDING FORM T6 - FORM OF BID SECURITY	112
BIDDING FORM F1 - LETTER OF FINANCIAL PROPOSAL	115
BIDDING FORM F2 - FIN FORM	117
BIDDING FORM F3 - FORM OF PERFORMANCE GUARANTEE	119
SECTION IX- CHECK LIST	122



SECTION-I:



INVITATION TO BID

SUBJECT: OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL (LOT#1 TEHSIL KHANEWAL) (LOT#2 TEHSIL KABIRWALA) (LOT#3 TEHSIL JAHANIAN) (LOT#4 TEHSIL MIAN CHANNU)

1. MWMC intends to invite sealed unconditional bids from you being the pre-qualified bidder for the subject assignment against an estimated price mentioned below for Three years (Inclusive of all applicable taxes and other obligations as per TORs / Scope of Services) having bid validity period of 180 days. This Pre-Qualification shall be valid for the duration of the project (i.e. three years). The Invitation to Bid is being addressed to the following Pre-Qualified bidders for submission of Technical & Financial proposals / bids for **OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL:**

M/s (JV) DAFWOO PAKISTAN (Lead Partner), GHULAM BUSSAIN & SONS WASTE BUSTERS	For 4 Lots
M/s (JV) S.A ENTERPRISES - SARMIK (PVT) LTD - ANW ENTERPRIZER - BABAR & UMAR (PVT) LTD	For 4 Lots
M/s OUTRIDERS PVT. LTD.	For 4 Lots
M/s (JV) AMJAD ALI (Lead Partner), AKB ENGINEERING AND CONSTRUCTION, NAWAB KHAN & BROTHERS	For 3 Lots
M/s (JV) NJC (Lead Partner), MMC, NCS	For 3 Lots
M/s ARAR INNOVATIONS PVT. LTD.	For 2 Lots
M/s MUNIR HUSSAIN BHUTTA CONTRACTOR (PVT) LTD	For 2 Lots
M/s SUPER CARE SERVICES PVT. LTD.	For 1 Lot

Note: In case a firm is not awarded a contract, its turnover may be considered for other Lots in remaining districts

2. The above-mentioned prequalified bidders if intended to participate in the bidding process for the above-mentioned assignment, may obtain bidding documents mentioning "Tehsil Name" from MWMC Head Office by producing this letter along with application on their letterhead by depositing the tender fee of Rs.5,000/- (Non-Refundable), to be deposited in the, "The Bank of Punjab (Any Branch)" in the Account titled "Multan Waste Management Company", A/c # 6580103321400019 and shall accompany the deposit receipt of aforementioned amount along with the application. Pre-Bid meeting will be held on **July 18, 2024 at 1400 hours** at MWMC Head Office.
3. Bidding shall be conducted as per Rule 38 (2)(a) i.e. Single Stage-Two Envelope bidding procedure of Punjab Procurement Rules, 2014. The bids should clearly be marked as Technical & Financial proposal for **"OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL (RURAL & URBAN AREAS)"** and sealed when submitted. Bidder can participate in any tehsil by submitting non-identical resources for each tehsil regarding Bank Balance / Credit Limit, Specialized Machinery & Key Personnel.
4. Sealed Bids (Containing Original filled duly signed & stamped Bidding Document, shall require to have attached Bid Security as per Rule 27 of PPRA Rules 2014 mentioned below:

Sr#	Tehsil Name	Estimated Cost in million	Bid Security in PKR
		PKR	
1	LOT#1 TEHSIL KHANEWAL	4,216.11	20 million
2	LOT#2 TEHSIL KABIRWALA	5389.79	20 million
3	LOT#3 TEHSIL JAHANIAN	3971.44	20 million
4	LOT#4 TEHSIL MIAN CHANNU	3272.20	20 million

in the form of instrument acceptable to the Procuring Agency in the shape of either Bank Guarantee/CDR/SDR/DD/Banker's Cheque) at the time of submission by you on or before **July 25, 2024 till 1400 Hours** positively at the address given below. The bids received till stipulated date & time shall be opened on the same day at **1430 Hours** in the presence of the bidders or their authorized representatives who choose to attend. The Contract will be awarded Tehsil (Lot) wise. However, in case of a public holiday, the bid submission and opening will be carried out on the next working day. Late bids shall not be accepted.

Manager (P & C)

Multan Waste Management Company (MWMC)

Local Government & Community Development, Department, Government of Punjab.

Building No. 275/RB, Ward 4 XEX, Shamsabad Colony, Near Chuagi No. 09, Multan Pakistan. Tel:

(92)061-9330175

DISCLAIMER

This Bidding Document is being issued to the recipient by the Procuring Agency solely for use in preparing and submitting its Bid for participation in the national competitive bidding process being conducted by the Procuring Agency for the purposes of selection of a successful Bidder to perform and undertake the Bidder / contractor's Obligations in relation to the Project.

The Bids will be evaluated in accordance with the selection criteria and prevailing applicable laws. Neither the Procuring Agency, nor its employees, personnel, agents, consultants, advisors and contractors etc., make any representation (express or implied) as to the accuracy or completeness of the information contained herein, or in any other document made available to any person in connection with the Bidding Process and the same shall have no liability for these Bidding Document or for any other written or oral communication transmitted to the Bidders in the course of the evaluation of Bids. Neither the Procuring Agency nor its employees, personnel, agents, consultants, advisors and contractors etc., will be liable in any manner whatsoever to reimburse or compensate the Bidders for any costs, fees, damages or expenses incurred by the Bidders in evaluating or acting upon these Bidding Document or otherwise in connection with the Bidder / contractor's Obligations in relation to the project. Any Bid submitted in response to invitation to bid by any of the Bidders shall be upon the full understanding and Contract of any and all terms of these Bidding Document and such submission shall be deemed as an acceptance by the Bidders of all the terms and conditions stated in these Bidding Documents.

A Bid submitted by a Bidder shall be construed to be based on the full understanding that the Bidder acknowledges and fully comprehend all the contents of the bidding document prior to the submission of the Bid. The Bidder has, after a complete and careful examination, made an independent decision for submission of the bid. The Procuring Agency (including its employees, personnel, agents, consultants, advisors and contractors etc.) makes no representation whatsoever, express, implicit or otherwise, regarding the accuracy, adequacy, correctness, reliability and / or completeness of any assessment, assumptions, statement or information provided by it and the Bidder shall have no claim whatsoever of any nature against the Procuring Agency (including its employees, personnel, agents, consultants, advisors and contractors etc.) in this regard.

This Bidding Document do not constitute a solicitation to invest or otherwise participate in the Bidding Process for award of the Contract.



DEFINITIONS

The following terms shall have the following meanings, unless the context otherwise requires. **"Acceptance of Notification of Award"** has the meaning given to that term in ITB 2.6.1.

"Contract" means the Contract for Outsourcing of SWM Services including Primary and Secondary Collection and Transportation of Solid Waste to Dumpsite Site of Tehsil Naree and other obligations as per TORs, including all schedules attached thereto, to be entered into between the Procuring Agency and the Successful Bidder, in relation to the Project.

"Applicable Laws" means laws of Pakistan for the time being in force including the following:

- a) all ordinances, notices, codes, administrative practice, directives, notification, clarification, policy, circulars, guidelines, permits, licenses, permissions, approvals, consents, requirement or other governmental restrictions (and all conditions relating to such permits, licenses, clarifications, permissions, approvals or consents) made or issued under (a) and (b) above; and
- b) any judgments, decrees, notices, orders, directions, instructions, policies, awards or any facts or decision of or determination by or interpretation of any of (a) and (b) above (whether or not having the force of law) by any authority, in each case as amended, re-enacted or replaced to the extent applicable.

"Assets" means the movable and immovable properties and assets, including the Vehicles procured by the Bidder / contractor or acquired from the procuring agency for undertaking the Bidder / contractor's Obligations. Bidder shall return the properties & assets including vehicles to the procuring agency in acceptable condition.

"Authorized Representative" has the meaning given to that term in ITB 2.3.2.

"Bid" means the bid comprising a Technical Proposal and a Financial Proposal, submitted or to be submitted by the Bidder to the Procuring Agency pursuant to the Bidding Document for the Project.

"Bidder(s)" means a person, firm or bidder / contractor who has submitted a Bid to the Procuring Agency pursuant to the Bidding Documents.

"Bidding Documents" has the meaning given to that term in ITB 2.2.1.

"Bidding Forms" means the forms attached to this Bidding Document that shall be filled out by the Bidder and submitted as part of the Bid.

"Bidding Process" has the meaning given to that term in ITB 2.1.1.

"Bid Opening" has the meaning given to that term in ITB 2.5.1.

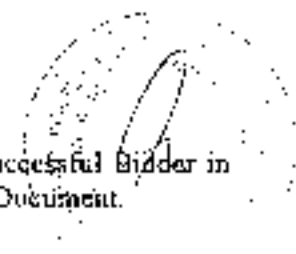
"Bid Price" means the price calculated as the product of services quoted by the Bidder in accordance with financial forms and TORs (Scope of Services) for a period of 03 years. Reference to **Form F2**.

"Bid Security" has the meaning given to that term in ITB 2.3.6.

"Bid Validity Period" has the meaning given to that term in ITB 2.3.7.

"Clarification" has the meaning given to the term in ITB 2.5.3.

"Bidder / contractor's Obligations" includes the services to be provided by the Successful Bidder in terms of the Contract, as specified in Bidder / contractor's Obligations of the Bidding Document.



"Bidder / contractor's Taxes" means any and all taxes (and duties), direct or indirect, whether imposed by Pakistan or elsewhere and whether imposed directly by a governmental authority or indirectly through any other person (including local/provincial governments), imposed or assessed by any federal or provincial/local taxing authority in Pakistan or elsewhere (or any political subdivision thereof or therein) whether general or special, whether ordinary or extraordinary, whether foreseen or unforeseen, payable by the Bidder / contractor in connection with the Bidder / contractor's Obligations whether payable in instalments or not and regardless of whether such taxes are chargeable directly or primarily to the Bidder / contractor or any other person in connection with the Bidder / contractor's Obligations and whether any amount in respect of them is recoverable from any other person.

"Consents" means all such approvals, consents, authorizations, notifications, concessions, acknowledgements, licenses, permits, or similar items that is or are required to be, from time to time, obtained and/or maintained by the Bidder / contractor for the performance of its obligations under the Contract.

"Construction Activities" means construction of tanks(s), boundary wall and other constructions by the bidder / contractor at the TSs as per the design and specifications agreed by the Procuring Agency.

"Development Phase" means the mutually agreed period between procuring agency and contractor / bidder during which the bidder / contractor will undertake the necessary activities and perform its obligations related to this assignment/job as per TORs.

"Encumbrance" means any charge, pledge, hypothecation, lien, mortgage, assignment, right of set-off, option, contractual restrictions (such as negative covenants having the effect of creating or acknowledging security interests in favor of creditors) or other encumbrance or security arrangement or interest of any kind securing any obligation or any type of preferential arrangement (including conditional sale, title transfer and retention arrangements) having similar effect.

"Force Majeure Event" means an event beyond the reasonable control of a party to the Contract, which materially and adversely affects the performance by such affected party of its obligations under or pursuant to the Contract; provided, however, that such material and adverse effect could not have been prevented, overcome or remedied in whole or in part by the affected party through the exercise of diligence and reasonable care, such events include but are not limited to, any of the following:

- a) Pandemic or epidemic;
- b) Acts of God, including fire, flood, earthquake, windstorm, tornado, hurricane, or other natural disaster;
- c) War, threat of or preparation for war, armed conflict, imposition of sanctions, embargo, breaking off of diplomatic relations or similar actions;
- d) Terrorist attacks, civil war, civil commotion, strikes, or riots;
- e) Nuclear, chemical or biological contamination or sonic boom;
- f) Fire, explosion or accidental damage.

"Government Authority" means any federal, state, local or municipal governmental body, and any governmental, regulatory, or administrative agency, commission, body, or other authority exercising or entitled to exercise any administrative, executive, judicial, legislative policy, regulatory or taxing authority or power, or any court or governmental tribunal.

"Financial Proposal / Bid" means the financial proposal / bid submitted by a Bidder as part of its Bid pursuant to the invitation to bid.

"TS" means the Transfer Stations, a facility with a designated receiving area used for temporary deposition, accumulation and aggregation of waste.

"**Insolvency Event**" means when the Bidder / contractor shall (i) be adjudicated insolvent pursuant to a non-appealable judgment, decree or order of a court of competent jurisdiction in Pakistan or any other jurisdiction (inside or outside Pakistan); (ii) commence a voluntary bankruptcy or insolvency case or proceeding; (iii) consent to, or acquiesce in the institution of a bankruptcy or an insolvency proceeding against it or the entry of a judgment, decree or order for relief against it in an involuntary bankruptcy or insolvency case or proceeding; (iv) apply for, consent to or acquiesce or be in the appointment of or take possession by a custodian of its business or of any substantial part of its property; or (v) take any corporate (or individual) action in furtherance of or to facilitate, conditionally or otherwise, any of the foregoing, in each case in Pakistan or any other jurisdiction.

"**Integrity Pact**" has the meaning given to that term in **ITB 2.6.9**.

"**ITB**" or "**Instruction to Bidders**" means the instructions to Bidders set out in the Bidding Documents

"**Dumpsite**" means designated area for final disposal of the solid waste, designated by MWMC.

"**Lead Partner / Member**" means in case the Bidder is a JV / Consortium, a member of a JV / Consortium who is duly authorized by the other JV / Consortium members to represent and bind the JV / Consortium in all matters connected to the Bid. Contract shall be considered as terminated if lead bidder in a JV / Consortium refused to continue services/work.

"**Invitation to Bid**" means the Letter of Invitation issued to prequalified bidders for participation in the subsequent Bidding Process for **OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEVAL, (RURAL & URBAN AREAS)**.



“**Material Breach or Material Adverse Effect**” means in relation to an event or circumstance, an event or circumstance, the occurrence or effect of which has materially and adversely impaired or can reasonably be expected to materially and adversely impair the ability of the Bidder / contractor to perform the Bidder / contractor’s Obligations under this Contract to the extent that the performance of the Bidder / contractor’s Obligations becomes impossible.

“**Material Obligation**” means an obligation which if not fully and timely paid or performed would have a Material Adverse Effect.

“**Notification of Award**” shall have the same meaning as given to that in **ITB 2.6.1**

“**Operations Period**” means a period of 03 years (extendable for another three years on annual basis) from the signing of the Contract, during which period the Bidder / contractor will perform the contractual obligations.

“**Owned Machinery**” means the machinery / vehicles to be purchased by the Bidder / Contractor.

“**Pakistani Rupee**” or “**PKR**” means the lawful currency of Pakistan

“**Performance Guarantee**” means the Performance Guarantee to be furnished and maintained by the Bidder / contractor in accordance with **ITB 2.6.2** and the Contract.

“**Procurement Laws**” means collectively: (a) the Punjab Procurement Regulatory Authority Act, 2009; and (b) the Punjab Procurement Rules, 2014; as may be amended, modified, supplemented, extended or re-enacted from time to time.

“**Procuring Agency**” means the Client i.e. “Multan Waste Management Company (MWMCO)”, located at Local Government & Community Development, Department, Government of Punjab, Plotting No. 115/III, Ward # XXV, Shamsabad Colony, Near Chungi No. 05, Multan Pakistan. Tel: (+92)061 9900175; info.procurement@mwco.com.pk

“**Project**” means Outsourcing of SWM services including Primary, Secondary and tertiary Collection and Transportation of solid waste to Dumpsite site and De-silting / Cleaning of Nallas and Small Open Drains of District Khunewal, and all related matters as per KPI or Operational Model described in the Section-III of Bid document. The proposed waste collection and transportation through Door to Door and Container Based collection will also include street sweeping and washing (both mechanical and manual), De-silting / Cleaning of Nallas and Small Open Drains, mechanical sweeping, mechanical washing & scrapping of roads. The Successful Bidder would be responsible for procuring and Developing of infrastructure and personnel for carrying its aforesaid operations. The contractor shall also be responsible to perform the function of fee collection (billing & collections system defined by the client in Section-(II)).

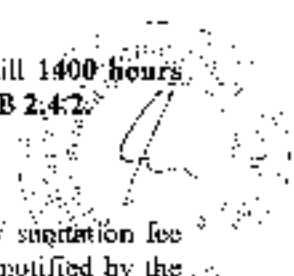
“**Rented Vehicles**” means the vehicles to be acquired by the Bidder / contractor on rental basis from any party through legal arrangements for performance of the Bidder / contractor’s Obligations, in accordance with this Bidding Document and the Contract. Submission of Fitness Certificate for the rented vehicles is mandatory before execution of the services under the Contract.

“**Required Documents**” has the same meaning given to the term in **ITB 2.6.3**

“**Submission Deadline**” means closing date for submission of bids i.e. **July 25, 2024 till 1400 hours** (Pakistan Standard Time) which may be extended by the Procuring Agency in terms of **ITB 2.4.2**.

“**Sub-Contractor**” has the same meaning given to that term in **ITB 2.3.2.1 (IV)**.

“**Sanitation Fee**” Contractor shall be responsible for fee collection of waste collection / sanitation fee from the Residential, Commercial & Industrial etc. units as per the rates and categories notified by the



government from time to time against the mechanism defined by the Client in Section-III

"Successful Bidder" means the Bidder: (i) having the lowest evaluated Bid pursuant to the requirements of the Bidding Document and the Procurement Laws, and (ii) selected by the Procuring Agency to execute the Contract pursuant to the requirements of the Bidding Document and perform and undertake the Bidder / contractor's Obligations.

"Technical Proposal / Bid" means the technical proposal / bid submitted by a Bidder as part of its Bid pursuant to the Bidding Document.

"Vehicles" means the vehicles to be procured/provided by the Bidder / contractor for performance of the Bidder / contractor's Obligations, in accordance with this Bidding Document and the Contract.

A circular official stamp with a signature in the center. The stamp is faint and appears to be a seal or official mark, possibly from a government or institutional body. The signature is handwritten and is the central focus of the stamp.

Section-II: Instructions to Bidders (ITB)



2.1. Introduction

2.1.1 Scope of Bid

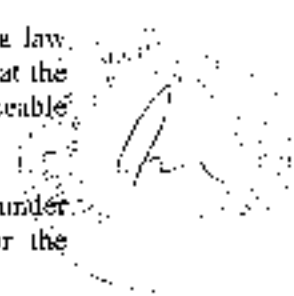
- i) The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the provision of **OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL (RURAL & URBAN AREAS)** as specified in the Section-III, Section- IV Bid Data Sheet (BDS) and Section VII- Schedule of Requirements. The successful Bidders will be expected to provide the services for the specified period and timeline(s) as stated in the BDS.

2.1.2 Source of Funds

- i) The Procuring Agency named in the Bid Data Sheet has received / committed budget from the Government of Punjab. The Procuring Agency intends to apply the provided funds/ a portion of this budget to make eligible payments under the contract for which the Invitation to bids has been issued to the prequalified firms/companies/JV etc.

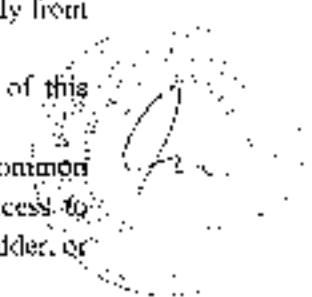
2.1.3 Eligible Bidders

- i) The Invitation to Bid is open to all Pre-qualified bidders mentioned in Invitation to Bid.
- ii) Where the Bidder is a Consortium / JV, the Bidder shall also submit as part of the Bid, the Contract executed between the JV / Consortium members clearly stating:
 - a. the participating interest of each Consortium / JV member;
 - b. the proposed role & responsibilities and share of each Consortium / JV member including Lead member in relation to this Project.
 - c. the conditions under which the Consortium / JV will function.
 - d. its period of duration;
 - e. details of the Lead Bidder;
 - f. any other information necessary to permit a full appraisal of its functioning;
 - g. that all partners of the Consortium / JV shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract;
 - h. That no amendments / modifications in JV / Consortium is allowed
- iii) Where the Consortium / JV Contract is governed by a law other than Pakistani law, a legal opinion confirming that the consortium Contract is legal, valid, binding and enforceable will be required.
- iv) All partners of the JV / Consortium shall at all times and under all circumstances be liable jointly and severally for the



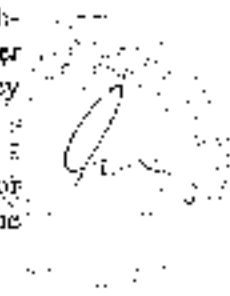
execution of the Contract in accordance with the terms thereof and a statement to this effect shall be included in the Form of Bid.

- v) Where the Bidder is a JV / Consortium, the Bid must identify the Lead Bidder, which is duly authorized (to the satisfaction of the Procuring Agency) by all other JV / Consortium members to act and deal with the Procuring Agency on their behalf in connection with the Project and to sign the Contract with other JV / Consortium members if the JV / Consortium is the Successful Bidder and to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the JV / Consortium.
- vi) In case of JV / Consortium, it shall be mandatory to register the JV / Consortium before award of contract and all the members of JV / Consortium shall liable to sign the Contract before execution as per the approved plan of the procuring agency
- vii) To obviate the chance of conflict of interest Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consultancy services for the preparation of the design, specifications, and other documents to be used for the procurement of the services to be purchased under this Invitation to Bids;
- viii) Bidders shall not be under a declaration of blacklisting by any Government department/other Procuring Agency or by Punjab Procurement Regulatory Authority (PPRA) or has not gone into court against any such order.
- ix) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:
 - a. Are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the services to be purchased under this Invitation for Bids.
 - b. have controlling shareholders in common; or
 - c. Received or have received any direct and indirect subsidy from any of them; or
 - d. have the authorized legal representative for purposes of this Bid; or
 - e. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or



influence the decisions of the Procuring Agency regarding the Bidding process:

- xi) A Bidder may be ineligible if
 - a. the Bidder is declared bankrupt or, in the case of bidder / contractor or firm, become insolvent;
 - b. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and disposal of its property;
 - c. legal proceedings are instituted against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and disposal of the property;
 - d. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;
 - e. The Bidder is debarred and blacklisted due to involvement in corrupt and fraudulent practices in accordance with the provision of section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014,
 - f. The Bidder is debarred and blacklisted in general (i.e. to the extent of all public procurement) due to consistent performance failure in accordance with the section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014
 - g. The firm, Service Provider and contractor or any member of the consortium is blacklisted/ debarred by any National and international organization.
- xii) Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
- xiii) Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.
- xiv) Bidders shall submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is required. Bidder shall obtain prior written approval from the Procuring Agency for any sub-contracting so required.
- xv) A Bid received from a Bidder, shall only be considered for further evaluation in accordance with the requirements of the



Bidding Document if the criteria, as set out in BDS, is fully met and any non-compliant Bid shall be rejected by the Procuring Agency. The Procuring Agency may require further verification of the evaluation criteria in such manner as it may deem fit and the circumstances provided in the Bidding Document which may constitute a conflict of interest are not exhaustive, and the Procuring Agency shall be the sole determinant when a conflict of interest shall arise.

xv) Each Bidder shall indemnify the Procuring Agency, its affiliates and its advisors fully in respect of any damage, cost, liquidated damages or expense of any kind incurred by such person arising from a Bidder's breach of its obligations referred to above and other obligations under the Bidding Documents.

2.1.4. Cost of Bidding

i) The Bidder shall bear all costs associated with the preparation and submission of its Bid and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding Process.

ii) The Bidder is advised to obtain for itself at its own cost and responsibility all information which may be necessary for preparing the Bid and entering into the Contract for execution and performance of the Bidder / contractor's Obligations. This shall include but not to be restricted to the following.

a. Inquiries on Pakistan federal, provincial and local taxes to the relevant tax regulatory authorities as per the applicable laws.

b. Inquiries on clearance of payments / profits abroad to the concerned authorities of State Bank of Pakistan.

c. Information regarding port clearance facilities, loading and unloading facilities, storage facilities, transportation facilities and congestion at Pakistan seaports.

d. Information regarding regulatory clearances or any other enforcement agency clearances required for import of goods, or other material, etc.

e. Investigations regarding transport conditions and the probable conditions which will exist at the time any goods or parts are required to be transported.

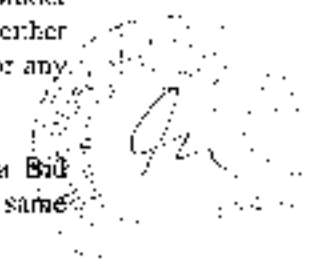
f. The successful bidder will provide stamp papers as per stamp duty Act 1899 as per requirement of Procuring Agency as per Law.

g. Any other information that may have a financial bearing on the Bid.

2.1.5. One person one bid

i) As per Rule 36A of Punjab Procurement Rules 2014, a Bidder shall submit only one Bid in the same bidding process, either individually as a Bidder or under a joint venture made or any similar arrangement.

ii) No Bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.



- ii) A Bidder, if acting in the capacity of sub-contractor in any Bid, shall not submit bid for the same
 - iv) Each Bidder / Service provider shall submit only one bid, either individually or as a joint venture. A Bidder/Service provider who submits or participates in more than one bids (in cases of alternatives that have been permitted or requested) will cause all the bids with the Service provider's participation to be disqualified
- 2.1.6. Work Plan/Deputation Plan**
- i) The Bidder shall be responsible for the provision of bids as per the work plan/deputation plan to be approved by the procuring agency and procuring agency may also, from time to time amend the same as per its requirement
 - iii) The Bidder/Service provider, at the Service provider's own responsibility and risk, is encouraged to visit and examine the Site of required Services and its surroundings and obtain all information that may be necessary for preparing the bid/Proposal and entering into a contract for the Services. The costs of visiting the Site shall be at the Service provider's own expense

2.2. The Bidding Documents

2.2.1. Content of Bidding Documents

- i) The services required, Bidding procedures, and contract terms are prescribed in the Bidding documents. The Bidding documents, inter alia, include

Section-I: Invitation to Bids

Section-II: Instructions to Bidders (ITB)

Section-III: Technical Specifications / TORs

Section-IV: Bid Data Sheet

Section-V: General Conditions of Contract (GCC)

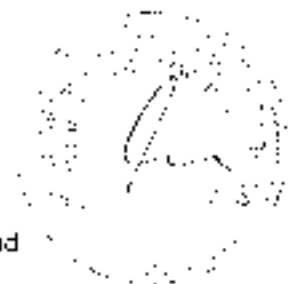
Section-VI: Special Conditions of Contracts (SCC)

Section-VII: Schedule of Requirements/Work Plan/Deputation Plan

Section-VIII: Sample Forms

For the Technical Proposal:

- a) T1 - Letter of Technical Proposal,
- b) T2 - Form of Integrity Pact,
- c) T3 - Form of Power of Attorney;
- d) T4 - Form of Affidavit; and Blacklisting
- e) T5 - Bidder / contractor's Organization and



Experience

f) F6 - Form of Bid Security; and

For the Financial Proposal:

g) F1 - Letter of Financial Proposal;

h) F2 - Total Project Cost / Total Bid Price

i) F3 - Form of Performance Guarantee

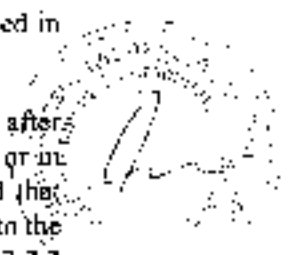
j) Draft Contract

Section-IX: Check List

- ii) The Bidder is required to examine all instructions, forms, terms, and specifications in the Bidding documents. Failure to furnish all information as required by the Bidding Document or to submit a Bid not substantially responsive to the Bidding Document in every respect will be at the Bidder's risk and may result in the rejection of its Bid.
- iii) In case of discrepancies between the Invitation to Bid and the Bidding Document listed in ITB 2.2.1 (j) above, the said Bidding Documents, not in conflict with any provision of PPR-14, will take precedence.
- iv) The Procuring Agency is not responsible for the completeness of the Bidding Document and their addenda, if they were not obtained directly from the Procuring Agency or from its website or website of PPRA. Re-confirming from the Procuring Agency that all pages, contents have been properly and clearly received is the prime responsibility of the Bidder

2.2.2. Clarification of Bidding Documents

- i) A prospective Bidder requiring any clarification of the Bidding Document may notify the Procuring Agency in writing or by email at the Procuring Agency's address indicated in Invitation to Bid / Tender Notice / Advertisement. The Procuring Agency will respond in writing to any request for clarification of the Bidding Document which it receives no later than seven (7) days prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying) will be sent to all prospective Bidders that have received the Bidding documents.
- ii) A prospective Bidder requiring any clarification of the Bidding Document may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the BDS.
- iii) The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than seven (7) days prior to the deadline for the submission of Bids. As prescribed in ITB 2.2.2

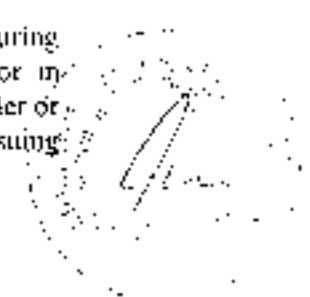


(f), above. However, this clause shall not apply in case of alternate methods of Procurement.

- iv) Copies of the Procuring Agency's response will be forwarded to all known Prospective Bidders who has acquired the Bidding Document through an expeditious identified source of communication, e.g.: e-mail etc., including a description of the inquiry, but without identifying its source
- v) Should the Procuring Agency deem it necessary to amend the Bidding Documents a result of a clarification, it shall do so following the procedure under ITB 2.2.3.
- vi) If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents
- vii) Minutes of the pre-Bid meeting, if applicable as required, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders who have obtained the Bidding Documents. Any modification to the Bidding Document that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 2.2.3. Non attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

2.2.3. Amendment of Bidding Documents

- i) At any time prior to the deadline for submission of Bids, but not later than three (3) days before the closing time of the submission of Bid, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding Document by amendment. Any such change/amendment in the Bidding Document shall be provided in a timely manner, preferably through electronic means also, not later than three (3) days, and on equal opportunity basis as per Rule-25(3) of PPR-14.
- ii) All prospective Bidders that have received the Bidding Document will be notified of the amendment in writing or by email, and will be binding on them.
- iii) Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or pre-Bid meeting may modify the Bidding Document by issuing addenda.



- iv) Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Document and shall be communicated in writing or in any identified electronic form, e.g. email that secures record of the content of subject communication.
- v) In order to allow prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency at its discretion, may extend the deadline for the submission of Bids, as per rule 79 of PPR-14, in the manner similar to the original advertisements, so as to avoid any inconvenience and to doubly ensure level playing field for all prospective bidders.

2.3. Preparation of Bids

2.3.1. Language of Bid

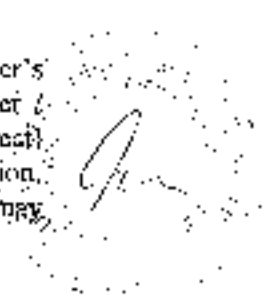
- i) The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in same language.

2.3.2. Bid Form

- i) The Bidder shall complete the Bid Forms (Technical & Financial Forms) provided in the Bidding documents, indicating the services identified in invitation to bid to be provided through "Authorized Representative" a person duly authorized to sign on behalf of the Bidder.
- ii) The Bid shall comprise a Technical Proposal, containing the documents listed in **ITB 2.3.2.1** hereof, and a Financial Proposal, containing the documents listed in **ITB 2.3.2.2**, each submitted simultaneously in separately sealed envelopes clearly marked "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" respectively.
- iii) Bidders are expected to carefully examine the Bidding Document when preparing their Bids and use only the relevant Bidding Forms as set out in **ITB 2.2.1 (i)**. Bidding Forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. Any deviations / omissions / reservations from the formats provided in the Bidding Document shall not be accepted and may form basis for the rejection of the Bid. Material deficiencies in providing the information requested may result in rejection of a Bid.

2.3.2.1 Technical Proposal

- i) The Technical Proposal shall demonstrate the Bidder's unconditional acceptance of the complete scope of Bidder's contractor's Obligations and any obligations (direct or indirect) of the Bidder under the Contract. Any omission, reservation, deviation or condition attached in the Technical Proposal may cause the Bid to be declared non-responsive.



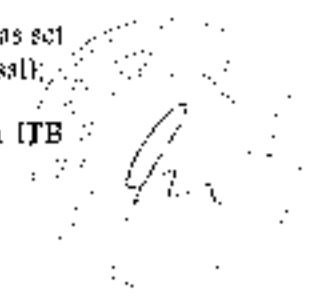
- ii) The Technical Proposal submitted by the Bidder shall include the following information:
- a. Signed and filled out: Letter of Technical Proposal undertaking unconditional acceptance of the Bidder / contractor's Obligations, as set out in Bidding Form T1 (Letter of Technical Proposal);
 - b. Integrity Pact, as set out in Bidding Form T2 (Form of Integrity Pact), in accordance with ITB 2.6.9 (Integrity Pact);
 - c. Written confirmation authorizing the signatory of the Bid to commit the Bidder, as set out in Bidding Form T3 (Form of Power of Attorney);
 - d. Documentary evidence establishing that the Bidder is eligible and not blacklisted, as set out in Bidding Form T4 (Form of Affidavit), in accordance with Basic Eligibility Criteria;
 - e. Companies Organization and Experience as set out in Bidding Form T5;
 - f. Bid Security, as set out in Bidding Form T6 (Form of Bid Security), in accordance with ITB 2.3.6 (Bid Security);
 - g. Evidence indicated for each requirement of Basic Eligibility Criteria and each qualification criteria specified in Evaluation and Qualification Criteria;
 - h. List of insurances to be obtained by the Bidder in accordance with ITB 2.6.10 (Insurance & Indemnification); and,
 - i. Any other documents required under the Bidding Document (See Bidding Document ITB 2.2)
- iii) The Technical Proposal shall not include any direct or indirect financial information relating to the Financial Proposal. Any Bid having such financial information shall be declared non-responsive.
- iv) The Bidder may sub-contract the project during the Operations Period with the prior written consent of the Procuring Agency. The Bidder will at all times and for all purposes remain liable in connection with any matter which may arise as a result of sub-contracting, including resolution of any disputes, performance, quality, delivery, timeliness etc. of the sub-contracted Bidder / contractor's Obligations etc.
- v) For the sake of clarity, it is specified that the Technical Proposal should include: (i) a brief introduction of the Bidder's organization and an outline of its recent experience (in case of a consortium / joint venture, each partner shall provide such

information); (ii) a finalized and exclusive list of proposed personnel by area of expertise in relation to each designation; (iii) any other requirement as per this Bidding Document

- vi) A technical proposal to be submitted with details of operational model for IIR, equipment, vehicles, system provided addressing the scope of work in detail with diagrams and design explaining methodology including verification and confirmation protocol.

2.3.2.2 Financial Proposal

- i) In preparing the Financial Proposal, Bidders are expected to fully understand the requirements and conditions outlined in the Bidding Documents, all contractual obligations of the Procuring Agency, scope of Bidder / contractor's Obligations, and any obligations, direct or indirect, of the Successful Bidder under the Bidding Documents.
- ii) Bidders would be required to quote their Financial Proposal in line with the requirements of Section III Technical Specifications of this document as whole as well. The technically responsive bidder with the lowest Financial Proposal would be considered as the Successful lowest evaluated Bidder.
- iii) The Financial Proposal shall provide a quote for the entire Bidder / contractor's Obligations on a "single responsibility" basis such that it covers all obligations of the Bidder mentioned in or to be reasonably inferred from the Bidding Documents in respect of the Bidder / contractor's Obligations.
- iv) Any omission, reservation, deviation or condition included in the Financial Proposal to the contrary may cause the Bid to be declared non-responsive.
- v) The Financial Proposal / quote of the bidder must be inclusive of all applicable taxes and it shall also comprise the following:
 - a. Bidders are required to specify, in their Financial Proposals, all Bidder / contractor's Taxes applicable in relation to the provision and execution of the Bidder / contractor's Obligations;
 - b. The Bidder shall be responsible for the Bidder / contractor's Taxes in accordance with the requirements as stipulated in the Contract;
 - c. Signed and filled out Letter of Financial Proposal, as set out in Bidding Form F1 (Letter of Financial Proposal);
 - d. Details of Financial Proposal, in accordance with **ITB 2.3.2.2** (Financial Proposal);



e. Any other document required in the Bidding Documents.

vi) Bidders are hereby cautioned that proposals with conditional offers or deviation from the conditions and instructions contained in this Bidding Document or other requirement stipulated therein shall result in rejection of proposal / Bid as non-responsive and shall not be considered. Under no circumstances shall the Procuring Agency consider / accept a conditional or partial Bid.

vii) Only one Bid proposal fulfilling all conditions, instructions and requirement contained in Bidding Document shall be submitted by each Bidder. Alternative proposal shall not be accepted. Each Bidder in terms of Rule 30A of PPRA Rules 2014 shall submit only one Bid either by itself or as a partner in a joint venture/consortium. A Bidder who submits or participates in more than one Bid will be disqualified.

2.3.3. Bid Prices

- i) The Bidder shall indicate on form F 1 & F 2, the Total Bid Price for three years of the services which it proposes to render / provide under the terms and conditions specified in **Section III**.
- ii) Prices indicated on the Price Schedule shall be for Tehsil (insert Tehsil Name of Khanewal District) only.
- iii) Bidder shall quote bid price for complete project duration i.e. three years and evaluation will be carried out on the basis of Total Bid Price for three years. Partially / Conditionally filled bid price will be declared non-responsive.
- iv) All the applicable taxes shall be included in the bid price. Any increase / decrease in the taxes, the tax amount will be adjusted as per provisions of prevailing state laws accordingly.
- v) The Bidders must adhere to the minimum wage rate (notified by Labor & Human Resource Department, GOPb), other mandatory regulations as per labor laws and all other obligations as per TORs/Scope of Services while preparing financial bid.
- vi) The Bidder's separation of price components in accordance with ITB Clause 2.3.4(i) above will be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency and will not in any way limit the Procuring Agency's right to contract on any of the terms offered.
- vii) Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A Bid submitted with an adjustable price quotation will be treated as non-responsive and may be rejected.
- viii) The following expenses will be included in the Total Bid Price;

- ix) All costs associated with the operational management, monitoring, supply of the items for execution as well as performance of works and services according to the Contract, expenses related to fuel, spare parts, maintenance and repair, replacement and depreciation of vehicles (solid waste collection and transportation vehicles / sweeping and washing machines) etc.
- x) The cost of other incidental items, cost of transportation, cost of trolleys, cost of waste bags, containers, dustbins and others mentioned in various sections of the Contract.
- xi) Cost of hiring the managerial as well as operational and field staff for execution of the Contract.
- xii) Cost of any or all insurances related to and for the purpose of works and cost of all taxes, duties and levies required to be paid by the Bidder / contractor pursuant to laws of Pakistan as well as provincial government.
- xiii) All the above-mentioned costs and those mentioned in the sections of the Contract, must be considered and included in the contract price.

2.3.4. Bid Currencies

- i) Prices shall be quoted in **Pak Rupees** unless otherwise specified in the Bid Data Sheet.
- ii) The Bidders must adhere to the minimum wage rate (notified by Labor & Human Resource Department, GOPl), other mandatory regulations as per labor laws and all applicable taxes (imposed by FBR/PRA/any other government organization) while preparing financial bid.

2.3.5. Documents Establishing Bidder's Eligibility and Qualification

- i) Pursuant to ITB Clause 2 1.3, the Bidder shall furnish, as part of its Bid, documents establishing the Bidder's eligibility to Bid and its qualifications to perform the contract if its Bid is accepted.
- ii) The documentary evidence of the Bidder's eligibility to Bid shall establish to the Procuring Agency's satisfaction, that the Bidder, at the time of submission of its Bid, is eligible as defined under ITB Clause 2 1.3.
- iii) The documentary evidence, of the Bidder's qualifications to perform the contract if its Bid is accepted, shall establish to the Procuring Agency's satisfaction:
 - (a) that the Bidder has the financial, technical capability necessary to perform the contract;
 - (b) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.

- iv) The Procuring Agency retains the right to verify particulars regarding any information, statements and/or documents furnished with the Bid. Any Bidder found to be misrepresenting information may be disqualified at any stage of the Bidding Process and may be proceed under Rule 20 and 21 of PPR Rules 2014 and their Bid Security / performance guarantee shall be forfeited, even after award of contract.

2.3.6. Bid Security

- i) The Bidder shall furnish, as part of its Bid, a Bid security in the amount specified in the Bid Data Sheet.
- ii) The Bid security is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture Pursuant to ITB Clause 2.3.6. (vii).
- iii) The Bid security shall be in the form of CDR / Bank Guarantee issued by a scheduled bank in Pakistan or from a foreign bank duly counter guaranteed by a scheduled bank in Pakistan in favor of MWMC valid for a period 30 days beyond the bid validity date.
- iv) Any Bid not secured in accordance with ITB Clauses 2.3.6 (i) & (ii) may be rejected by the Procuring Agency as non responsive
- v) Unsuccessful Bidders' Bid security will be discharged or returned as promptly as possible but not later than 30 days after the execution of contract with the successful bidder expiration of the period of Bid validity prescribed by the Procuring Agency pursuant to ITB Clause 2.3.7 (ii) (a) or along with unopened financial proposal as per rule 38(2)(a)(vii) of PPR-14, which shall take precedence, and is as under:
- "38(2)(a)(vii) the financial proposal of the Bids found technically non-responsive shall be returned unopened and shall be returned on the expiry of the grievance period or the decision of the complaint, if any, filed by the non-responsive Bidder, whichever is later; provided that the Procuring Agency may return the sealed financial proposal earlier if the disqualified or non-responsive Bidder, contractor submits an affidavit, through an authorized representative, to the effect that he is satisfied with the proceedings of the Procuring Agency".*
- vi) The successful Bidder's Bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 2.6.1, and furnishing the Performance Guarantee, pursuant to ITB Clause 2.6.2.
- vii) The Bid security may be forfeited.
- a. If a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
- b. In the case of a successful Bidder, if the Bidder:
- i. Fails to sign the contract in accordance with ITB Clause 2.6.3; or



ii. Fails to furnish Performance Guarantee in accordance with ITB Clause 2.6.2; or

iii. Is blacklisted under relevant provisions of PPRA Act, 2009 and PPR-14.

2.3.7. Period of Validity of Bids

i) Bids shall remain valid for the period specified in the Bid Data Sheet after the date of Bid opening prescribed by the Procuring Agency. A Bid valid for a shorter period may be rejected by the Procuring Agency as non-responsive.

ii) In exceptional circumstances, the Procuring Agency may solicit the Bidder's consent to an extension of the period of validity (as per rule-28 of PPR-14). The request and the responses thereon shall be made in writing (or by email). The Bid security provided under ITB Clause 2.3.7 shall also be suitably extended. A Bidder may refuse the request without forfeiting of its Bid security. A Bidder accepting the request will neither be allowed nor permitted to modify its Bid.

2.3.8. Format and Signing of Bid

i) The Bidder shall prepare an original and the number of copies of the Bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall prevail.

ii) The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the Bid, shall be initialed by the person or persons signing the Bid. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature.

iii) Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the Bid.

2.3.9. Minimum Wage rates/all applicable taxes

i) The Bidders must adhere to the minimum wage rate (notified by Labor & Human Resource Department, GO Punjab) and other obligations as per labor laws and all applicable taxes (Income Tax & PRA etc.) imposed by Govt. of Punjab while preparing financial bid.

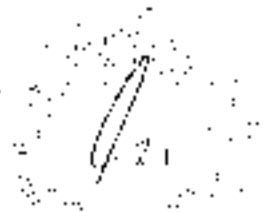
2.4. Submission of Bids

2.4.1 Sealing and Marking of Bids

i) As per Rule 24 of PPRA Rules 2014, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.

ii) The inner and outer envelopes shall:

- a. be addressed to the Procuring Agency at the address given in the Bid Data Sheet; and
 - b. bear the title of procurement Activity indicated in the Bid Data Sheet, the Invitation to Bids (ITB) title and number indicated in the Bid Data Sheet, and a statement: "DO NOT OPEN BEFORE" Date and Time as specified in the Bid Data Sheet, pursuant to ITB Clause 2.4.2.
- iii) The inner envelopes shall also indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared "late".
- iv) If the outer envelope is not sealed and marked as required by ITB Clause 2.4.1 (i), the Procuring Agency will assume no responsibility for the Bid's misplacement or premature opening.
- v) In case of Single Stage One Envelope Procedure, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY". The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.
Note: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-35 of PPR-2014, which shall have precedence.
- vi) The inner and outer envelopes shall:
 - a) be addressed to the Procuring Agency at the address given in the **BDS**; and
 - b) bear the title of the subject procurement or Project name, as the case may be as indicated in the **BDS**, the Invitation to Bids (ITB) title and number indicated in the **BDS**, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified in the **BDS**, pursuant to **ITB 2.4.2**.
- vii) In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under
 - a) Bidder shall submit his **TECHNICAL PROPOSAL** and **FINANCIAL PROPOSAL** in separate inner envelopes and enclosed in a single outer envelope.
 - b) **ORIGINAL** and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (c) The envelopes containing the **ORIGINAL**, and copies will be put in one sealed envelope and addressed / identified as given in **BDS**.
- viii) The inner and outer envelopes shall:



- a) be addressed to the Procuring Agency at the address provided in the BDS;
 - b) bear the name and identification number of the contract as defined in the BDS; and provide a warning not to open before the time and date for bid opening, as specified in the BDS, pursuant to ITB 2.4.2;
 - c) In addition to the identification required in Sub- Clause (b) hereof, the inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to ITB.2.4.3.
- 2x) If all envelopes are not sealed and marked as required by **ITB 2.4.1** or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.

2.4.2 Deadline for Submission of Bids

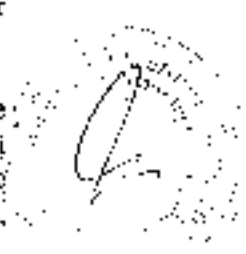
- i) Bids must be received by the Procuring Agency at the address specified under BDS no later than the time and date specified in the Bid Data Sheet.
- ii) The Procuring Agency may, at its discretion and as per rule 29 of PPR-14, extend this deadline for the submission of Bids by amending the Bidding Document in accordance with ITB Clause 2.2.2 & 2.2.3 in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- iii) Bids shall be received by the Procuring Agency at the address specified under **BDS** no later than the date and time specified in the **BDS**.

2.4.3. Late Bids

- i) Any Bid received by the Procuring Agency after the deadline for submission of Bids prescribed by the Procuring Agency pursuant to ITB Clause 2.4.2 will be rejected and returned unopened to the Bidder.
- ii) The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids.
- iii) Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.

2.4.4. Modification and Withdrawal of Bids

- i) The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification, including substitution or withdrawal of the Bids, is received by the Procuring Agency prior to the deadline prescribed for submission of Bids.
- ii) The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of Clause (c) A withdrawal notice may also be sent by email, but followed by a signed confirmation copy, postmarked not later than the deadline for submission of Bids



- iii) No Bid may be modified after the deadline for submission of Bids.
- iv) No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval may result in the Bidder's forfeiture of its Bid security (along with other remedies available under PPR-14), pursuant to the ITB Clause 2.3.7 (vi).
- v) A Bidder may withdraw its Bid after it has been submitted, provided that written notice of the withdrawal of the Bid, is received by the Procuring Agency prior to the deadline for submission of Bids.
- vi) Revised bid may be submitted after the withdrawal of the original bid before the deadline for submission of Bids.

2.5. Opening and Evaluation of Bids

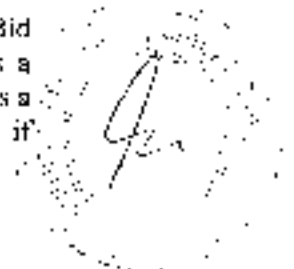
2.5.1. Opening of Bids by the Procuring Agency

- i) The Procuring Agency will open all Bids, in public, in the presence of Bidders' or their representatives who choose to be present on the date and time, specified in the BIDS. The Bidders' representatives present shall sign a register as proof of their attendance.
- ii) First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening.
- iii) Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
- iv) Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification,



will remain unopened till the prescribed financial bid opening date.

- vi) Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and of any alternative Bid (if alternatives have been requested or permitted), any discounts, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.
- vii) In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the BDS in the presence of Bidders' designated representatives who choose to be present. The Financial Proposals will remain unopened and will be held in the safe custody of the Procuring Agency until the specified time of their opening.
- viii) The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the presence of a Bid Security, if required; and (d) Any other details as the Procuring Agency may consider appropriate.
- ix) Bids not opened and not read out at the Bid opening shall not be considered further for evaluation, irrespective of the circumstances, in particular, any discount offered by a Bidder which is not read out at Bid opening shall not be considered further.
- x) If the bid opening is to be attended through the authorized representative then the bidders are advised to send in a representative fully aware with the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.
- xi) No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to 2.4.3 (i).
- xii) The Procuring Agency shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a withdrawal, substitution or modification, the Bid price if applicable.



- xii) The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the Bidders.
- xiii) A copy of the minutes of the Bid opening shall be provided to individual Bidders upon request.

2.5.2. Confidentiality

- i) Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report in accordance with the requirements of rule 37 of PPR-14.
- ii) Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its Bid.
- iii) Notwithstanding **ITB Clause 2.2.2** from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in electronic form that provides record of the content of communication.

2.5.3. Clarification of Bids

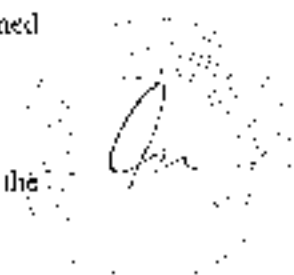
- i) As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid including breakdown of prices. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
- ii) The request for clarification and response shall be in writing that provide record of the content of communication. No change in the prices or substance of the bid shall be sought, offered, or permitted.
- iii) The alteration or modification in the Bid which in any way affect the following parameters will be considered as a change in the substance of a bid:
 - a) evaluation & qualification criteria;
 - b) Required scope of "Outsourcing of Solid Waste Management Services (Along with Available Resources) for Inset Tehsil Narae".
 - c) all securities requirements;
 - d) tax requirements;
 - e) Terms and conditions of bidding documents.
 - f) change in the ranking of the Bidder



- ix) From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so in writing or in electronic form that provide record of the content of communication

2.5.4. Preliminary Examination

- i) The Procuring Agency will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required securities have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order
- ii) Arithmetical errors will be rectified on the following basis:-
 - a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Service Provider does not accept the correction of the errors, its Bid may be rejected, and its Bid security may be forfeited.
 - b. If there is a discrepancy between words and figures, the amount in words will prevail
- iii) Pursuant to ITB Clause 2.5.5 prior to the detailed evaluation, the Procuring Agency will determine the substantial responsiveness of each Bid to the Bidding documents. For purposes of these Clauses, a substantially responsive Bid is one which conforms to all the terms and conditions of the Bidding Document without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning **Bid Security** (ITB Clause 2.3.7), **Applicable Law** (GCC Clause 26), **Taxes and Duties** (GCC Clause 28) & mandatory Registrations/ Renewals will be deemed to be a material deviation. The Procuring Agency's determination of a Bid's responsiveness shall be based on the contents of the Bid itself without recourse to extrinsic evidence.
- iv) If a Bid is not substantially responsive, it will be rejected by the Procuring Agency and shall not be allowed to subsequently be made responsive by the Bidder by correction of the non-conformity.
- v) Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:
 - a) meets the eligibility / evaluation criteria defined in ITB 2.1.3;
 - b) has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents,
 - c) has been properly signed,
 - d) is accompanied by the required securities; and
 - e) is substantially responsive to the requirements of the Bidding Documents.

A handwritten signature in black ink is written over a circular stamp. The stamp contains some illegible text and a central emblem, possibly a logo or official seal.

The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

**2.5.5. Examination
of Terms and
Conditions;
Technical
Evaluation**

- i) The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.
- ii) The Client's evaluation committee shall evaluate the Technical Bids/Proposals and on the basis of their responsiveness to the Terms of Reference/scope of services and the Bid Document, applying the evaluation criteria, sub-criteria, and point system if any specified in the Bid Data Sheet. Each responsive Bid/Proposal will be given a technical score, if any indicated in the data sheet. A Bid/Proposal shall be rejected at this stage if it does not respond to important aspects of the Bid document or if it fails to achieve the minimum technical score/Mandatory Evaluation Criteria, if any indicated in the Data Sheet.
- iii) The Procuring Agency shall evaluate the technical aspects of the Bid submitted to confirm that all requirements specified in **Section VII – Schedule of Requirements and Evaluation Criteria as provided in BDS**, have been met without material deviation or reservation.
- iv) After the technical evaluation is completed, the Client shall notify those Bidders/Service providers, whose Bids/Proposals were considered non-responsive to the bid document and TOR or did not meet the minimum qualifying technical score and their Financial Bids/Proposals will be returned unopened after completing the selection process and Contract signing. The Client shall simultaneously notify in writing those Bidders/Service providers that have achieved/qualified the minimum overall technical score/Mandatory evaluation criteria and inform them of the date, time and location for the opening of the financial bids/Proposals. The opening date should allow the Bidders/Service providers sufficient time to make arrangements for attending the financial bid opening. The Bidders/Service provider's attendance at the opening of the Financial Bids/Proposals (in person) is optional and is at the Bidders/Service provider's choice.
- v) The Financial Bids/Proposals shall be opened by the Client's Bid/evaluation committee in the presence of the representatives of those Service providers whose bids-proposals have passed the minimum technical score/mandatory criteria and who chose to be present.
- vi) If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that:



the Bid is not responsive in accordance, it shall reject the Bid.

2.5.6. Correction of Errors

- i) Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:-
 - a) if there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;
 - b) if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected, and
 - c) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
 - d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors
- ii) The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors. The concurrence of the Bidder shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with ITB 2.3.7.

2.5.7. Conversion to Single Currency

- i) As per rule 32(2) of PPR-14, to facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies in which the Bid prices as follows:

In terms of PPRA of Rules 2014 for the purposes of comparison of bids prices quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

2.5.8. Post-qualification & Evaluation of Bids

- i) In the absence of **prequalification**, the Procuring Agency will determine to its satisfaction whether the Bidder is qualified to perform the contract satisfactorily, in accordance with the evaluation criteria listed in BDS & pursuant to ITB Clause 2.1.3.
- ii) The determination will take into account the Bidder's financial, technical, and production/ supplying capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information required for eligibility/qualification.



expressed in Bid Data Sheet as the Procuring Agency deems necessary and appropriate.

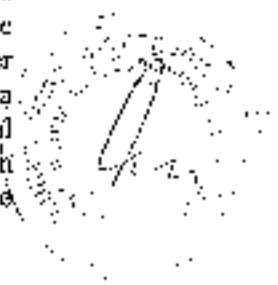
- ii) The Procuring Agency will **technically evaluate** and compare the Bids which have been determined to be substantially responsive, pursuant to ITB Clause 2.5.5.
- iii) The **financial evaluation** of a Bid will be on the basis of Total Bid Price for three years as quoted / offered by the bidder in Price Schedule / Financial Bid Form (F1 & F2) which must be inclusive of all prevailing taxes, duties along with observance of minimum wages, regulations as per labor laws and other obligations under the TORs / Scope of Services etc.

2.5.9. Contacting the Procuring Agency

- i) Subject to ITB Clause 2.5.3, no Bidder shall contact the Procuring Agency on any matter relating to its Bid, from the time of the Bid opening to the time the evaluation report is made public i.e. 10 days before the contract is awarded. If the Bidder wishes to bring additional information or has grievance to the notice of the Procuring Agency, it should do so in writing.
- ii) Any effort by a Bidder to influence the Procuring Agency during Bid evaluation, or Bid comparison may result in the rejection of the Bidder's Bid.

2.5.10. Grievance Redressal

- i) As per Rule-67 of PPR-14, Procuring Agency shall constitute an exclusive Grievance Redressed Committee (GRC) comprising of odd number of persons with proper powers and authorization to address the complaints. The Committee may preferably have one specialist depending upon the nature of the procurement in addition to one person with legal background.
- ii) Any Bidder feeling aggrieved can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the Bidding Document found contrary to provision of Rule 33, and the same shall be addressed by the GRC well before the proposal submission deadline.
- iii) Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the Bidding Document found contrary to provision of Rule 34 and the same shall be addressed by the GRC well before the proposal submission deadline.
- iv) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his Bid may lodge a written complaint concerning his grievances not later than ten days after the announcement of the Final evaluation reports. In case of single stage - two envelope bidding procedure any bidder feeling aggrieved from technical evaluation may file a grievance within 5 days of announcement of the technical evaluation report. After completion of the technical evaluation process, the procuring agency shall immediately upload the



technical evaluation report on the website at PPRCA for obtaining/ receiving grievance petitions from the prospective bidders (if any).

- v) In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report. Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelop bidding procedure is adopted.
- vi) The GRC shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

2.6. Award of Contract

2.6.1. Notification of Award

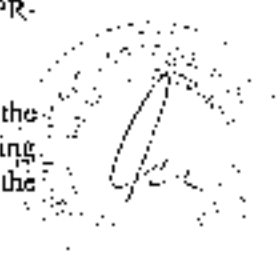
- i) Prior to the expiration of the period of Bid validity, the Procuring Agency will notify the successful Bidder in writing by registered letter or by email to be confirmed in writing by registered letter, that its Bid has been accepted.
- ii) The notification of award will constitute the formation of the Contract.
- iii) Upon the successful Bidder's furnishing of the Performance Guarantee, the Procuring Agency will promptly notify each unsuccessful Bidder and will discharge its Bid security, pursuant to ITB Clause 2.3.7.
- iv) The successful bidder will provide stamp papers as per stamp paper Act II of 1899 and as per requirement of Procuring Agency.

2.6.2. Performance Guarantee

- i) Within Fifteen (15) days of the receipt of notification of award from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in accordance with the Conditions of Contract, in the Performance Guarantee Form provided in the Bidding documents.
- ii) Failure of the successful Bidder to comply with the requirement of ITB Clause (i) above or ITB Clause 2.6.3 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security along with other remedies available under PPR-14. After that, the Procuring Agency may decide to award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new Bids keeping in view the concept of value for money as defined under rule-2(ac) read with Principles of Procurement as enunciated in rule-4 of PPR-14.

2.6.3. Signing of Contract/ Issuance of work Order

- i) At the same time as the Procuring Agency notifies the successful Bidder that its Bid has been accepted, the Procuring Agency will send the Bidder the Contract Form provided in the



Bidding documents, incorporating all Contracts between the parties.

- ii) Under rule-63 of PPR-14, where the Procuring Agency requires formal signing of contract, within Three (03) days of receipt of the Contract Form, the successful Bidder shall sign and mention date of the contract and return it to the Procuring Agency.
- iii) Where no such formal signing is required by the procuring agency, the procuring agency shall issue purchase order after the receipt of required performance guarantee, as per rule 55 of PPR-14.

2.6.4. Award Criteria

- i) Subject to ITB Clause 2.6.3, under rule-55 of PPR-14, the Procuring Agency will award the contract to the successful Bidder whose Bid has been determined to be substantially responsive and has been determined to be the lowest evaluated Bid, provided that the Bidder has been determined to be qualified to perform the contract satisfactorily.

2.6.5. Procuring Agency's Right to Vary Quantities at Time of Award

- i) The Procuring Agency within permissible rules may increase or decrease the scope of services / quantities of **Outsourcing of Solid Waste Management Services including Primary and Secondary Collection, Transportation and Disposal of Solid Waste to Dumpsite** Insert Tehsil Name.

2.6.6. Procuring Agency's Right to Accept or Reject All Bids

- i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders. However, the Authority (i.e. PPRA) may call from the Procuring Agency the justification of those grounds.
- ii) The Bidders shall be promptly informed about the rejection of the Bids, if any
- iii) The Procuring Agency shall upon its request communicate to any Bidder, the grounds for rejection of all Bids or proposal, but shall not be required to justify those grounds.

2.6.7. Re-Bidding

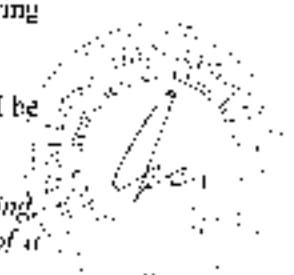
- i) If the Procuring Agency rejects all the Bids under rule 35, it may proceed with the process of fresh Bidding but before doing that it shall assess the reasons for rejection and may, if necessary, revise specifications, evaluation criteria or any other condition for Bidders.

2.6.8. Corrupt or Fraudulent Practices

- i) The Procuring Agency requires that Bidders, Service Providers, and Contractors observe the highest standard of ethics during the procurement and execution of contracts.

"Corrupt practices" in respect of procurement process, shall be as defined under in Section-2 (d) of PPRA, Act, 2009.

"(d) "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a



public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty, it may include any of the following:

- i. coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
- ii. collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
- iii. offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
- iv. any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- v. obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract; or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process."

II) **Blacklisting & Debarment:**

Blacklisted firms / bidders and those who have gone in the court against such order are not allowed to participate in bidding. If any bidder during the bidding process or the contractor after award of contract found involved any of the practice as defined & mentioned under section 2(d) of PPA Act 2009 read with Rule 20 and 21 of PPA Rules 2014 and schedule attached herewith shall be proceeded against as per aforementioned PPA Act/Rules.

Sub Requirements & Procedure for Blacklisting & Debarment:

S-17A of PPR, Act, 2009:

17A. Blacklisting. (1) A procuring agency may, for a specified period and in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor indulges in corrupt practice or any other prescribed practice

(2) The Managing Director may, in the prescribed manner debar a bidder or Contractor from participating in any public procurement process of all or some of the procuring agencies for a specified period.

(3) Any person aggrieved from a decision of a procuring agency may within prescribed period prefer a representation before the Managing Director.

(4) A procuring agency or any other person, aggrieved from a decision of the Managing Director, may within prescribed period prefer a representation before the Chairperson whose decision on such representation shall be final.]

As per rule 21 of PPR-14

21. Blacklisting.-(1) A procuring agency may, for a specified period, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor has:

(a) acted in a manner detrimental to the public interest or good practices;

(b) consistently failed to perform his obligation under the Contract;

(c) not performed the Contract up to the mark; or

(d) Indulged in any corrupt practice

(2) If a procuring agency debars a bidder or Contractor under sub-rule (1), the procuring agency:

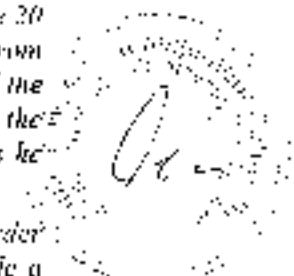
(a) shall forward the decision to the Authority for publication on the website of the Authority; and

(b) may request the Authority to debar the bidder or Contractor for procurement of all procuring agencies

(3) The Managing Director may debar a bidder or Contractor of any procuring agency from participating in any public procurement process of all or some of the procuring agencies for such period as the Managing Director may determine.

(4) Any person aggrieved by a declaration made under rule 20 or a decision under sub-rule (1) of this rule may, within thirty days from the date of the publication of the information on the website of the Authority, file a representation before the Managing Director and the Managing Director may pass such order on the representation as he may deem fit.

(5) Any person or procuring agency aggrieved by an order under sub rule (3) or (4) may, within thirty days of the order, file a



representation before the Chairperson and the Chairperson may pass such order on the representation as he may deem appropriate

(5) The mechanism or process for barring a bidder or Contractor from participating in procurement process of a procuring agency procuring agencies and a representation under this rule is specified in the Schedule appended to these rules

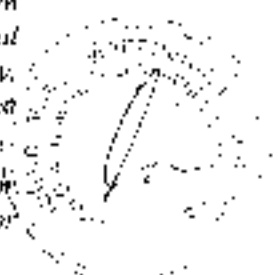
As per Schedule appended with PPR-14:

SCHEDULE

see sub-rule (6) of rule 21

BLACKLISTING MECHANISM OR PROCESS

1. The procuring agency may, on information received from any resource, issue show cause notice to a bidder or Contractor
2. The show cause notice shall contain:
 - (a) precise allegation, against the bidder or Contractor;
 - (b) the maximum period for which the procuring agency proposes to debar the bidder or Contractor from participating in any public procurement of the procuring agency; and
 - (c) The statement, if needed, about the intention of the procuring agency to make a request to the Authority for debarring the bidder or Contractor from participating in public procurements of all the procuring agencies
3. The procuring agency shall give minimum of seven days to the bidder or Contractor for submission of written reply of the show cause notice.
4. In case, the bidder or Contractor fails to submit written reply within the requisite time, the procuring agency may issue notice for personal hearing to the bidder or Contractor; authorize representative of the bidder or Contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if availed
5. In case the bidder or Contractor submits written reply of the show cause notice the procuring agency may decide to file the matter or direct issuance of a notice to the bidder or Contractor for personal hearing
6. The procuring agency shall give minimum of seven days to the bidder or Contractor for appearance before the specified officer of the procuring agency for personal hearing.
7. The procuring agency shall decide the matter on the basis of the available record and personal hearing of the bidder or Contractor, if availed
8. The procuring agency shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing
9. The procuring agency shall communicate to the bidder or Contractor the order of debarring the bidder or Contractor



from participating in any public procurement with a statement that the bidder or Contractor may, within thirty days, prefer a representation against the order before the Managing Director of the Authority.

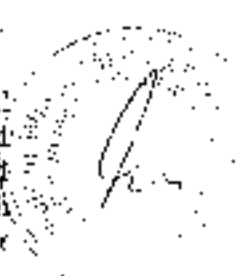
10. The procuring agency shall, as soon as possible, communicate the order of blacklisting to the Authority with the request to upload the information on its website.
 11. If the procuring agency wants the Authority to debar the bidder or Contractor from participating in any public procurement of all procuring agencies, the procuring agency shall specify reasons for such dispensation.
 12. The Authority shall immediately publish the information and decision of blacklisting on its website.
 13. In case of request of a procuring agency under para 11 or representation of any aggrieved person under rule 21, the Managing Director shall issue a notice for personal hearing to the parties and call for record of proceedings of blacklisting. The parties may file written statements and documents in support of their contentions.
 14. In case of representation of any aggrieved person or procuring agency under rule 21, the Chairperson shall issue a notice for personal hearing to the parties and may call for the record of the proceedings. The parties may file written statements and documents in support of their contentions.
 15. In every order of blacklisting under rule 21, the procuring agency shall record reasons of blacklisting and also reasons for short, long or medium period of blacklisting.
 16. The Authority shall upload all the decisions under rule 21, available with it, on its website. But the name of a bidder or Contractor shall immediately be removed from the list of blacklisted persons on expiry of period of blacklisting or order of the competent authority to that effect, whichever is earlier.
 17. An effort shall be made for electronic communication of all the notices and other documents pursuant to this mechanism or process."
- iii) Furthermore, Bidders must keep themselves aware of the provision stated in clause 5.4 and clause 24.F of the General Conditions of Contract.

2.6.9 Integrity Pact

- 2.6.9.1 Each Bidder shall sign and stamp the Bidding Form T2 (Form of Integrity Pact) provided in the Bidding Document (the "Integrity Pact"). Failure to provide such Integrity Pact may render the Bid non-responsive.

2.6.10 Insurance and Indemnification

- 2.6.10.1 If a Bidder is selected as the Successful Bidder, it will be presumed that it understands, undertakes and confirms all the terms & conditions pre-requisite and requirement of the project already conveyed through detailed bidding document and shall be responsible for

A circular official stamp of the Authority is located in the bottom right corner of the page. The text around the perimeter of the stamp is partially legible but appears to include "The Authority". A handwritten signature is written across the center of the stamp.

procuring the relevant insurances relating to the Bidder / contractor's Obligations, including those required under law and for their and arson of the vehicles and workers' insurance (other than any insurances which may be the responsibility of the Employer). All fees, costs and other expenditures relating to such insurances shall be borne by the Bidder / contractor.

2.6.10.2 Furthermore, the cost for insurances may be included in the Financial Proposal by the Bidders. The Bidders are required to specify all the insurances that typically required for the project of this nature including those specified in the Agreement.

2.6.10.3 The Bidder / contractor shall be responsible for safeguarding of work and workplaces and shall take all insurances required by pertinent legislations and submit the policies thereof to the Employer. The Bidder / contractor shall be responsible for any damages caused by its staff, personnel, assignees, Sub-Contractors etc. including staff outsourced/handed over by MWMC, in respect of work performed under the Agreement.

2.6.10.4 The Bidder / contractor shall indemnify the MWMC, its employees against all losses and claims in respect of

- I. Death or injury to any person, due to accident.
- II. Loss or damage to any vehicle, plant, property which may arise out of accident or public riot or in consequences of performing the Bidder / contractor's Obligations and against all claims, proceedings, damages, cost, charges and expenses, whatsoever in respect of or in relation thereto.
- III. Defects in Bidder / contractor's performance of the Bidder / contractor's Obligations.
- IV. Actions and omissions of the Sub-Contractor
- V. The Bidder / contractor shall be directly responsible for the choice or use of defective or non-compliant tools or machineries, deficiencies of performance in works and services, mistakes in sufficient supervision or any failure to incur other losses and damages which may occur due to similar reasons.



Section-III. Technical Specifications / TORs

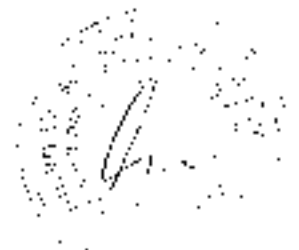
Scope of Services

Technical Specifications and Scope of Services are described as under;

1. DEMOGRAPHY	ERROR! BOOKMARK NOT DEFINED.	
3. WASTE STREAMS	ERROR! BOOKMARK NOT DEFINED.	
3.1.1. Municipal Solid Waste (MSW).....	..... Error! Bookmark not defined.
3.1.2. Bulk Waste (BW).....	..... Error! Bookmark not defined.
4. REQUIRED SWM OPERATIONS PLAN	ERROR! BOOKMARK NOT DEFINED.	
4.1. SCOPE OF SERVICES	ERROR! BOOKMARK NOT DEFINED.	
4.1.1. Proposed Model.....	..... Error! Bookmark not defined.
A. MECHANICAL SWEEPING (URBAN)	ERROR! BOOKMARK NOT DEFINED.	
4.1.1.1. Mechanical Sweeping & Recycling .....	..... Error! Bookmark not defined.
B. MANUAL SWEEPING & DE-SILTING	ERROR! BOOKMARK NOT DEFINED.	
C. PRIMARY WASTE COLLECTION	ERROR! BOOKMARK NOT DEFINED.	
i. Door to Door MSW Collection.....	..... Error! Bookmark not defined.
ii. Bulk Waste Collection.....	..... Error! Bookmark not defined.
D. TEMPORARY WASTE STORAGE	ERROR! BOOKMARK NOT DEFINED.	
i. Waste Enclosures (WE).....	..... Error! Bookmark not defined.
ii. Temporary Collection Points (TCPs).....	..... Error! Bookmark not defined.
E. SECONDARY WASTE COLLECTION	ERROR! BOOKMARK NOT DEFINED.	
F. WASTE DISPOSAL	ERROR! BOOKMARK NOT DEFINED.	
5. REQUIRED RESOURCES	ERROR! BOOKMARK NOT DEFINED.	
5.1. HUMAN RESOURCE.....	..... ERROR! BOOKMARK NOT DEFINED.
5.2. MACHINERY.....	..... ERROR! BOOKMARK NOT DEFINED.
5.3. TOOLS & EQUIPMENT.....	..... ERROR! BOOKMARK NOT DEFINED.
5.4. DISMISSE MACHINERY.....	..... ERROR! BOOKMARK NOT DEFINED.
NUMBER OF VEHICLES / MACHINERIES MAY BE CHANGED WITH THE PRIOR APPROVAL FROM BOARD OF DIRECTORS MWMC		
KEEPING IN VIEW THE SAME VOLUME / TRUCK CAPACITY ERROR! BOOKMARK NOT DEFINED.
6. COMPARISON	ERROR! BOOKMARK NOT DEFINED.	
6.1. HUMAN RESOURCE.....	..... ERROR! BOOKMARK NOT DEFINED.
6.2. MACHINERY.....	..... ERROR! BOOKMARK NOT DEFINED.
NUMBER OF VEHICLES / MACHINERIES MAY BE CHANGED WITH THE PRIOR APPROVAL FROM BOARD OF DIRECTORS MWMC		
KEEPING IN VIEW THE SAME VOLUME / TRUCK CAPACITY ERROR! BOOKMARK NOT DEFINED.
6.3. TOOLS & EQUIPMENT.....	..... ERROR! BOOKMARK NOT DEFINED.
7. SPECIAL SERVICES ON SPECIAL EVENTS	ERROR! BOOKMARK NOT DEFINED.	
8. OVERALL MONITORING OF OPERATIONS	ERROR! BOOKMARK NOT DEFINED.	
9. HUMAN RESOURCE MANAGEMENT	ERROR! BOOKMARK NOT DEFINED.	
10. COST ESTIMATES	ERROR! BOOKMARK NOT DEFINED.	
Note.....	..... Error! Bookmark not defined.
List of Abbreviations.....	..... Error! Bookmark not defined.
1. DEMOGRAPHY	ERROR! BOOKMARK NOT DEFINED.	
3. WASTE STREAMS	ERROR! BOOKMARK NOT DEFINED.	

3.1.1.	<u>Municipal Solid Waste (MSW)</u> .....	..Error! Bookmark not defined.
3.1.2.	<u>Bulk Waste (BW)</u> .....	..Error! Bookmark not defined.
4.	<u>REQUIRED SWM OPERATIONS PLAN</u> .....	..ERROR! BOOKMARK NOT DEFINED.
4.1.	<u>SCOPE OF SERVICES</u> .....	..ERROR! BOOKMARK NOT DEFINED.
4.2.	<u>Proposed Model</u> .....	..Error! Bookmark not defined.
A.	<u>MECHANICAL SWEEPING (URBAN)</u> .....	..ERROR! BOOKMARK NOT DEFINED.
4.2.1.	<u>Mechanical Sweeping & Scraping</u> .....	..Error! Bookmark not defined.
B.	<u>MANUAL SWEEPING & DE-SILTING</u> .....	..ERROR! BOOKMARK NOT DEFINED.
A.	<u>PRIMARY WASTE COLLECTION</u> .....	..ERROR! BOOKMARK NOT DEFINED.
i.	<u>Door to Door MSW Collection</u> .....	..Error! Bookmark not defined.
ii.	<u>Bulk Waste Collection</u> .....	..Error! Bookmark not defined.
D.	<u>TEMPORARY WASTE STORAGE</u> .....	..ERROR! BOOKMARK NOT DEFINED.
i.	<u>Waste Enclosures (WE)</u> .....	..Error! Bookmark not defined.
ii.	<u>Temporary Collection Point (TCP)</u> .....	..Error! Bookmark not defined.
E.	<u>SECONDARY WASTE COLLECTION</u> .....	..ERROR! BOOKMARK NOT DEFINED.
F.	<u>WASTE DISPOSAL</u> .....	..ERROR! BOOKMARK NOT DEFINED.
5.	<u>REQUIRED RESOURCES</u> .....	..ERROR! BOOKMARK NOT DEFINED.
5.1.	<u>HUMAN RESOURCE</u> .....	..ERROR! BOOKMARK NOT DEFINED.
5.2.	<u>MACHINERY</u> .....	..ERROR! BOOKMARK NOT DEFINED.
5.3.	<u>TOOLS & EQUIPMENT</u> .....	..ERROR! BOOKMARK NOT DEFINED.
NUMBER OF VEHICLES/MACHINERIES MAY BE CHANGED WITH THE PRIOR APPROVAL FROM BOARD OF DIRECTORS-MW/MC KEEPING IN VIEW THE SAME VOLUMETRIC CAPACITY.		
6.	<u>COMPARISON</u> .....	..ERROR! BOOKMARK NOT DEFINED.
6.1.	<u>HUMAN RESOURCE</u> .....	..ERROR! BOOKMARK NOT DEFINED.
6.2.	<u>MACHINERY</u> .....	..ERROR! BOOKMARK NOT DEFINED.
6.3.	<u>TOOLS & EQUIPMENT</u> .....	..ERROR! BOOKMARK NOT DEFINED.
7.	<u>SPECIAL SERVICES ON SPECIAL EVENTS</u> .....	..ERROR! BOOKMARK NOT DEFINED.
8.	<u>OVERALL MONITORING OF OPERATIONS</u> .....	..ERROR! BOOKMARK NOT DEFINED.
9.	<u>HUMAN RESOURCE MANAGEMENT</u> .....	..ERROR! BOOKMARK NOT DEFINED.
10.	<u>COST ESTIMATES</u> .....	..ERROR! BOOKMARK NOT DEFINED.
<i>Note</i>		
<i>List of Abbreviations</i>		
7.	<u>DEMOGRAPHY</u> .....	..ERROR! BOOKMARK NOT DEFINED.
9.	<u>WASTE STREAMS</u> .....	..ERROR! BOOKMARK NOT DEFINED.
9.1.1.	<u>Municipal Solid Waste (MSW)</u> .....	..Error! Bookmark not defined.
9.1.2.	<u>Bulk Waste (BW)</u> .....	..Error! Bookmark not defined.
10.	<u>REQUIRED SWM OPERATIONS PLAN</u> .....	..ERROR! BOOKMARK NOT DEFINED.
10.1.	<u>SCOPE OF SERVICES</u> .....	..ERROR! BOOKMARK NOT DEFINED.
10.2.	<u>Proposed Model</u> .....	..Error! Bookmark not defined.
C.	<u>MECHANICAL SWEEPING (URBAN)</u> .....	..ERROR! BOOKMARK NOT DEFINED.
10.2.1.	<u>Mechanical Sweeping & Scraping</u> .....	..Error! Bookmark not defined.
D.	<u>MANUAL SWEEPING & DE-SILTING</u> .....	..ERROR! BOOKMARK NOT DEFINED.
E.	<u>PRIMARY WASTE COLLECTION</u> .....	..ERROR! BOOKMARK NOT DEFINED.
iii.	<u>Door to Door MSW Collection</u> .....	..Error! Bookmark not defined.
iv.	<u>Bulk Waste Collection</u> .....	..Error! Bookmark not defined.
D.	<u>TEMPORARY WASTE STORAGE</u> .....	..ERROR! BOOKMARK NOT DEFINED.
ii.	<u>Waste Enclosures (WE)</u> .....	..Error! Bookmark not defined.

d. <u>Emergency Collection Points (TCPs)</u> .....	.....Error! Bookmark not defined.
11. <u>SECONDARY WASTE COLLECTION</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
1. <u>WASTE DISPOSAL</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
11. <u>REQUIRED RESOURCES</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
11.1. <u>HUMAN RESOURCE</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
11.2. <u>MACHINERY</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
11.3. <u>TOOLS & EQUIPMENT</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
NUMBER OF VEHICLES/MACHINERIES MAY BE CHANGED WITH THE PRIOR APPROVAL FROM BOARD OF DIRECTORS-MWMC	
KEEPING IN VIEW THE SAME VOLUMETRIC CAPACITY .....	.....ERROR! BOOKMARK NOT DEFINED.
12. <u>COMPARISON</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
12.1. <u>HUMAN RESOURCE</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
12.2. <u>MACHINERY</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
12.3. <u>TOOLS & EQUIPMENT</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
13. <u>SPECIAL SERVICES ON SPECIAL EVENTS</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
14. <u>OVERALL MONITORING OF OPERATIONS</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
15. <u>HUMAN RESOURCE MANAGEMENT</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
16. <u>COST ESTIMATES</u> .....	.....ERROR! BOOKMARK NOT DEFINED.
<i>Note:</i> .....	.....Error! Bookmark not defined.
17. <u>FEE COLLECTION BY CONTRACTOR</u> .....	.....33
18. <u>PUBLIC AWARENESS CAMPAIGN</u> .....	.....35





PROPOSED SOLID WASTE MANAGEMENT (SWM) OPERATIONS PLAN

FOR

District	<i><u>Khanewal</u></i>
Tehsil	<i><u>Khanewal</u></i>
LOT #	<i><u>1</u></i>

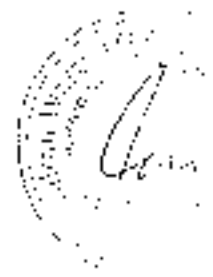


June, 2024

Multan Waste Management Company

List of Abbreviations

BW	Bulk Waste
DC	District Council
DD	Door to Door
DS	Dumpsite
HH	Household
KM	Kilo Meter
LGCD	Local Government & Community Development
MWMC	Mullian Waste Management Company
MC	Municipal Committee
MSW	Municipal Solid Waste
M³	Cubic Meter
SOP	Standard Operating Procedure
SWM	Solid Waste Management
SW	Sanitary Worker
TCP	Temporary Collection Point
UC	Union Council
WB	World Bank



1. Demography

The current Local Government and Community Development (L.G.C.D) division of Tehsil/District comprises a blend of Municipal Committees and the District Council. According to existing demarcations and regulations, the urban sector of the Tehsil consists of Municipal Committees, while the remaining areas fall under the jurisdiction of the District Council. Municipal Committees are organized into wards, whereas the District Council comprises Union Councils, encompassing villages, towns, and semi-urban areas within the Tehsil.

Presently, Tehsil Khanewal comprises MC Khanewal having 2 Urban and 33 Rural UCs. The main particulars of tehsil Khanewal is as follows:

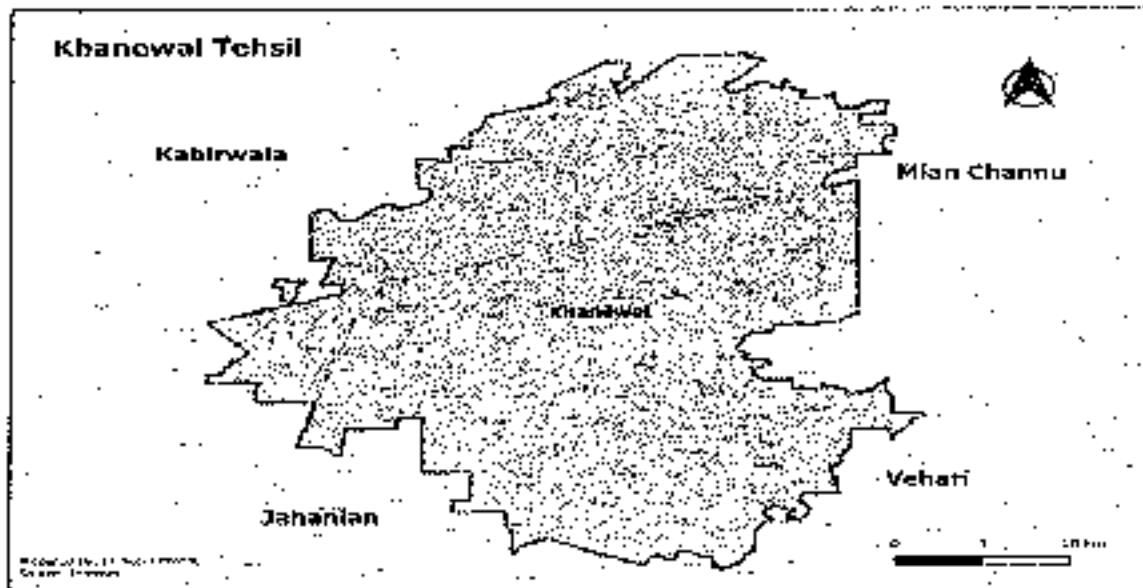
Table No. 1: Summary of Tehsil

Tehsil:	Khanewal
Municipal Committees	1
No. of Rural UCs	33
No of Urban UCs	2
No of Villages	155
Population of Tehsil (Census 2023):	997,936
Urban population:	227,685
Rural population:	770,251
Waste generation (Daily):	Urban (MCs): Approx. 118 Tons @ 0.51 kg / capita Rural (UCs): Approx. 278 Tons @ 0.31 kg / capita

Note: Waste generation is an estimated amount and it may vary (=) from the above mentioned amount. However, any approval regarding change in estimated waste generation will be sought from the Board of Directors/CEO, MWMC



Map of Tehsil Khanewal is attached below:



Map of Tehsil Khanewal

2. Existing Resources:

The lists / Annexures provided with Services And Assets Management Agreement (SAAMA) signed between MPMC and Tehsil's MCs and DCs is considered for existing resources assessment, given below in Table:

Human Resource				
Tehsil	Helper	Sanitary Supervisor	Sanitary Workers	Driver
Khanewal	10	0	156	0
Machinery				
Tehsil	Loader Rickshaw	Tractor Trolley	Tractor Loader	
Khanewal	6	8	3	
	Tractor Blade	Mechanical Sweeper	Compactor	
	2	1	4	
	Container Lifter Arm Roll	Mini Tipper	Dumper Truck	
	1	5	0	
	Water Bowzer			
	1			
Equipment				
Tehsil	Skips	Hand carts	Container 10 M3	
Khanewal	500	130	50	

3. Waste Streams

The solid waste being generated in any area is further divided into two streams i.e. Municipal Solid Waste (MSW) and Bulk Waste. Whereas, the total solid waste generation is calculated for urban areas is based on 0.51 kg per capita per day and for rural areas it's based on 0.31 kg per capita per day

3.1.1. Municipal Solid Waste (MSW)

Municipal solid waste (MSW), is a waste type consisting of everyday items that are discarded by the public, including items like food scraps, packaging materials, paper, plastics, glass, and other disposable items. For the MSW planning of the tehsil, 70% MSW generation in urban areas and 55% in rural areas, is assumed out of total waste generated.

3.1.2. Bulk Waste (BW)

Bulk Waste refers to the large quantities of waste that are too large or heavy to be collected through dedicated collection methods. Examples include construction debris, animal dung, and backlog mixed waste lying in open plots or open spaces anywhere in the tehsil. Proper collection of bulk waste typically requires special handling and collection procedures.

Below Table: Waste Generation Estimates

Parameter	Urban	Rural
Waste Generation Rate ¹	0.51 kg per capita per day	0.31 kg per capita per day
Municipal Solid Waste (MSW) Proportion ²	70%	55%
Bulk Waste (BW) Proportion ²	30%	45%

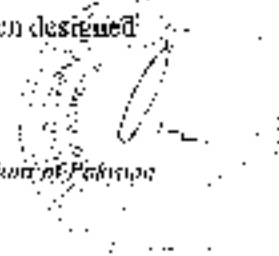
4. Required SWM Operations Plan

In order to properly plan the SWM system of an area, it's highly significant to understand the infrastructure, socio-economic conditions, development resources and topographical dynamics of that area. MWMC team visited each Municipal Committee and Union Council of the Tehsil to assess the requirements for proposed SWM system.

Various parameters have been collected from the discussion with concerned administrative officials and projected with the help of statistical models. The future system has been designed on the basis of

¹ ADB Report No: 209, March 2012, Waste Sector Inclusion in the Revised Nationality Development Contributions of Pakistan

² This proportion is agreed upon based on survey, feedback and discussion with the relevant Tehsil staff



- Population projection.
- Waste generation in these areas.
- Classification of SWM Services

Upon area handover, the contractor must adhere to the outlined responsibilities, which serve as guidelines and minimum requirements. The contractor is also responsible for delivering top-quality services governed by the contract document.

The contractor will provide uniforms, shoes and jackets to supervisors, sanitary workers, and helpers as per following details.

- Uniforms of approved design by the client Twice a year
- Shoes of approved design by the client Once a year
- Jackets of approved design by the client Twice a year

The contractor will ensure the availability of proper PPE's to their workforce. Fleet/Vehicles and containers will be branded and designed by the contractor on the approved design by the client.

The detailed scope of services and proposed model is given below:

4.1. Scope of Services

- i. Mechanical Sweeping and Washing (Urban)
 - i. Mechanical Sweeping & Scrapping
 - ii. Mechanical Washing
- ii. Manual Sweeping & De-silting
- iii. Primary Waste Collection
 - i. Door to Door MSW Collection
 - ii. Bulk Waste (BW) Collection
- iv. Temporary Waste Storage
 - i. Waste Enclosures
 - ii. Temporary Collection Points (TCP)
- v. Secondary Waste Collection
- vi. Waste Disposal
- vii. Zero Waste Activities
 - i. At the time of Tehsil takeover (once in the whole contract life)
 - ii. At least three to four times in a year or as per clients' requirement at different times.
- viii. Public awareness campaign as approved by the client.
- ix. Revenue Collection by contractor



4.2. Proposed Model

Urban Areas





Plumbers



Waste Recycle (Paper)



Sanitation

20%



Door to Door

80%



MSW

Composting



Waste Collection (Others)



Manual Sweeping - De-silting

Sampler (500) - 1.000kg



Transpiration



Bulk Waste

Sampler (500) - 1000 to 2000

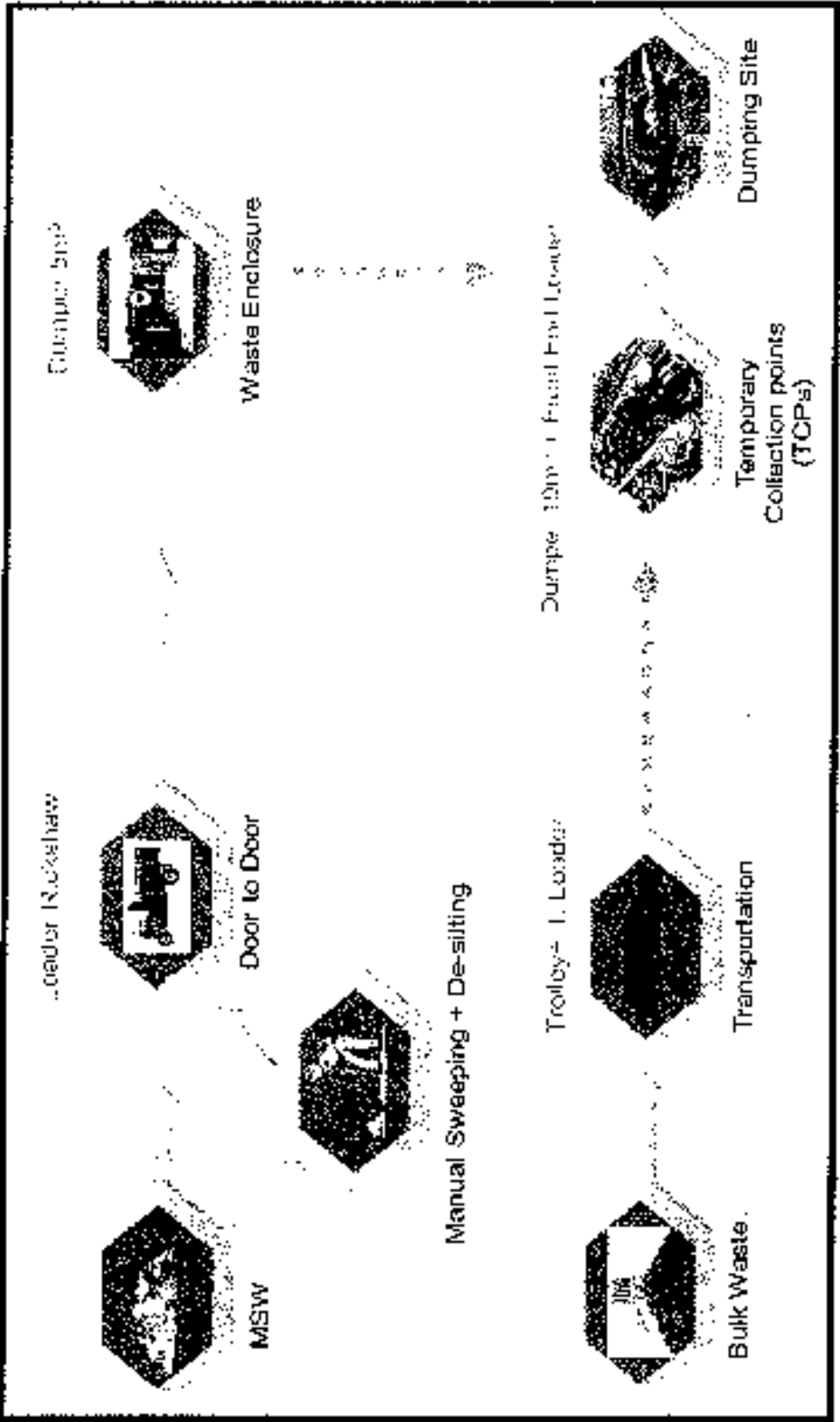


Temporary Collection points (TCPC)



Stumping Site





Am

A. Mechanical Sweeping (Urban)

4.2.1. Mechanical Sweeping & Scraping

Mechanical sweeping, especially can remove dust and rubbish simultaneously, a task not possible with manual sweeping alone. While manual sweepers clear litter from pavements and grass, technical limitations and street obstacles like parked cars mean mechanical cleaning is most efficient alongside manual cleaning. Improved sweeping machines are now quieter, more economical, and meet emission standards, reducing the need for general personnel and allowing for more specialized roles like drivers and street sweepers.

It is proposed to clear the major roads of the tehsil through 06 Tractor Mounted sweepers to improve the working efficiency as well as the cleanliness standards of the tehsil.

ii. Water Sprinkling

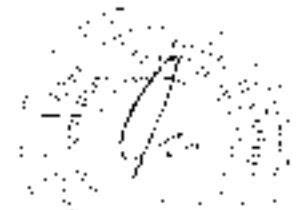
Water Sprinkling is another importance component of waste management system where, public places, major roads, dividers, walkways are washed to improve the cleanliness impact. It is proposed to wash / sprinkle the major roads as specified by the client (min. 05 KM daily per 01 tractor mounted water bowser / washer), walkways of the tehsil through washer to improve the working efficiency as well as the cleanliness standards of the tehsil.

Table 1 Kind of Resources Required for Mech. Sweeping and Washing

Resources	Urban	Rural
Helpers	✓	✓
Drivers	✓	✓
Tractor Mounted Bowser	✓	✓
Tractor Mounted Sweepers	✓	✓

Table 2 Main Parameters for the Mech. Sweeping and Washing Activity

Parameter	Urban
Helpers	1 per Tractor Mounted Bowser 1 per Tractor Sweeper
Drivers	1 per Tractor Mounted Bowser 1 per Tractor Sweeper
Tractor Mounted Bowser	1 for 8 UC's 6 hours a day
Tractor Mounted Mechanical Sweepers	1 per 8 UC's 6 hours a day
Frequency	Daily



Contractor's Responsibility:

- Identification of the roads for mechanical sweeping and sprinkling
- Formulation of the teams for mechanical sweeping and sprinkling
- Formulation of the schedule for mechanical sweeping and sprinkling - Micro planning
- Deployment of resources as designed
- To arrange water sources for mechanical sprinkling
- To train and guide the helpers and drivers on complete mechanical sweeping and sprinkling mechanism
- To ensure adequate mechanical sweeping and sprinkling as per given resources, mechanism and design parameters

B. Manual Sweeping & De-silting

For major roads and inner streets cleaning in the tehsil, manual sweeping will be ensured. Moreover, Open drains are present in the urban area of tehsil, which needs regular de-silting to avoid any clogging of drains.

Mechanism:

Manual Sweeping: A dedicated team of sanitary workers with handcarts will be deployed to ensure proper manual sweeping and de-silting of the tertiary drains (i.e. up to 2 feet wide open) in the given areas. Manual sweeping of residential areas will be done as per the client's specified frequency. Meanwhile, commercial areas, both rural and urban of whole tehsil, will be swept daily. This activity will be monitored by the client through their digital monitoring system and staff.

The dedicated teams will engage in manual sweeping where infrastructure is present, such as metalled roads, rigid pavements & tuff paved streets etc. The workers will make small heaps of the collected waste on roads or streets sides and then collect the waste and dump in the nearby container.

De-silting: These dedicated teams (gangs) of sanitary workers will also perform de-silting of tertiary drains (up to 2 feet wide / open) and collect waste from water channels. This silt will then be collected through hand carts and will be unloaded into nearby container or mini dumpers.

Moreover, a drain cleaner will be also being deputed in each tehsil for drain cleanliness purposes.

Below Table: Kind of Resources Required for the Manual Sweeping and Desilting

<u>Resources</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers	✓	✓
Hand Carts	✓	✓
Brooms	✓	✓
De-silting tools and buckets to extract and carry the silt	✓	✓

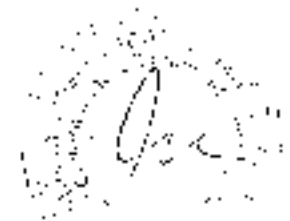


Below Table: Main Parameters for the Manual Sweeping and Desilting Activity

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers (SW)	1 SW per 200 HH	1 SW per 250 HH
Hand Carts	1 per 2 SW	1 per 4 SW
Frequency (Residential areas)	Twice a Week	Twice a Week
Frequency (Commercial areas)	Daily	Daily
Drain Cleaner	1 Per Tehsil	
Sucker Machine	1 Per Tehsil	

Contractor's Responsibility:

- Identification of the roads and streets for manual sweeping
- Identification of the drains for de-silting
- Formulation of the beats and respective teams of sanitary workers for manual sweeping and de-silting
- Formation of the schedule for sanitary workers - Micro-planning
- Provision of resources
- To train and guide the sanitary worker on complete manual sweeping and de-silting mechanism
- To ensure 100% Manual sweeping and de-silting as per given targets, resources, mechanism and assumptions



C. Primary Waste Collection

i. Door to Door MSW Collection

Mechanism:

For residential and commercial areas, 100% door to door (DtD) waste collection is proposed to ensure maximum cleanliness in the area.

Urban: For the DtD services, the waste collection is divided in to two equal modes i.e. Handcart (40%) and Loader rickshaw based (60%).

50% of these workers will be given handcarts which will further be emptied in nearby container/TCP.

Whereas, for remaining 50% workers the Loader Rickshaw will be given for door to door collection. These rickshaws will be emptied at TCP

Rural: For the DtD services, the waste collection is divided in to two equal modes i.e. Handcart (25%) and Loader rickshaw based (75%)



Handwritten signature and official stamp of the Municipal Corporation, Jaipur.

Below Table: Kind of Resources Required for the Door to Door Collection

<u>Resource</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers	✓	✓
Helpers/Baidar		✓
Drivers	✓	✓
Hand carts		✓
Loader Rickshaw	✓	✓

Below Table: Main Parameters for the Door to Door Activity

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Door to door collection	100%	100%
Sanitary Workers	1 SW per 200 Households	1 per 250 Hr
Drivers	1 per Loader Rickshaw	1 per Loader Rickshaw
Hand carts	1 per 2 SW	1 per 4 SW
Skips(0.8m ³) (Existing)	1 time lifting	-
Loader Rickshaw	Capacity 500 kg 4 trips daily 3 to 4 trips to TCP	Capacity 500 kg 4 trips daily
Compactors (Existing)		
Waste collection Frequency	Daily	Daily
Waste availability	Readily available at doorstep	Readily available at doorstep

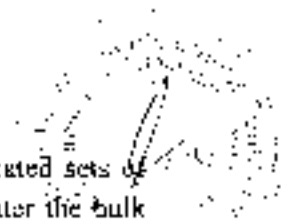
Contractor's Responsibility:

1. Formulation of the beats and respective teams of sanitary workers
2. Formation of the schedule for sanitary workers - Micro planning
3. Provision of resources
4. To train and guide the sanitary worker on complete D/D mechanism
5. To ensure 100% D/D services as per given targets, resources, mechanism and assumptions

ii. Bulk Waste Collection

Mechanism:

Urban: Bulk waste (30% of total waste) will be lifted by Dedicated sets of Tractor/Loader and Trolley will be deployed in each tehsil to cater the bulk



waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dunghills, hotspots, debris etc. These Loader squads will directly be unloaded into the nearby TCPs of the tehsil, for further disposal.

Rural: Bulk waste (45% of total waste) will be lifted by using Tractor Trolleys and Tractor Loaders. Dedicated sets of Tractor Loader and Trolleys will be deployed in each tehsil to cater the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dunghills, hotspots, debris etc. These Trolleys will directly be unloaded into the nearby TCPs of the tehsil, for further disposal.

Below Table: Kind of Resources Required for the Bulk Waste Collection

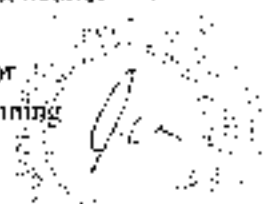
Resources	Urban	Rural
Drivers	✓	✓
Helper/Baidar	✓	✓
Tractor Loaders	✓	✓
Tractor Trolleys	✓	✓

Below Table: Main Parameters for the Bulk Waste Collection Activity

Parameter	Urban	Rural
Bulk Waste	30% of total waste	45% of total waste
Drivers	1 per Tractor Loader 1 per Tractor Trolley	1 per Tractor Loader 1 per Tractor Trolley
Helper/Baidar	1 per Tractor Loader	1 per Tractor Loader
Tractor Loader	1 per 3 Tractor Trolley	1 per 3 Tractor Trolley
Tractor Trolley	Capacity 3 tons 3-4 trips	Capacity 3 tons 3-4 trips
Frequency	Daily (as per schedule)	Daily (as per schedule)

Contractor's Responsibility:

- Identification of open plots, heaps, dunghills, hotspots, debris, and illegal dumping points.
- Formation of the schedule for the machinery sets for clearance of bulk waste on regular basis – Micro-planning
- Provision of resources



- To train and guide the sanitary worker on complete bulk waste clearance
 - To ensure 100% bulk waste clearance as per given targets, resources, mechanism and assumptions

D. Temporary Waste Storage

ii. Waste Enclosures (WE)

For rural areas Waste Enclosures are proposed to unload the Loader Rickshaws that are carrying door to door collected waste. These Waste enclosures will not only save the transportation time but will also save the cost of trips of Rickshaws. The machinery at Waste Enclosure is proposed on tennage lifting basis

Below Table: Main Parameters Required for Establishment of Waste Enclosures & Removal of Waste Activity from Enclosures

<u>Parameter</u>	<u>Rural</u>
Number of Enclosure	3-5 Enclosure per UC
Clearance frequency	twice a week
Area	7 – 10 Maras
Specifications	RCC flooring Precast Planks

Contractor's Responsibility:

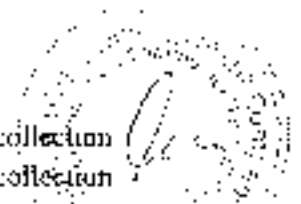
1. Identification of sites for establishment of Waste Enclosures (WEs)
2. Formulation of specifications of the WEs and their approval from concerned client and authorities
3. Establishment of WEs as per designed number and as per approved / agreed specifications

iii. Temporary Collection Points (TCPs)

The further the ultimate disposal site is from the collection area, the greater the savings that can be realized from use of a Temporary Collection Point (TCP). The minimum distance at which use of a TCP becomes economical depends on local economic conditions.

Mechanism:

The MSW and BW collected from entire tehsil through different collection modes and machinery will ultimately be collected at the Temporary collection



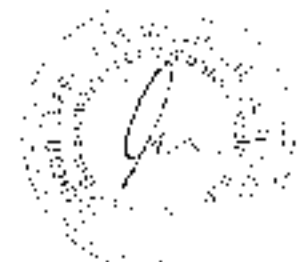
points (TCPs). Waste collection vehicles will temporarily dump waste at TCPs from where it will be transported to dumpsite for controlled disposal on daily basis. The TCPs will be established in the rural as per requirement. The TCPs to be designed to cater at least 100 to 150 tons of solid waste on an areas measuring 1 to 2 Kanals. The complete management of TCPs as per standard practices from establishment to clearance and maintenance would the responsibility of respective contractor.

Below Table: Main Parameters for Establishment of TCPs & Removal of Waste from TCPs

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Number of TCPs	As per distance / requirement	As per distance / requirement
Areas	1-2 Kanals	1-2 Kanals
Distance	10KM Max.	15KM Max.
Capacity	100 to 150 tons	100 to 150 tons
Specifications	RCC flooring Precast Planks	RCC flooring Precast Planks
Clearance Frequency	Daily	Twice a week

Contractor's Responsibility:

1. Formulation of specifications of the TCPs and their approval from concerned client and authorities
2. Establishment of TCPs as per designed number and as per approved / agreed specifications



E. Secondary Waste Collection

Secondary Waste collection refers to transportation of waste from Temporary Collection Point (TCP)/WEs to disposal site. For the said secondary waste collection purposes dedicated machinery sets Dumpers 10m³ and Front End Loaders are deployed at each TCP/WEs. The TCPs are cleaned on daily basis to ensure Zero waste.

Below Table: Main Parameters Required for Establishment of TCPs

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Drivers	1 per Dumper 10m ³ 1 per Front End Loader	1 per Dumper 10m ³ 1 per Front End Loader
Dumpers 10m³	Capacity 8 tons 5 trips to DS	Capacity 8 tons 5 trips to DS
Dumpers 5m³		Capacity 4 tons 5 trips to DS
Front End Loader	1 per 3 Dumpers 10m ³	1 per 3 Dumpers 10m ³
TCP clearance Frequency	Daily	Thrice a week

Contractor's Responsibility:

- Deployment of resources as designed
- TCPS management and maintenance on regular basis
- To ensure waste clearance from TCPs as per given targets, resources, mechanism and assumptions

F. Waste Disposal

The contractor will establish a controlled dumpsite including Weigh Bridge with all its allied facilities of civil works & H equipment's to minimize environmental and health hazards. A 3-feet thick clay lining will be installed on the foundation/embankment with a slope specified by the client based on existing ground conditions. The clay lining will have an acceptable permeability limit. The embankment will be designed to allow leachate to flow by gravity to a designated collection point. This leachate will be collected with a gully sucker and regularly sprinkled on access roads and waste. Furthermore, fencing for access control, daily soil covering to prevent waste spread, pests, scavenging, and fires, with staff and machinery to ensure proper waste handling. The List of resources is tabulated below. Moreover, the contractor will establish a

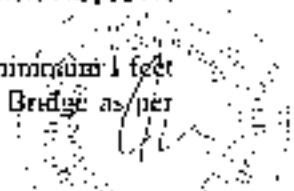
controlled dumping site until then, the contractor will arrange make shift arrangements for waste dumping / disposal.

Below Table Kind of Resources Required for Centroece Dumpsite

Design Area	Acres	10 Acres
Design Life	Years	7 Years
Pit less Weigh Bridge & its allied facilities	30 feet X 10 feet	Pit less weigh bridge as per client approved specifications with all its related civil works i.e. operator room, rigid pavements & allied IT equipment's
Machinery	Front End Loader Dumpers (10 m ³)	1 Front End Loader for waste spreading, compaction, and soil loading 1 Dumper for soil transportation and Backlog removal.
Working Hours	240 Hours	8 hours per day based on daily tonnage
Human Resource	Supervisors Helper Driver	1 1 2

Contractor's Responsibility: Installation of Weigh Bridge and allied facilities

- Establishment of dumpsite as per approved designed standards by the client.
- The contractor will establish a pit-less weighbridge of size 30 feet x 10 feet (30' x 10'), including its supporting structure made of steel with a size of 600 x 200mm x 9 feet 6 inches.
- The cross girder (26 No.) will consist of I-beam, measuring 200 x 100mm x 9 feet 6 inches
- The supporting girders (02 No.) will be 200 x 100mm x 9 feet 6 inches, incorporating an MS plate of 12mm plate (30 x 10) feet
- Load cell (04 No.) with 40 tons' capacity each.
- Junction box (01 No.) compatible.
- The weighbridge will have a lane size of 30 x 10 feet and a weighing capacity of 60 tons.
- All necessary accessories will be included, and fitting installations will be completed as part of the job. RFID System (complete trunk key solution), IP Cameras, UPS & Generator, Controller, Desktop Computer, AC, AVR (Automatic Voltage regulator) etc.
- Rigid pavements (RCC slab, compacted base course etc.) of minimum 1 feet thickness & length approx. 15 feet on each side of Weigh Bridge as per client approved designed.



- Additionally, the contractor will establish an operator room with a minimum size of 20 x 12 feet, incorporating all necessary facilities such as a toilet, kitchen as per approved designed by client.
- Contractor will build security guard room on top of operator room as per approved designed by the client.
- Weigh bridge control will be in the custody of client i.e. MWMCC. Contractor will only establish and maintain R&M related works.
 - Contractor will deploy resources as per client designed criteria.
 - Dumpsite management and maintenance on regular basis as per designed criteria
 - Leveling, compacting and Soil Covering & sprinkling of collected leachate or dumped waste.

G. Zero Waste Activities

The contractor will conduct at least following zero waste activities:

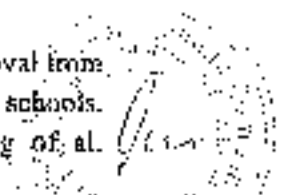
- i At the time of Tehsil takeover (Once in the whole contract life)
 - ii At least three to four times in a year or as per clients' requirement at different times done within scope of work.
- ***One Time Cleaning and Rehabilitation/Reclamation of Existing Dump site:***
 - Client may ask to contractor to perform one time cleaning activity for removal of all backlog of waste present in the area identified by the contractor for the approval of the client. For the said activity the contractor will identify the hotspots carrying backlog waste, including upon plots, open heaps, depressions etc. along with the coordinates. The contractor will get the list of these identified hotspots approved from the client and will get them clear accordingly.
 - Client may ask to contractor for rehabilitation/reclaiming of existing dumpsite with proposed mechanism identified by the client. The prices of the above two activities will be decided by the client and contractor and intimated to the contractor after the approval of the BOD of Client.
 - In the future, if GOPb establishes MRFs in the respective Tehsils, the contractor may be asked to segregate waste at TCPs. Further, its transportation to the MRF's. Payment for this additional work will be made later, subject to the approval of the client's BOD as per contract.

H. Revenue Collection

Contractor will be responsible for revenue collection in entire tehsil. Detailed mechanism of revenue collection is explained in sub heading I.

I. Public Awareness Campaign

The contractor's plan will include a public awareness campaign, subject to prior approval from the client. The contractor will submit a detailed micro plan for the campaign, covering schools, residential areas, and commercial areas. Contractor will ensure proper branding of all



containers, hand carts, waste drums and operational fleet as per the design / specimen approved by the client.

5. Required Resources

5.1. Human Resource

Table Required HR

Sr. #	Description	Urban	Rural	Dump Site	Total
1	Sanitary Workers	190	514	0	703
2	Sanitary Supervisors	2	33	1	36
3	Helpers	12	149	1	162
4	Drivers	19	174	2	195
	Total	223	870	4	1096

5.2. Machinery

Table Required Machinery

Sr. #	Type of vehicles	Urban	Rural	Total
1	Loader Rickshaw	8	132	140
2	Tractor Loader	1	5	6
3	Tractor Trolley	3	15	18
4	Tractor Loader 4 Wheels	1	2	3
5	Dumper Truck 10m ³	3	3	6
6	Dumper Truck 5m ³	0	3	3
7	Mechanical Sweeper	1	4	5
8	Tractor Blade	1	4	5
9	Tractor mounted Water Bowser	1	4	5
10	Sucker Machine	0	1	1
11	Drain Cleaner	0	1	1



Total	19	174	193
-------	----	-----	-----

5.3. Tools & Equipment

Table 3 Required Tools & Equipment

Tools & Equipment			
Description	Urban	Rural	Total
Hand Carts	95	128	223
Skips			
Containers 10m ³			
Containers 5m ³			
Total	95	128	223

5.4. Dumpsite Machinery

Table Required Machinery for Dumpsite

Sr. #	Description	Total
1	Dumper (10m ³)	1
2	Front End Loader	1
	Total	2

Number of vehicles / machines may be changed with the prior approval from Board of Directors-MWMC keeping in view the same volumetric capacity

6. Comparison

6.1. Human Resource

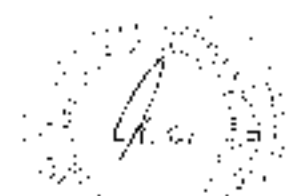
Table 4 Comparison of HR

HR				
Sr. #	Description	Existing	Required	Difference
1	Workers Sanitary	156	703	547
2	Supervisor Sanitary	0	36	36
3	Drivers	0	195	195
4	Helper/Hailcar	10	162	152
	Total	166	1096	930

6.2. Machinery

Table 5 Comparison of Machinery

Machinery (excluding Landfill Machinery)			
Type of Vehicles	Existing	Proposed	Difference
Loader Rickshaw	5	140	134
Tractor Loader	3	6	3
Tractor Trolley	8	18	10
Tractor loader 4 wheels	0	2	2



Dumper Truck 10m3	0	7	7
Dumper Truck 5m3		1	3
Mechanical Sweeper	1	3	4
Tractor Blade	2	3	2
Tractor mounted Water Bowser	1	3	4
Sucker Machine		1	1
Drain Cleaner		1	1
Container Lifter Arm Bot	0		
Mini Tipper	3		
Compactor	4		
Total	30	195	174

6.3. Tools & Equipment

Table 6 Comparison of Tools & equipment

Tools & Equipment			
Description	Existing	Proposed	Difference
Hand Carts	130	273	93
Shovels	300		
Containers 10m3	50		
Containers 7m3	0		
Containers 4m3	0		
Brooms		2192	
Lime		456	
Uniform		2192	
Masks		2192	
Gloves		2192	
TCP Cost	3	3	3
Dumping Mgt Cost			1
Monitoring Cost		1	1
Public Awareness		1	1
Total	480		



7. Special services on Special Events

The contractor will ensure special cleanliness services and availability of requisite resources for special events including:

- Eid-ul-Fitr
- Ramadan
- Eid-ul-Adha
- Muharram
- Eid Milad-ur-Nabi
- Christmas
- Any other event or emergency

The contractor will prepare proper SWM plan prior to each event for execution accordingly. The SWM plan should cover:

- Standard Operating Procedure (SOPs)
- Hotspots as per the event
- Resources Required

8. Overall Monitoring of Operations

The client will develop a digital monitoring system, which will be used for measuring work progress for quality assurance and payment purposes. The Digital Monitoring System will report on predefined Key Performance Indicators (KPIs). It will be IT-based and include field monitoring by the client's supervisory team, village/ward committee notified by the client (VTMS/Digital Monitoring Mechanism).

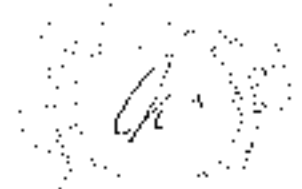
Moreover, *Work Satisfaction Stakeholder Committee (Village/Ward Committee)* will also be constituted. The committee will consist of representatives from the public, who will be asked to report on the work satisfaction from the public perspective and can be linked with the payment mechanism. The Stakeholder Committee will be formulated by the client, and its members will be decided within a reasonable time from the contract signing. The role of the committee is purely voluntary and will not supersede the management's opinions.

Further, the client will also nominate its committee to resolve any disputes regarding work verification.

In the case of the digital monitoring system being non-functional, the payment will be processed based on the submission of a verification report by the monitoring team of the client clearly based on the performance indicators.

9. Human Resource Management

For overall execution of Operations as per plan and its supervision, Sanitary Supervisors are proposed for the overall SMW management. One Supervisor is proposed for 25 Sanitary Workers in both Urban and Rural areas. Administration cost (2% of the operations cost) is included in the project cost.



10. Cost Estimates

Waste Collection (Tons per Day)	355
Annual Estimated Cost (Rs. in Millions)	1405.31
Cost per Ton (Rs.)	396
Cost per Capita per Month (Rs.)	18.57

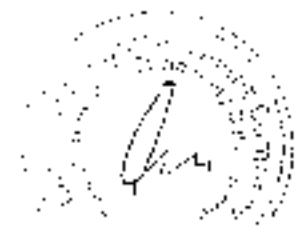
Note: The rental value of the machinery includes depreciation, R&M, and a 15% profit. However, depreciation is calculated over 5 years with a 15% residual asset value.

Note:

- Life of 8m³ containers 3 Years
- Life of 5m³ containers 3 years
- HR Cost is tabulated below;

Particulars	HR Cost / Employee / Month
Sanitary workers	41.440
Supervisors	44.620
Helpers	41.440
Drivers	44.620

- HR cost includes salary, social security, EOB and GLI
- HR cost of existing staff is not included in cost estimates. Only the deficit staff HR cost included in Cost estimates.
- Total cost including of all taxes
- Escalation factor based on minimum wage of PKR 37,000/month as on July 04, 2024
- Escalation factor based on high speed diesel price of PKR 277.45 per liter as per PSO as on July 04, 2024
- 3% of operational cost per year is included for special events/ Eid Ul Azha/zero waste activity
- 1% of operational cost per year is included as contingency.
- Rental cost of existing resources not included in cost estimates
- Fitness certificate & emission reports from transport department will be mandatory for rented vehicles
- Cost of Temporary collection points and waste enclosures is included in cost estimates
- Janitorial material (broom, lime etc.), PPE (masks, Gloves etc.), uniforms Hand carts cost included in cost estimates
- Cost of PKR 200,000/- per month for public awareness also included in cost estimates
- Hand cart life 1 year.
- Cost estimates are based on 26 working days in a month
- Monitoring cost of PKR 800,000/- per month (annual PKR 9,600,000/-) included in cost estimates which will be recovered from the contractor after implementation
- All waste carrying/transportation vehicle should be covered properly to avoid littering
- Required machinery and HR is estimated based on the population and waste generation, for evaluation purpose.



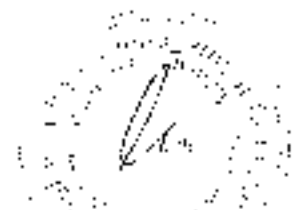


**PROPOSED SOLID WASTE
MANAGEMENT (SWM) OPERATIONS PLAN
FOR**

District	<i>Khanewal</i>
Tehsil	<i>Kabirwala</i>
LOT#	<u>2</u>

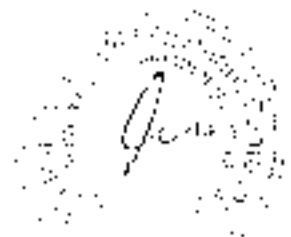


June, 2024
Multan Waste Management Company



List of Abbreviations

BW	Bulk Waste
DC	District Council
DtD	Door to Door
DS	Dumpsite
HH	Household
KM	Kilo Meter
LGCD	Local Government & Community Development
MWMC	Mulraj Waste Management Company
MC	Municipal Committee
MSW	Municipal Solid Waste
M³	Cubic Meter
SOP	Standard Operating Procedure
SWM	Solid Waste Management
SW	Sanitary Worker
TCP	Temporary Collection Point
UC	Union Council
WB	World Bank



1. Demography

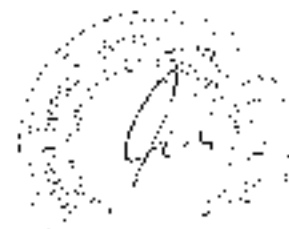
The current Local Government and Community Development (LGCD) division of Tehsil/District comprises a blend of Municipal Committees and the District Council. According to existing demarcations and regulations, the urban sector of the Tehsil consists of Municipal Committees, while the remaining areas fall under the jurisdiction of the District Council. Municipal Committees are organized into wards, whereas the District Council comprises Union Councils, encompassing villages, towns, and semi-urban areas within the Tehsil.

Presently, Tehsil Kabirwala comprises MC Kabirwala having 1 Urban and 45 Rural UCs. The main particulars of tehsil Kabirwala is as follows:

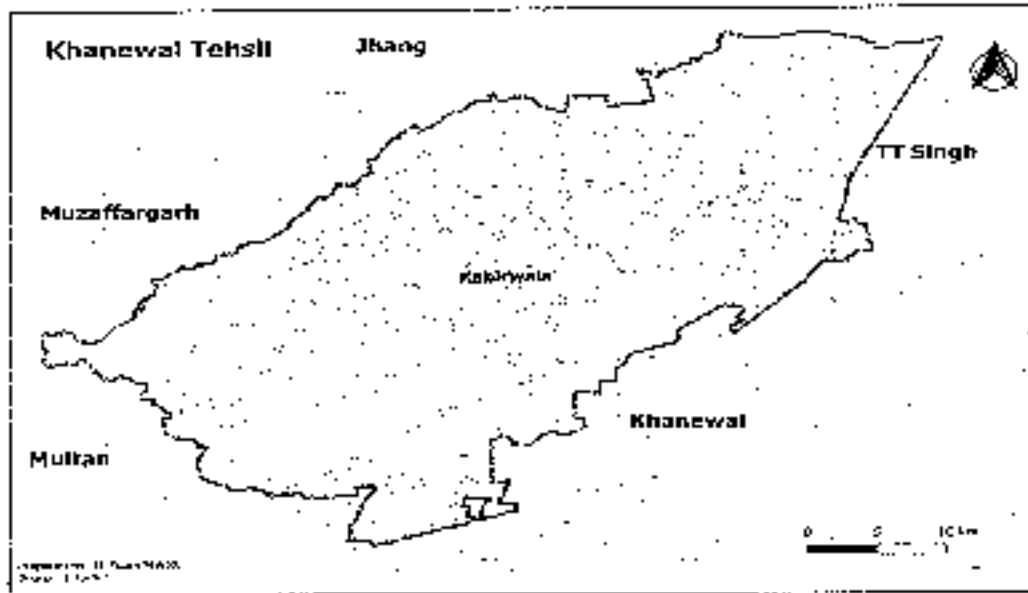
Table No. 1: Summary of Tehsil

Tehsil:	Kabirwala
Municipal Committees	1
No. of Rural UCs	45
No of Urban UCs	1
No of Villages	260
Population of Tehsil (Census 2023):	1,136,952
Urban population:	62,000
Rural population:	1,074,952
Waste generation (Daily):	Urban (MCs): Approx. 118 Tons @ 0.51 kg / capita Rural (UCs): Approx. 278 Tons @ 0.31 kg / capita

Note: Waste generation is an estimated amount and it may vary (±) from the above mentioned amount. However, any approval regarding change in estimated waste generation will be sought from the Board of Directors/CEO, MWMC



Map of Tehsil Kabirwala is attached below:



Map of Tehsil Kabirwala

2. Existing Resources:

The lists / Annexures provided with Services And Assets Management Agreement (SAAMA) signed between MWMC and Tehsil's MCs and DCs is considered for existing resources assessment, given below in Table:

Human Resource				
Tehsil	Helper	Sanitary Supervisor	Sanitary Workers	Driver
Kabirwala	0	0	27	1
Machinery				
Tehsil	Loader/Rikshaw	Tractor Trolley	Tractor Loader	
Kabirwala	5	2	1	
	Tractor Blade	Mechanical Sweeper	Compactor	
	1	0	0	
	Container Lifter Arm Roll	Mini Tipper	Dumper Truck	
	0	0	0	
	Water Bowzer			
0				
Equipment				
Tehsil	Skips	Hand carts	Container 10 M3	
Kabirwala	0	6	0	



3. Waste Streams

The solid waste being generated in any area is further divided into two streams i.e. Municipal Solid Waste (MSW) and Bulk Waste. Whereas, the total solid waste generation is calculated for urban areas is based on 0.51 kg per capita per day and for rural areas it's based on 0.31 kg per capita per day.

3.1.1. Municipal Solid Waste (MSW)

Municipal solid waste (MSW), is a waste type consisting of everyday items that are discarded by the public, including items like food scraps, packaging materials, paper, plastics, glass, and other disposable items. For the SWM planning of the tehsil, 70% MSW generation in urban areas and 55% in rural areas, is assumed part of total waste generated.

3.1.2. Bulk Waste (BW)

Bulk Waste refers to the large quantities of waste that are too large or heavy to be collected through dedicated collection methods. Examples include construction debris, animal dung, and hocklog mixed waste lying in open plots or open spaces anywhere in the tehsil. Proper collection of bulk waste typically requires special handling and collection procedures.

Below Table. Waste Generation Estimates

Parameter	Urban	Rural
Waste Generation Rate ³	0.51 kg per capita per day	0.31 kg per capita per day
Municipal Solid Waste (MSW) Proportion ⁴	70%	55%
Bulk Waste (BW) Proportion ²	30%	45%

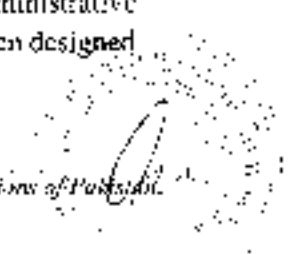
4. Required SWM Operations Plan

In order to properly plan the SWM system of an area, it's highly significant to understand the infrastructure, socio-economic conditions, development resources and topographical dynamics of that area. MWMC team visited each Municipal Committee and Union Council of the Tehsil to assess the requirements for proposed SWM system

Various parameters have been collected from the discussion with concerned administrative officials and projected with the help of statistical models. The future system has been designed on the basis of:

³ ADB Briefs No: 209, March 2022, Waste Sector Inclusion in the Revised Nationally Determined Contributions of Pakistan.

⁴ This proportion is agreed upon based on survey feedback and discussion with the relevant Tehsil staff.



- Population projection.
- Waste generation in these areas.
- Classification of SWM Services

Upon area handover, the contractor must adhere to the outlined responsibilities, which serve as guidelines and minimum requirements. The contractor is also responsible for delivering top-quality services governed by the contract document.

The contractor will provide uniforms, shoes and jackets to supervisors, sanitary workers, and helpers as per following details.

- Uniforms of approved design by the client Twice a year
- Shoes of approved design by the client Once a year
- Jackets of approved design by the client Twice a year

The contractor will ensure the availability of proper PPE's to their workforce. Fleet/Vehicles and containers will be branded and designed by the contractor on the approved design by the client.

The detailed scope of services and proposed model is given below;

4.1. Scope of Services

- x. Mechanical Sweeping and Washing (Urban)
 - i. Mechanical Sweeping & Scrapping
 - ii. Mechanical Washing
- xi. Manual Sweeping & De-siling
- xii. Primary Waste Collection
 - i. Door to Door MSW Collection
 - ii. Bulk Waste (BW) Collection
- xiii. Temporary Waste Storage
 - i. Waste Enclosures
 - ii. Temporary Collection Points (TCP)
- xiv. Secondary Waste Collection
- xv. Waste Disposal
- xvi. Zero Waste Activities
 - i. At the time of Tehsil takeover (once in the whole contract life)
 - ii. At least three to four times in a year or as per clients' requirement at different times.
- xvii. Public awareness campaign as approved by the client
- xviii. Revenue Collection by contractor



4.2. Proposed Model

Urban Areas





Door-to-Door



Waste Container (bins)



Mini-Collection



Curbside



Waste Container (C.I.R.T.)



Door-to-Door



Manual Sweeping + De-silting



MRW



Bulk Waste



Transportation

Transfer Station - Full-Capacity



Temporary Collection points (TCPPs)



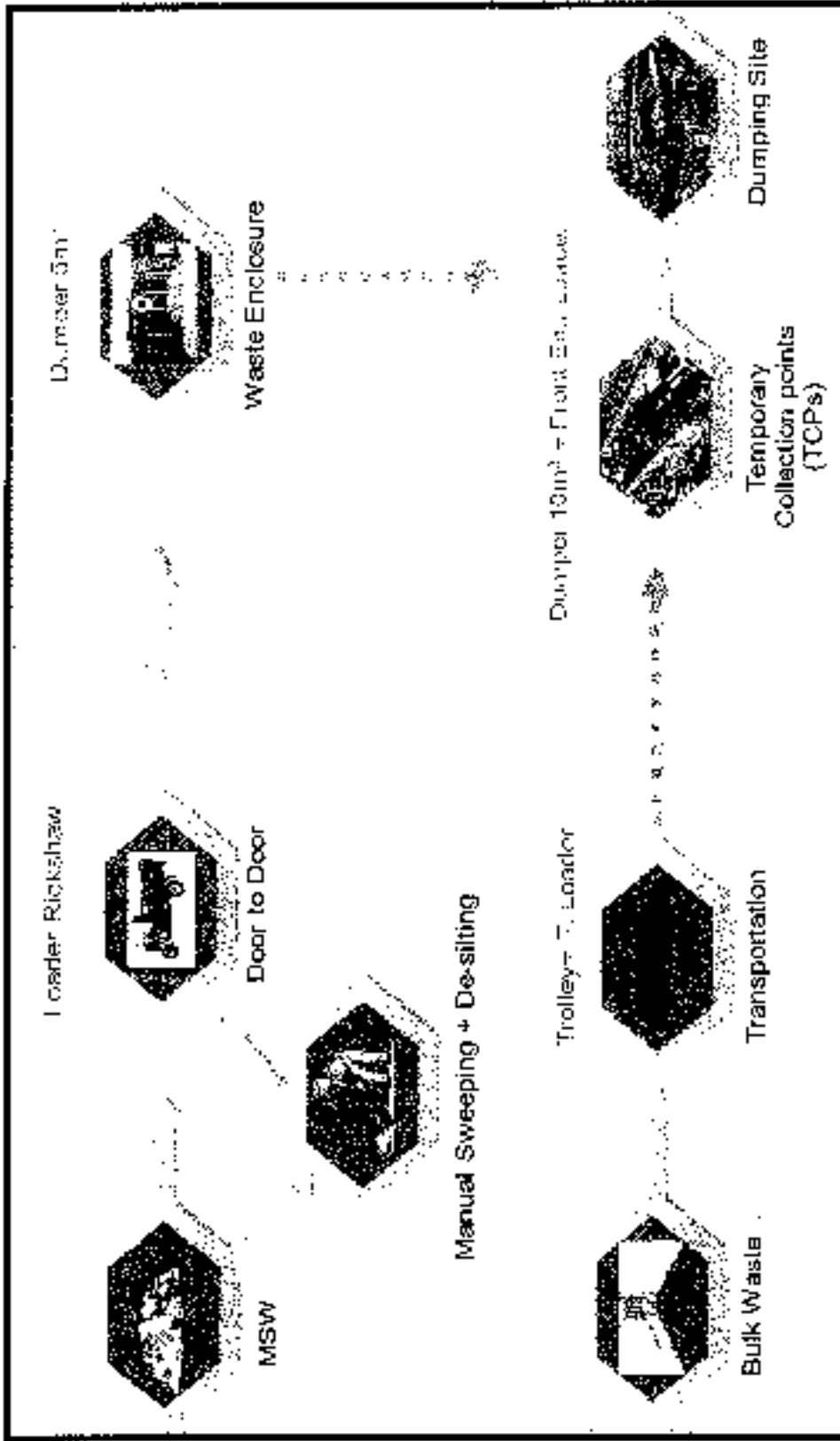
Dumping Site

20%

80%

Volume: (S+M) + T ends





Handwritten signature or initials inside a circular stamp.

D. Mechanical Sweeping (Urban)

4.2.1. Mechanical Sweeping & Scraping

Mechanical sweeping, especially can remove dust and rubbish simultaneously, a task not possible with manual sweeping alone. While manual sweepers clear litter from pavements and grass, technical limitations and street obstacles like parked cars mean mechanical cleaning is most efficient alongside manual cleaning. Improved sweeping machines are now quieter, more economical, and meet emission standards, reducing the need for general personnel and allowing for more specialized roles like drivers and street sweepers.

It is proposed to clear the major roads of the tehsil through 06 Tractor Mounted sweepers to improve the working efficiency as well as the cleanliness standards of the tehsil.

iii. Water Sprinkling

Water Sprinkling is another importance component of waste management system where, public places, major roads, dividers, walkways are washed to improve the cleanliness impact. It is proposed to wash / sprinkle the major roads as specified by the client (min. 05 KM daily per 01 tractor mounted water bowser / washer), walkways of the tehsil through washer to improve the working efficiency as well as the cleanliness standards of the tehsil.

Table 7 Kind of Resources Required for Mech. Sweeping and Washing

Resources	Urban	Rural
Helpers	✓	✓
Drivers	✓	✓
Tractor Mounted Bowser	✓	✓
Tractor Mounted Sweepers	✓	✓

Table 8 Main Parameters for the Mech. Sweeping and Washing Activity

Parameter	Details
Helpers	1 per Tractor Mounted Bowser
	1 per Tractor Tractor Sweeper
Drivers	1 per Tractor Mounted Bowser
	1 per Tractor Sweeper
Tractor Mounted Bowser	1 for 8 UC's
Tractor Mounted Mechanical Sweepers	6 hours a day
Frequency	1 per 8 UC's 6 hours a day Daily



Contractor's Responsibility:

- Identification of the roads for mechanical sweeping and sprinkling
- Formulation of the terms for mechanical sweeping and sprinkling
- Formulation of the schedule for mechanical sweeping and sprinkling - Micro planning
- Deployment of resources as designed
- To arrange water sources for mechanical sprinkling
- To train and guide the helpers and drivers on complete mechanical sweeping and sprinkling mechanism
- To ensure adequate mechanical sweeping and sprinkling as per given resources, mechanism and design parameters

E. Manual Sweeping & De-silting

For major roads and inner streets cleaning in the tehsil, manual sweeping will be ensured. Moreover, Open drains are present in the urban area of tehsil, which needs regular de-silting to avoid any clogging of drains.

Manual Sweeping: A dedicated team of sanitary workers with handcarts will be deployed to ensure proper manual sweeping and de-silting of the tertiary drains (i.e. up to 2 feet wide open) in the given areas. Manual sweeping of residential areas will be done as per the client's specified frequency. Meanwhile, commercial areas, both rural and urban of whole tehsil, will be swept daily. This activity will be monitored by the client through their digital monitoring system and staff.

The dedicated teams will engage in manual sweeping where infrastructure is present, such as installed roads, rigid pavements & tuff paved streets etc. The workers will make small heaps of the collected waste on roads or streets sides and then collect the waste and dump in the nearby container.

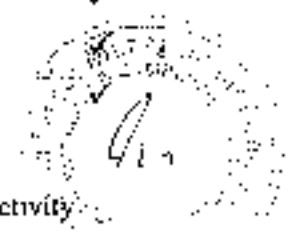
De-silting: These dedicated teams (gangs of sanitary workers) will also perform de-silting of tertiary drains (up to 2 feet wide open) and collect waste from water channels. This silt will then be collected through hand carts and will be unloaded into nearby container or mini dumpers.

Moreover, a drain cleaner will be also being deployed in each tehsil for drain cleanliness purposes.

Below Table: Kind of Resources Required for the Manual Sweeping and Desilting

Resources	Urban	Rural
Sanitary Workers	✓	✓
Hand Carts	✓	✓
Brooms	✓	
De-silting tools and buckets to extract and carry the silt	✓	

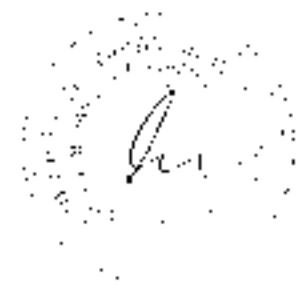
Below Table: Main Parameters for the Manual Sweeping and Desilting Activity



<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers (SW)	1 SW per 200 HH	1 SW per 250 HH
Hand Carts	1 per 2 SW	1 per 2 SW
Frequency (Residential areas)	Twice a Week	Thrice a Week
Frequency (Commercial areas)	Daily	Daily
Drain Cleaner	1 Per Tehsil	
Sucker Machine	1 Per Tehsil	

Contractor's Responsibility:

- Identification of the roads and streets for manual sweeping
- Identification of the drains for de-silting
- Formulation of the beats and respective teams of sanitary workers for manual sweeping and de-silting
- Formation of the schedule for sanitary workers - Micro planning
- Provision of resources
- To train and guide the sanitary worker on complete manual sweeping and de-silting mechanism
- To ensure 100% Manual sweeping and de-silting as per given targets, resources, mechanism and assumptions



E. Primary Waste Collection

iii. Door to Door MSW Collection

Mechanism:

For residential and commercial areas, 100% door to door (D/D) waste collection is proposed to ensure maximum cleanliness in the area.

Urban: For the D/D services, the waste collection is divided in to two equal modes i.e. Handcart (40%) and Loader rickshaw based (60%).

50% of these workers will be given handcarts which will further be emptied in nearby container/TCP.

Whereas, for remaining 50% workers the Loader Rickshaw will be given for door to door collection. These rickshaws will be emptied at TCP.

Rural: For the D/D services, the waste collection is divided in to two equal modes i.e. Handcart (25%) and Loader rickshaw based (75%).



Below Table: Kind of Resources Required for the Door to Door Collection

<u>Resources</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers	✓	✓
Helpers/Balidar	✓	✓
Drivers	✓	✓
Hand carts	✓	✓
Loader Rickshaw	✓	✓

Below Table: Main Parameters for the Door to Door Activity

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Door to door collection	100 %	100%
Sanitary Workers	1 SW per 200 Households	1 per 250 Hr
Drivers	1 per Loader Rickshaw	1 per Loader Rickshaw
Hand carts	1 per 2 SW	1 per 4 SW
Loader Rickshaw	Capacity 500 kg 4 trips daily	Capacity 500 kg 4 trips daily
Waste collection Frequency	Daily	Daily
Waste availability	Readily available at doorstep	Readily available at doorstep

Contractor's Responsibility:

1. Formulation of the beats and respective teams of sanitary workers
2. Formation of the schedule for sanitary workers – Micro-planning
3. Provision of resources
4. To train and guide the sanitary worker on complete DtD mechanism
5. To ensure 100% DtD services as per given targets, resources, mechanism and assumptions

iv. Bulk Waste Collection

Mechanism:

Urban: Bulk waste (30% of total waste) will be lifted by Dedicated sets of Tractor Loader and Trolley will be deployed in each tehsil to cater the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dughills, hotspots, debris etc. These Loader squads will directly be unloaded into the nearby TCPs of the tehsil, for further disposal.

Rural: Bulk waste (45% of total waste) will be lifted by using Tractor Trolleys and Tractor Loaders. Dedicated sets of Tractor Loader and Trolleys will be deployed in each tehsil to cater the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil, including open plots, open heaps, dunghills, hotspots, debris etc. These Trolleys will directly be unloaded into the nearby TCTs of the tehsil, for further disposal.

Below Table: Kind of Resources Required for the Bulk Waste Collection

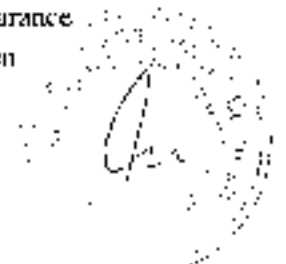
Resources	Urban	Rural
Drivers	✓	✓
Helper/Balldar	✓	✓
Tractor Loaders	✓	✓
Tractor Trolleys	✓	✓

Below Table: Main Parameters for the Bulk Waste Collection Activity

Parameter	Urban	Rural
Bulk Waste	30% of total waste	45% of total waste
Drivers	1 per Tractor Loader 1 per Tractor Trolley	1 per Tractor Loader 1 per Tractor Trolley
Helper/Balldar	1 per Tractor Loader	1 per Tractor Loader
Tractor Loader	1 per 3 Tractor Trolley	1 per 3 Tractor Trolley
Tractor Trolley	Capacity 3 tons 3-4 trips	Capacity 3 tons 3-4 trips
Frequency	Daily (as per schedule)	Daily (as per schedule)

Contractor's Responsibility:

- Identification of open plots, heaps, dunghills, hotspots, debris and illegal dumping points.
- Formulation of the schedule for the machinery sets for clearance of bulk waste on regular basis – Micro-planning
- Provision of resources
- To train and guide the sanitary worker on complete bulk waste clearance
 - To ensure 100% bulk waste clearance as per given targets, resources, mechanism and assumptions



D. Temporary Waste Storage

ii. Waste Enclosures (WE)

For rural areas Waste Enclosures are proposed to unload the Loader Rickshaws that are carrying door to door collected waste. These Waste enclosures will not only save the transportation time but will also save the cost of trips of Rickshaws. The machinery at Waste Enclosure is proposed on tonnage lifting basis.

Below Table: Main Parameters Required for Establishment of Waste Enclosures & Removal of Waste Activity from Enclosures

<u>Parameter</u>	<u>Rural</u>
Number of Enclosure	3-5 Enclosure per UC
Clearance Frequency	twice a week
Area	7-10 Marlas
Specifications	RCC flooring Precast Panks

Contractor's Responsibility:

1. Identification of sites for establishment of Waste Enclosures (WEs)
2. Formulation of specifications of the WEs and their approval from concerned client and authorities
3. Establishment of WEs as per designed number and as per approved / agreed specifications

iii. Temporary Collection Points (TCPs)

The farther the ultimate disposal site is from the collection area, the greater the savings that can be realized from use of a Temporary Collection Point (TCP). The minimum distance at which use of a TCP becomes economical depends on local economic conditions.

Mechanism:

The MSW and BW collected from entire tehsil through different collection modes and machinery will ultimately be collected at the Temporary collection points (TCPs). Waste collection vehicles will temporarily dump waste at TCPs from where it will be transported to dumpsite for controlled disposal on daily basis. The TCPs will be established in the tehsil as per requirement. The TCPs

to be designed to enter at least 100 to 150 tons of solid waste on an area measuring 1 to 2 Kanals. The complete management of TCPs as per standard practices from establishment to clearance and maintenance would be the responsibility of respective contractor.

Below Table: Main Parameters for Establishment of TCPs & Removal of Waste from TCPs

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Number of TCPs	As per distance / requirement	As per distance / requirement
Areas	1-2 Kanals	1-2 Kanals
Distance	10KM Max.	15KM Max.
Capacity	100 to 150 tons	100 to 150 tons
Specifications	RCC flooring Precast Planks	RCC flooring Precast Planks
Clearance Frequency	Daily	Twice a week

Contractor's Responsibility:

1. Formulation of specifications of the TCPs and their approval from concerned client and authorities
2. Establishment of TCPs as per designed number and as per approved / agreed specifications

A handwritten signature in blue ink is written over a circular official stamp. The stamp contains the text 'GOVERNMENT OF KARNATAKA' around the perimeter and 'MUNICIPALITY' at the bottom. The center of the stamp is partially obscured by the signature.

J. Secondary Waste Collection

Secondary Waste collection refers to transportation of waste from Temporary Collection Point (TCP)/ WEs to disposal site. For the said secondary waste collection purposes dedicated machinery sets Dumpers 10m³ and Front End Loaders are deployed at each TCP/WEs. The TCPs are cleared on daily basis to ensure Zero waste.

Below Table: Main Parameters Required for Establishment of TCPs

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Drivers	1 per Dumper 10m ³ 1 per Front End Loader	1 per Dumper 10m ³ 1 per Front End Loader
Dumpers 10m³	Capacity 8 tons 5 trips to DS	Capacity 8 tons 5 trips to DS
Dumpers 5m³	-	Capacity 4 tons 5 trips to DS
Front End Loader	1 per 3 Dumpers 10m ³	1 per 3 Dumpers 10m ³
TCP clearance Frequency	Daily	Thrice a week

Contractor's Responsibility:

- Deployment of resources as designed
- TCPS management and maintenance on regular basis
- To ensure waste clearance from TCPs as per given targets, resources, mechanism and assumptions

K. Waste Disposal

The contractor will establish a controlled dumpsite including Weigh Bridge with all its allied facilities of civil works & IT equipments to minimize environmental and health hazards. A 3-feet thick clay lining will be installed on the foundation/embankment with a slope specified by the client based on existing ground conditions. The clay lining will have an acceptable permeability limit. The embankment will be designed to allow leachate to flow by gravity to a designated collection point. This leachate will be collected with a gully sucker and regularly sprinkled on access roads and waste. Furthermore, fencing for access control, daily soil covering to prevent waste spread, pests, scavenging, and fires, with staff and machinery to ensure proper waste handling. The List of resources is tabulated below. Moreover, the contractor will establish a

controlled dumping site until then, the contractor will arrange make shift arrangements for waste dumping / disposal.

Below Table: Kind of Resources Required for Controlled Dumpsite

Design Area	Acres	10 Acres
Design Life	Years	7 Years
Pit less Weigh Bridge & its allied facilities	30 feet X 10 feet	Pit less weigh bridge as per client approved specifications with all its related civil works i.e. operator room, rigid pavements & allied IT equipments.
Machinery	Front End Loader Dumpers (10 m ³)	1 Front End Loader for waste spreading, compaction, and soil loading 1 Dumper for soil transportation and Backlog removal
Working Hours	240 Hours	8 hours per day based on daily tonnage
Human Resource	Supervisors Helper Driver	1 1 2

Contractor's Responsibility: Installation of Weigh Bridge and allied facilities

- Establishment of dumpsite as per approved designed standards by the client.
- The contractor will establish a pit-less weighbridge of size 30 feet x 10 feet (30' x 10'), including its supporting structure made of steel with a size of 600 x 200mm x 9 feet 6 inches
- The cross girder (26 No.) will consist of I-beam, measuring 200 x 100mm x 9 feet 6 inches.
- The supporting girders (02 No.) will be 200 x 100mm x 9 feet 6 inches, incorporating an MS plate of 12mm plate (30 x 10) feet
- Load cell (04 No.) with 40 tons' capacity each.
- Junction box (01 No.) compatible.
- The weighbridge will have a lane size of 30 x 10 feet and a weighing capacity of 60 tons.
- All necessary accessories will be included, and fitting installations will be completed as part of the job. RFID System (complete trunk key solution), IP Cameras, UPS & Generator, Controller, Desktop Computer, AC, AVR (Automatic Voltage regulator) etc.
- Rigid pavements (RCC slab, compacted base course etc.) of minimum 1 feet thickness & length approx. 15 feet on each side of Weigh Bridge as per client approved designed.

- Additionally, the contractor will establish an operator room with a minimum size of 30 x 12 feet, incorporating all necessary facilities such as a toilet, kitchen as per approved designed by client
- Contractor will build security guard room on top of operator room as per approved designed by the client.
- Weigh bridge control will be in the custody of client i.e. MWMC. Contractor will only establish and maintain R&M related works.
 - Contractor will deploy resources as per client designed criteria
 - Dumpsite management and maintenance on regular basis as per designed criteria
 - Leveling, compacting and Soil Covering & sprinkling of collected leachate on dumped waste.

L. Zero Waste Activities

The contractor will conduct at least following zero waste activities.

- iii. At the time of Tehsil takeover (Once in the whole contract life)
- iv. At least three to four times in a year or as per clients' requirement at different times done within scope of work.

▪ One Time Cleaning and Rehabilitation/Reclamation of Existing Dump site:

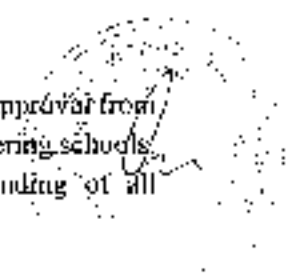
- Client may ask to contractor to perform one time cleaning activity for removal of all backlog of waste present in the area identified by the contractor for the approval of the client. For the said activity the contractor will identify the hotspots carrying backlog waste, including open plots, open heaps, depressions etc. along with the coordinates. The contractor will get the list of these identified hotspots approved from the client and will get them clear accordingly.
- Client may ask to contractor for rehabilitation/reclaiming of existing dumpsite with proposed mechanism identified by the client. The prices of the above two activities will be decided by the client and contractor and intimated to the contractor after the approval of the BOD of Client.
- In the future, if GOPb establishes MRFs in the respective Tehsils, the contractor may be asked to segregate waste at TCPs. Further, its transportation to the MRFs. Payment for this additional work will be made later, subject to the approval of the client's BOD as per contract

M.Revenue Collection

Contractor will be responsible for revenue collection in entire tehsil. Detailed mechanism of revenue collection is explained in sub heading 11.

N. Public Awareness Campaign

The contractor's plan will include a public awareness campaign, subject to prior approval from the client. The contractor will submit a detailed micro plan for the campaign, covering schools, residential areas, and commercial areas. Contractor will ensure proper branding of all



containers, hand carts, waste drums and operational fleet as per the design / specimen approved by the client.

5. Required Resources

5.1. Human Resource

Table Required HR

Sr. #	Description	Urban	Rural	Dump Site	Total
1	Sanitary Workers	52	717	0	768
2	Sanitary Supervisors	1	45	1	47
3	Helpers	8	201	1	210
4	Drivers	15	233	2	250
	Total	76	1196	4	1275

5.2. Machinery

Table Required Machinery

Sr. #	Type of Vehicles	Urban	Rural	Total
1	Loader Rickshaw	6	180	184
2	Tractor Loader	1	7	8
3	Tractor Trolley	3	21	24
4	Tractor Loader 4 Wheels	1	2	3
5	Dumper Truck 10m ³	3	3	6
6	Dumper Truck 5m ³	0	3	3
7	Mechanical Sweepers	1	5	6
8	Tractor Blade	1	5	6
9	Tractor mounted Water Bowser	1	5	6



10	Sacker Machine	0	1	1
11	Drain Cleaner	0	1	1
	Total	15	233	248

5.3. Tools & Equipment

Table 9 Required Tools & Equipment

Tools & Equipment			
Description	Urban	Rural	Total
Hand Carts	26	179	205
Skips			
Containers 10m ³			
Containers 5m ³			
Total	26	179	205

5.4. Dumpsite machinery

Table Required Machinery for Dumpsite

Sr. #	Description	Total
1	Dumper (10m ³)	1
2	Front End Loader	1
	Total	2

Number of vehicles / machineries may be changed with the prior approval from Board of Directors-MWMC keeping in view the same volumetric capacity.

6. Comparison

6.1. Human Resource

Table 10 Comparison of HR

HR					
Sr. #	Description	Existing	Required	Difference	
1	Workers	27	768	741	
2	Supervisor	0	47	47	
3	Drivers	1	250	249	
4	Helper/Baiklar	0	210	210	
	Total	28	1275	1247	

6.2. Machinery

Table 11 Comparison of Machinery

Machinery (excluding Landfill Machinery)			
Type of Vehicles	Existing	Proposed	Difference
Loader Backhoe	5	184	179
Tractor Loader	1	8	7

Traктор Трейл	2	26	22
Traктор Loader wheels	0	4	4
Dumper Truck 10m3	0	7	7
Dumper Truck 5m3		3	3
Machanical Sump-pes	0	6	6
Traктор Blade	1	6	5
Traктор mounted Water Pover	0	6	6
Sucker Machine		1	1
Drain Cleaner		1	1
Container Lifter Arm adl	0		
M. Tipper	0		
Compactor	0		
Total	9	250	241

6.3. Tools & Equipment

Table 12 Comparison of Tools & equipment

Tools & Equipment			
Description	Existing	Proposed	Difference
Hand Carts	5	205	199
Skips	0		
Containers 10m3	0		
Containers 7m3	0		
Containers 4m3	0		
Brooms		7551	
Lime		570	
Uniform		2551	
Masks		2551	
Gloves		2551	
TCR Cost	0	3	3
Dumping Mgt Cost			1
Monitoring Cost		1	1
Public Awareness		1	1
Total	6		

[Handwritten signature]

11. Special services on Special Events

The contractor will ensure special cleanliness services and availability of requisite resources for special events including:

- Eid-ul-Fitr
- Ramadan
- Eid-ul-Adha
- Muharram
- Eid Milad-un-Nabi
- Christmas
- Any other event or emergency

The contractor will prepare proper SWM plan prior to each event for execution accordingly. The SWM plan should cover:

- Standard Operating Procedure (SOPs)
- Hotspots as per the event
- Resources Required

12. Overall Monitoring of Operations

The client will develop a digital monitoring system, which will be used for measuring work progress for quality assurance and payment purposes. The Digital Monitoring System will report on predefined Key Performance Indicators (KPIs). It will be IT-based and include field monitoring by the client's supervisory team, village/ward committee notified by the client (VTMS-Digital Monitoring Mechanism)

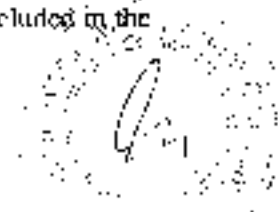
Moreover, *Work Satisfaction Stakeholder Committee (Village/Ward Committee)* will also be constituted. The committee will consist of representatives from the public, who will be asked to report on the work satisfaction from the public perspective and can be linked with the payment mechanism. The Stakeholder Committee will be formulated by the client, and its members will be decided within a reasonable time from the contract signing. The role of the committee is purely voluntary and will not supersede the management's opinions.

Further, the client will also nominate its committee to resolve any disputes regarding work verification.

In the case of the digital monitoring system being non-functional, the payment will be processed based on the submission of a verification report by the monitoring team of the client clearly based on the performance indicators.

13. Human Resource Management

For overall execution of Operations as per plan and its supervision, Sanitary Supervisors are proposed for the overall SMW management. One Supervisor is proposed for 25 Sanitary Workers, in both Urban and Rural areas. Administration cost (2% of the operations cost) is included in the project cost.



14. Cost Estimates

Waste Collection (Tons per Day)	365
Annual Estimated Cost (Rs. in Millions)	1793.60
Cost per Ton (Rs.)	13492
Cost per Capita per Month (Rs.)	131.69

Note: The rental value of the machinery includes depreciation, R&M, and a 15% profit. However, depreciation is calculated over 5 years with a 15% residual asset value.

Note:

- Life of 0.5m³ containers 1 Years
- Life of 5m³ containers 3 years
- HR Cost is tabulated below:

Particulars	HR Cost / Employee / Month
Sanitary workers	11,440
Supervisors	44,620
Helpers	41,440
Drivers	14,620

- HR cost includes salary, social security, EOB1 and GLI
- HR cost of existing staff is not included in cost estimates. Only the deficit staff HR cost included in Cost estimates.
- Total cost including of all taxes
- Escalation factor based on minimum wage of PKR 37,000/month as on July 04, 2024
- Escalation factor based on high speed diesel price of PKR 277.45 per liter as per PSO as on July 04, 2024
- 3% of operational cost per year is included for special events/ Eid Ul Azhar/zero waste activity
- 1% of operational cost per year is included as contingency.
- Rental cost of existing resources not included in cost estimates.
- Fitness certificate & emission reports from transport department will be mandatory for rented vehicles
- Cost of Temporary collection points and waste enclosures is included in cost estimates
- Janitorial material (broom, lime etc.), PPE (masks, Gloves etc.), uniform Hand carts cost included in cost estimates
- Cost of PKR 200,000/- per month for public awareness also included in cost estimates
- Hand cart life 1 year.
- Cost estimates are based on 26 working days in a month
- Monitoring cost of PKR 800,000/- per month (annual PKR 9,600,000/-) included in cost estimates which will be recovered from the contractor after implementation
- All waste carrying/transportation vehicle should be covered properly to avoid littering.
- Required machinery and HR is estimated based on the population and waste generation, for evaluation purpose.



PROPOSED SOLID WASTE MANAGEMENT (SWM) OPERATIONS PLAN

FOR

District	<u><i>Khanewal</i></u>
Tehsil	<u><i>Jahanian</i></u>
LOT #	<u><i>3</i></u>



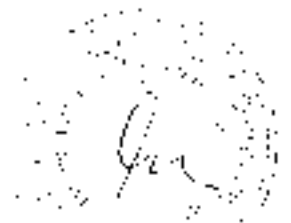
June, 2024

Multan Waste Management Company



List of Abbreviations

BW	Bulk Waste
DC	District Council
DD	Door to Door
DS	Campsite
HH	Household
KM	Kilo Meter
LGCD	Local Government & Community Development
MWMC	Mulan Waste Management Company
MC	Municipal Committee
MSW	Municipal Solid Waste
m³	Cubic Meter
SOP	Standard Operating Procedure
SWM	Solid Waste Management
SW	Sanitary Worker
TCP	Temporary Collection Point
UC	Union Council
WB	World Bank



I. Demography

The current Local Government and Community Development (L.G.C.D) division of Tehsil/District comprises a blend of Municipal Committees and the District Council. According to existing demarcations and regulations, the urban sector of the Tehsil consists of Municipal Committees, while the remaining areas fall under the jurisdiction of the District Council. Municipal Committees are organized into wards, whereas the District Council comprises Union Councils, encompassing villages, towns, and semi-urban areas within the Tehsil.

Presently, Tehsil Jahanjan comprises MC Jahanjan having 1 Urban and 18 Rural UCs. The main particulars of tehsil Jahanjan is as follows:

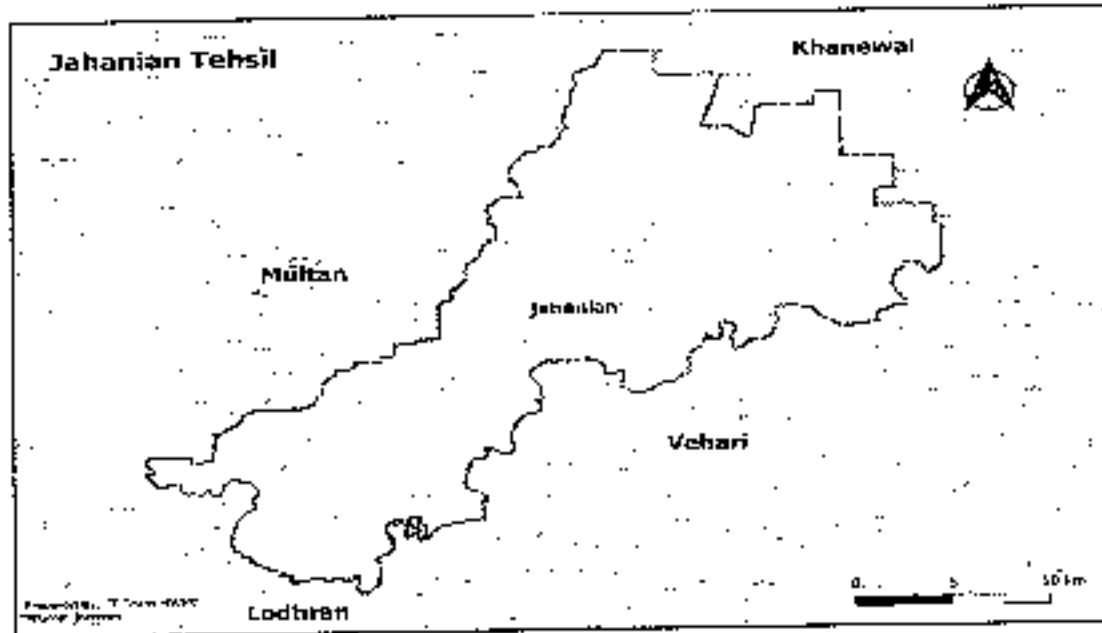
Table No. 1: Summary of Tehsil

Tehsil:	Jahanjan
Municipal Committees	1
No. of Rural UCs	18
No of Villages	89
Population of Tehsil (Census 2023):	592,802
Urban population:	52,000
Rural population:	540,802
Waste generation (Daily):	Urban (MCs): Approx. 148 Tons @ 0.51 kg / capita Rural (UCs): Approx. 278 Tons @ 0.31 kg / capita

Note: Waste generation is an estimated amount and it may vary (±) from the above mentioned amount. However, any approval regarding change in estimated waste generation will be sought from the Board of Directors/CEO, MWMC.



Map of Tehsil Jahaniyan is attached below:



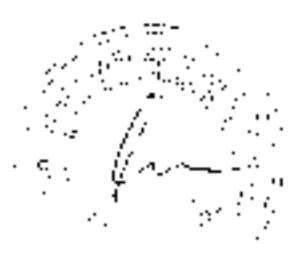
Map of Tehsil Jahaniyan

2. Existing Resources:

The lists / Annexures provided with Services And Assets Management Agreement (SAAMA) signed between MPMC and Tehsil's MCs and DCs is considered for existing resources assessment, given below in Table;

Human Resource				
Tehsil	Helper	Sanitary Supervisor	Sanitary Workers	Driver
Jahaniyan	0	0	36	0
Machinery				
Tehsil	Loader Rickshaw	Tractor Trolley	Tractor Loader	
Jahaniyan	0	1	1	
	Tractor Blade	Mechanical Sweeper	Compactor	
	1	0	0	
	Container Lifter Arm Roll	Mini Tipper	Dumper Truck	
	0	0	0	
	Water Bowzer			
	0			
Equipment				
Tehsil	Skips	Hand carts	Container 10 M3	

Johanian	0	22	0	
----------	---	----	---	--



3. Waste Streams

The solid waste being generated in any area is further divided into two streams i.e. Municipal Solid Waste (MSW) and Bulk Waste. Whereas, the total solid waste generation is calculated for urban areas is based on 0.51 kg per capita per day and for rural areas it's based on 0.31 kg per capita per day.

3.1.1. Municipal Solid Waste (MSW)

Municipal solid waste (MSW) is a waste type consisting of everyday items that are discarded by the public, including items like food scraps, packaging materials, paper, plastics, glass, and other disposable items. For the SWM planning of the tehsil, 70% MSW generation in urban areas and 55% in rural areas, is assumed out of total waste generated.

3.1.2. Bulk Waste (BW)

Bulk Waste refers to the large quantities of waste that are too large or heavy to be collected through dedicated collection methods. Examples include construction debris, animal dung, and backlog mixed waste lying in open plots or open spaces anywhere in the tehsil. Proper collection of bulk waste typically requires special handling and collection procedures.

Below Table: Waste Generation Estimates

Parameter	Urban	Rural
Waste Generation Rate ⁵	0.51 kg per capita per day	0.31 kg per capita per day
Municipal Solid Waste (MSW) Proportion ⁶	70%	55%
Bulk Waste (BW) Proportion ²	30%	45%

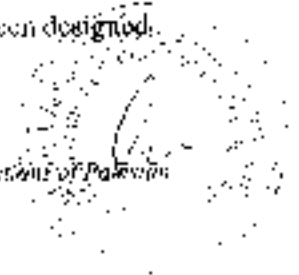
4. Required SWM Operations Plan

In order to properly plan the SWM system of an area, it's highly significant to understand the infrastructure, socio-economic conditions, development resources and topographical dynamics of that area. MWMC team visited each Municipal Committee and Union Council of the Tehsil to assess the requirements for proposed SWM system.

Various parameters have been collected from the discussion with concerned administrative officials and projected with the help of statistical models. The future system has been designed on the basis of

⁵ IDB Briefs No. 209, March 2002. Waste Sector Inclusion in the Revised National Determined Contributions of Pakistan

⁶ This proportion is agreed upon based on survey, feedback and discussion with the relevant Tehsil staff



- Population projection.
- Waste generation in these areas.
- Classification of SWM Services

Upon area handover, the contractor must adhere to the outlined responsibilities, which serve as guidelines and minimum requirements. The contractor is also responsible for delivering top-quality services governed by the contract document;

The contractor will provide uniforms, shoes and jackets to supervisors, sanitary workers, and helpers as per following details.

- Uniforms of approved design by the client Twice a year
- Shoes of approved design by the client Once a year
- Jackets of approved design by the client Twice a year

The contractor will ensure the availability of proper PPE's to their workforce. Fleet/Vehicles and containers will be branded and designed by the contractor on the approved design by the client.

The detailed scope of services and proposed model is given below;

4.1. Scope of Services

- xix. Mechanical Sweeping and Washing (Urban)
 - i. Mechanical Sweeping & Scrapping
 - ii. Mechanical Washing
- xx. Manual Sweeping & De-silting
- xxi. Primary Waste Collection
 - i. Door to Door MSW Collection
 - ii. Bulk Waste (BW) Collection
- xxii. Temporary Waste Storage
 - i. Waste Enclosures
 - ii. Temporary Collection Points (TCP)
- xxiii. Secondary Waste Collection
- xxiv. Waste Disposal
- xxv. Zero Waste Activities
 - i. At the time of Tehsil takeover (once in the whole contract life)
 - ii. At least three to four times in a year or as per clients' requirement at different times.
- xxvi. Public awareness campaign as approved by the client.
- xxvii. Revenue Collection by contractor



4.2. Proposed Model

Urban Areas





Chair - Arm Hall



Waste Canister (5m³)



250 Chairs

Concrete



Concrete Counter (0.2m³)

Number - 1000 - 1 unit of 1000



Temporary Collection points (TCRs)



Translocation



Rails Waste



Row 10 Door



Manual Sweeping + De-silting

Number (5m³) - 1 load

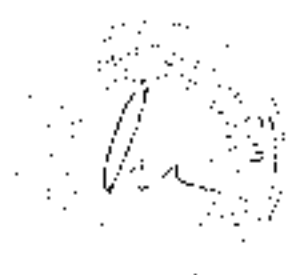
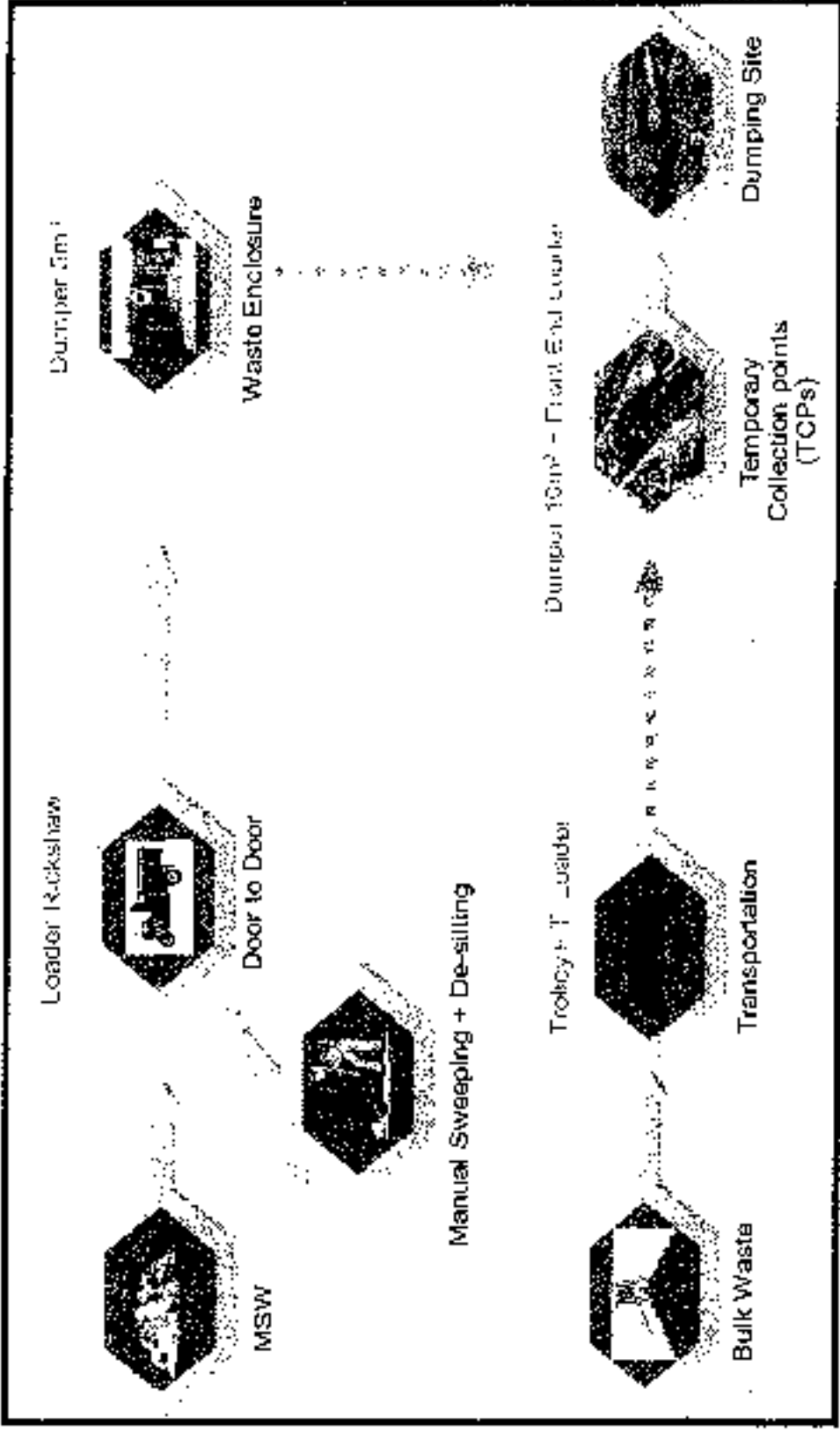
20%

80%



MGN





G. Mechanical Sweeping (Urban)

4.2.1. Mechanical Sweeping & Scraping

Mechanical sweeping, especially can remove dust and rubbish simultaneously, a task not possible with manual sweeping alone. While manual sweepers clear litter from pavements and grass, technical limitations and street obstacles like parked cars mean mechanical clearing is most efficient alongside manual cleaning. Improved sweeping machines are now quieter, more economical, and meet emission standards, reducing the need for general personnel and allowing for more specialized roles like drivers and street sweepers.

It is proposed to clear the major roads of the tehsil through 03 Tractor Mounted sweepers to improve the working efficiency as well as the cleanliness standards of the tehsil.

iv. Water Sprinkling

Water Sprinkling is another importance component of waste management system where, public places, major roads, dividers, walkways are washed to improve the cleanliness impact. It is proposed to wash & sprinkle the major roads as specified by the client (min. 05 KM daily per 01 tractor mounted water bowser/ washer), walkways of the tehsil through washer to improve the working efficiency as well as the cleanliness standards of the tehsil.

Table 13 Kind of Resources Required for Mech. Sweeping and Washing

Resources	Urban	Rural
Helpers	✓	✓
Drivers	✓	✓
Tractor Mounted Bowser	✓	✓
Tractor Mounted Sweepers	✓	✓

Table 14 Main Parameters for the Mech. Sweeping and Washing Activity

Parameter	Urban
Helpers	1 per Tractor Mounted Bowser 1 per Tractor Sweeper
Drivers	1 per Tractor Mounted Bowser 1 per Tractor Sweeper
Tractor Mounted Bowser	1 for 8 UC's 6 hours a day
Tractor Mounted Mechanical Sweepers	1 per 8 UC's 6 hours a day
Frequency	Daily



Contractor's Responsibility:

- Identification of the roads for mechanical sweeping and sprinkling
- Formulation of the teams for mechanical sweeping and sprinkling
- Formation of the schedule for mechanical sweeping and sprinkling - Micro planning
- Deployment of resources as designed
- To arrange water sources for mechanical sprinkling
- To train and guide the helpers and drivers on complete mechanical sweeping and sprinkling mechanism
- To ensure adequate mechanical sweeping and sprinkling as per given resources, mechanism and design parameters

H. Manual Sweeping & De-silting

For major roads and inner streets cleaning in the tehsil, manual sweeping will be ensured. Moreover, Open drains are present in the urban area of tehsil, which needs regular de-silting to avoid any clogging of drains.

Mechanism:

Manual Sweeping: A dedicated team of sanitary workers with handcarts will be deployed to ensure proper manual sweeping and de-silting of the tertiary drains (i.e. up to 2 feet wide open) in the given areas. Manual sweeping of residential areas will be done as per the client's specified frequency. Meanwhile, commercial areas, both rural and urban of whole tehsil, will be swept daily. This activity will be monitored by the client through their digital monitoring system and staff.

The dedicated teams will engage in manual sweeping where infrastructure is present, such as metalled roads, rigid pavements & tuff paved streets etc. The workers will make small heaps of the collected waste on roads or streets sides and then collect the waste and dump in the nearby container.

De-silting: These dedicated teams /gangs of sanitary workers will also perform de-silting of tertiary drains (up to 2 feet wide / open) and collect waste from water channels. This silt will then be collected through hand carts and will be unloaded into nearby container or mini dumpers.

Moreover, a drain cleaner will be also being deployed to each tehsil for drain cleanliness purposes.

Below Table Kind of Resources Required for the Manual Sweeping and Desilting

<u>Resources</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers	✓	✓
Hand Carts	✓	✓
Brooms	✓	✓
De-silting tools and buckets to extract and carry the silt	✓	✓



Below Table. Main Parameters for the Manual Sweeping and Desilting Activity

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers (SW)	1 SW per 200 HH	1 SW per 250 HH
Hand Carts	1 per 2 SW	1 per 2 SW
Frequency (Residential areas)	Twice a Week	Twice a Week
Frequency (Commercial areas)	Daily	Daily
Drain Cleaner	1 Per Tensi	
Sucker Machine	1 Per Tensi	

Contractor's Responsibility:

- Identification of the roads and streets for manual sweeping
- Identification of the drains for de-silting
- Formulation of the beats and respective teams of sanitary workers for manual sweeping and de-silting
- Formulation of the schedule for sanitary workers - Micro-planning
- Provision of resources
- To train and guide the sanitary worker on complete manual sweeping and de-silting mechanism
- To ensure 100% Manual sweeping and de-silting as per given targets, resources, mechanism and assumption



I. Primary Waste Collection

v. Door to Door MSW Collection

Mechanism:

For residential and commercial areas, 100% door to door (D/D) waste collection is proposed to ensure maximum cleanliness in the area.

Urban: For the D/D services, the waste collection is divided in to two equal modes i.e. Handcart (40%) and Loader rickshaw based (60%).

50% of these workers will be given handcarts which will further be emptied in nearby container/TCP.

Whereas, for remaining 50% workers the Loader Rickshaw will be given for door to door collection. These rickshaws will be emptied at TCP.

Rural: For the D/D services, the waste collection is divided in to two equal modes i.e. Handcart (25%) and Loader rickshaw based (75%).



Below Table: Kind of Resources Required for the Door to Door Collection

Resources	Urban	Rural
Sanitary Workers	✓	✓
Helpers/Baidar	✓	✓
Drivers	✓	✓
Hand carts	✓	✓
Loader Rickshaw	✓	✓

Below Table: Main Parameters for the Door to Door Activity

Parameter	Urban	Rural
Door to door collection	100%	100%
Sanitary Workers	1 SW per 200 Households	1 per 250 HH
Drivers	1 per Loader Rickshaw	1 per Loader Rickshaw
Hand carts	1 per 2 SW	1 per 4 SW
Loader Rickshaw	Capacity 500 kg 4 trips daily	Capacity 500 kg 4 trips daily
Waste collection frequency	Daily	Daily
Waste availability	Readily available at doorstep	Readily available at doorstep

Contractor's Responsibility:

1. Formulation of the beats and respective teams of sanitary workers
2. Formation of the schedule for sanitary workers - Micro-planning
3. Provision of resources
4. To train and guide the sanitary worker on complete DiD mechanism
 5. To ensure 100% DiD services as per given targets, resources, mechanism and assumptions

vi. Bulk Waste Collection

Mechanism:

Urban: Bulk waste (30% of total waste) will be lifted by Dedicated sets of Tractor Loader and Trolley will be deployed in each tehsil to cater the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dungheils, hotspots, debris etc. These Loader squads will directly be unloaded into the nearby TCPs of the tehsil, for further disposal.

Rural: Bulk waste (45% of total waste) will be lifted by using Tractor Trolleys and Tractor Loaders. Dedicated sets of Tractor Loader and Trolleys will be deployed in each tehsil to cater the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dunghills, hotspots, debris etc. These trolleys will directly be unloaded into the nearby TCPs of the tehsil, for further disposal.

Below Table, Kind of Resources Required for the Bulk Waste Collection

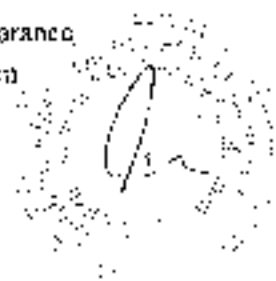
Resources	Urban	Rural
Drivers	✓	✓
Helper/Baidar	✓	✓
Tractor Loaders	✓	✓
Tractor Trolleys	✓	✓

Below Table Main Parameters for the Bulk Waste Collection Activity

Parameter	Urban	Rural
Bulk Waste	30% of total waste	45% of total waste
Drivers	1 per Tractor Loader 1 per Tractor Trolley	1 per Tractor Loader 1 per Tractor Trolley
Helper/Baidar	1 per Tractor Loader	1 per Tractor Loader
Tractor Loader	1 per 3 Tractor Trolley	1 per 3 Tractor Trolley
Tractor Trolley	Capacity 3 tons 3-4 trips	Capacity 3 tons 3-4 trips
Frequency	Daily (as per schedule)	Daily (as per schedule)

Contractor's Responsibility:

- Identification of open plots, heaps, dunghills, hotspots, debris and illegal dumping points.
- Formation of the schedule for the machinery sets for clearance of bulk waste on regular basis - Micro-planning
- Provision of resources
- To train and guide the sanitary worker on complete bulk waste clearance
 - To ensure 100% bulk waste clearance as per given targets, resources, mechanism and assumptions



D. Temporary Waste Storage

ii. Waste Enclosures (WE)

For rural areas Waste Enclosures are proposed to unload the Loader Rickshaws that are carrying door to door collected waste. These Waste enclosures will not only save the transportation time but will also save the cost of trips of Rickshaws. The machinery at Waste Enclosure is proposed on tonnage lifting basis.

Below Table: Main Parameters Required for Establishment of Waste Enclosures & Removal of Waste Activity from Enclosures

<u>Parameter</u>	<u>Rural</u>
Number of Enclosure	3-5 Enclosure per UC
Clearance Frequency	Twice a week
Area	7 – 10 Marlas
Specifications	RCC flooring Precast Planks

Contractor's Responsibility:

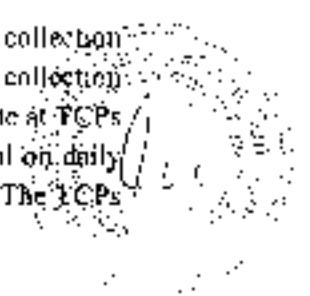
1. Identification of sites for establishment of Waste Enclosures (WEs)
2. Formulation of specifications of the WEs and their approval from concerned client and authorities
3. Establishment of WEs as per designed number and as per approved / agreed specifications

iii. Temporary Collection Points (TCPs)

The farther the ultimate disposal site is from the collection area, the greater the savings that can be realized from use of a Temporary Collection Point (TCP). The minimum distance at which use of a TCP becomes economical depends on local economic conditions

Mechanism:

The MSW and BW collected from entire tehsil through different collection modes and machinery will ultimately be collected at the Temporary collection points (TCPs). Waste collection vehicles will temporarily dump waste at TCPs from where it will be transported to dumpsite for controlled disposal on daily basis. The TCPs will be established in the tehsil as per requirement. The TCPs



to be designed to cater at least 100 to 150 tons of solid waste on an area measuring 1 to 2 Kanals. The complete management of TCPs as per standard practices from establishment to clearance and maintenance would be the responsibility of respective contractor.

Below Table: Main Parameters for Establishment of TCPs & Removal of Waste from TCPs

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Number of TCPs	As per distance / requirement	As per distance / requirement
Areas	1-2 Kanals	1-2 Kanals
Distance	10KM Max.	15KM Max.
Capacity	100 to 150 tons	100 to 150 tons
Specifications	RCC flooring Precast Planks	RCC flooring Precast Planks
Clearance Frequency	Daily	Twice a week

Contractor's Responsibility:

1. Formulation of specifications of the TCPs and their approval from concerned client and authorities
2. Establishment of TCPs as per designed number and as per approved / agreed specifications



O. Secondary Waste Collection

Secondary Waste collection refers to transportation of waste from Temporary Collection Point (TCP)/WEs to disposal site. For the said secondary waste collection purposes dedicated machinery sets Dumpers 10m³ and Front End Loaders are deployed at each TCP/WEs. The TCPs are cleared on daily basis to ensure Zero waste.

Below Table: Main Parameters Required for Establishment of TCPs

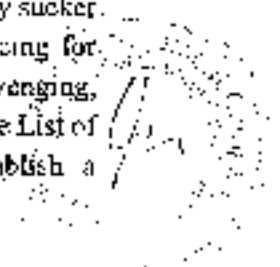
<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Drivers	1 per Dumper 10m ³ 1 per Front End Loader	1 per Dumper 10m ³ 1 per Front End Loader
Dumpers 10m ³	Capacity 8 tons 5 trips to DS	Capacity 8 tons 5 trips to DS
Dumpers 5m ³	-	Capacity 4 tons 5 trips to DS
Front End Loader	1 per 3 Dumpers 10m ³	1 per 3 Dumpers 10m ³
TCP clearance Frequency	Daily	Daily

Contractor's Responsibility:

- Deployment of resources as designed
- TCPS management and maintenance on regular basis
- To ensure waste clearance from TCPs as per given targets, resources, mechanism and assumptions

P. Waste Disposal

The contractor will establish a controlled dumpsite including Weigh Bridge with all its allied facilities of civil works & IT equipment's to minimize environmental and health hazards. A 3-feet thick clay lining will be installed on the foundation/embankment with a slope specified by the client based on existing ground conditions. The clay lining will have an acceptable permeability limit. The embankment will be designed to allow leachate to flow by gravity to a designated collection point. This leachate will be collected with a gully sucker, and regularly sprinkled on access roads and waste. Furthermore, fencing for access control, daily soil covering to prevent waste spread, pests, scavenging, and fires, with staff and machinery to ensure proper waste handling. The List of resources is tabulated below. Moreover, the contractor will establish a



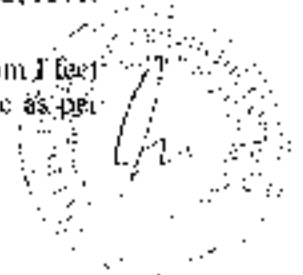
controlled dumping site until then, the contractor will arrange make shift arrangements for waste dumping / disposal

Below Table: Kind of Resources Required for Controlled Dumpsite

Design Area	Area	10 Acres
Design Life	Years	7 Years
Pit less Weigh Bridge & its allied facilities	30 feet X 10 feet	Pit less weigh bridge as per client approved specifications with all its related civil works i.e. operator room, rigid pavements & allied IT equipment's.
Machinery	Front End Loader	1 Front End Loader for waste spreading, compaction, and soil loading
	Dumpers (10 m ³)	1 Dumper for soil transportation and Backlog removal
Working Hours	240 Hours	8 hours per day based on daily tonnage
Human Resource	Supervisors	1
	Helper	1
	Driver	2

Contractor's Responsibility: Installation of Weigh Bridge and allied facilities

- Establishment of dumpsite as per approved designed standards by the client
- The contractor will establish a pit-less weighbridge of size 30 feet x 10 feet (30' x 10'), including its supporting structure made of steel with a size of 600 x 200mm x 9 feet 6 inches.
- The cross girder (26 No.) will consist of I-beam, measuring 200 x 100mm x 9 feet 6 inches
- The supporting girders (12 No.) will be 200 x 100mm x 9 feet 6 inches, incorporating an MS plate of 12mm plate (30 x 10) feet
- Load cell (04 No.) with 40 tons' capacity each.
- Junction box (01 No.) compatible.
- The weighbridge will have a lane size of 30 x 10 feet and a weighing capacity of 60 tons
- All necessary accessories will be included, and fitting installations will be completed as part of the job. RFID System (complete trunk key solution), IP Cameras, UPS & Generator, Controller, Desktop Computer, AC, AVR (Automatic Voltage regulator) etc.
- Rigid pavements (RCC slab, compacted base course etc.) of minimum 1 feet thickness & length approx. 15 feet on each side of Weigh Bridge as per client approved designed.



- Additionally, the contractor will establish an operator room with a minimum size of 20 x 12 feet, incorporating all necessary facilities such as a toilet, kitchen as per approved designed by client.
- Contractor will build security guard room on top of operator room as per approved designed by the client.
- Weigh bridge control will be in the custody of client i.e. MWMC. Contractor will only establish and maintain R&M related works.
 - Contractor will deploy resources as per client designed criteria
 - Dumpsite management and maintenance on regular basis as per designed criteria
 - Leveling, compacting and Soil Covering & sprinkling of collected leachate on dumped waste.

Q. Zero Waste Activities

The contractor will conduct at least following zero waste activities:

- v. At the time of Tehsil takeover (Once in the whole contract life)
- vi. At least three to four times in a year or as per clients' requirement at different times done within scope of work.

• One Time Cleaning and Rehabilitation/Reclamation of Existing Dump site:

- Client may ask to contractor to perform one time cleaning activity for removal of all backlog of waste present in the area identified by the contractor for the approval of the client. For the said activity the contractor will identify the hotspots carrying backlog waste, including open plots, open heaps, depressions etc. along with the coordinates. The contractor will get the list of these identified hotspots approved from the client and will get them clear accordingly.
- Client may ask to contractor for rehabilitation/reclaiming of existing dumpsite with proposed mechanism identified by the client. The prices of the above two activities will be decided by the client and contractor and intimated to the contractor after the approval of the BOD of Client.
- In the future, if GOPs establishes MRFs in the respective Tehsils, the contractor may be asked to segregate waste at TCPs. Further, its transportation to the MRF's. Payment for this additional work will be made later, subject to the approval of the client's BOD as per contract

R. Revenue Collection

Contractor will be responsible for revenue collection in entire tehsil. Detailed mechanism of revenue collection is explained in sub heading 11.

S. Public Awareness Campaign

The contractor's plan will include a public awareness campaign, subject to prior approval from the client. The contractor will submit a detailed micro plan for the campaign, covering schools,



residential areas, and commercial areas. Contractor will ensure proper branding of all containers, hand carts, waste drums and operational fleet as per the design / specimen approved by the client.

5. Required Resources

5.1. Human Resource

Table Required HR

Sr. #	Description	Urban	Rural	Dump Site	Total
1	Sanitary Workers	43	361	0	404
2	Sanitary Supervisors	2	18	1	21
3	Helpers	12	83	1	96
4	Drivers	19	100	2	121
	Total	76	562	4	642

5.2. Machinery

Table Required Machinery

Sr. #	Type of Vehicles	Urban	Rural	Total
1	Loader Rickshaw	8	72	80
2	Tractor Loader	1	3	4
3	Tractor Trolley	3	9	12
4	Tractor Loader 4 Wheels	1	2	3
5	Dumper Truck 10m3	3	3	6
6	Dumper Truck 5m3	0	3	3
7	Mechanical Sweeper	1	2	3
8	Tractor Blade	1	2	3
9	Tractor mounted Water Bowser	1	2	3
10	Sucker Machine	0	1	1
11	Drain Cleaner	0	1	1
	Total	19	100	119

5.3. Tools & Equipment

Table 15 Required Tools & Equipment

Tools & Equipment			
Description	Urban	Rural	Total
Hand Carts	22	90	112
Skips			
Containers 10m3			
Containers 5m3			
Total	22	90	112



5.4. Dumpsite Machinery

Table Required Machinery for Dumpsite

Sr. #	Description	Total
1	Dumper (11m ³)	1
2	Front End Loader	1
	Total	2

Number of vehicles / machineries may be changed with the prior approval from Board of Directors-MWMC keeping in view the same volumetric capacity

6. Comparison

6.1. Human Resource

Table 16 Comparison of HR

HR					
Sr. #	Description	Existing	Required	Difference	
1	Workers Sanitary	36	404	368	
2	Supervisor Sanitary	0	21	21	
3	Drivers	0	121	121	
4	Helper/Baidar	0	96	96	
	Total	36	642	606	

6.2. Machinery

Table 17 Comparison of Machinery

Machinery (excluding Landfill Machinery)			
Type of Vehicles	Existing	Proposed	Difference
Loader Rickshaw	0	80	80
Tractor Loader	1	4	3
Tractor Trolley	1	14	11
Tractor Loader 4 Wheels	0	4	4
Dumper Truck 10m ³	0	7	7
Dumper Truck 5m ³		3	3
Mechanical Sweeper	0	3	3
Tractor Blade	1	3	2
Tractor mounted Water Bowser	0	3	3
Smoker Machine		1	1
Drain Cleaner		1	1
Container Lifter 4m ³ to	0		



Mini Tipper	0		
Compactor	0		
Total	3	121	118

1.1. Tools & Equipment

Table 18 Comparison of Tools & equipment

Tools & Equipment			
Description	Existing	Proposed	Difference
Tranc Cars	22	112	90
Skips	0		
Containers 10m ³	0		
Containers 7m ³	0		
Containers 4m ³	0		
Brooms		1284	
Lime		276	
Uniform		1284	
Masks		1284	
Gloves		1284	
ICP Cost	0	3	3
Dumping Mgt Cost			1
Monitoring Cost		1	1
Public Awareness		1	1
Total	22		



15. Special services on Special Events

The contractor will ensure special cleanliness services and availability of requisite resources for special events including:

- Eid-ul-Fitr
- Rautadar
- Eid-ul-Adha
- Muharram
- Eid Milad-unNabi
- Christmas
- Any other event or emergency

The contractor will prepare proper SWM plan prior to each event for execution accordingly. The SWM plan should cover:

- Standard Operating Procedure (SOPs)
- Hotspots as per the event
- Resources Required

16. Overall Monitoring of Operations

The client will develop a digital monitoring system, which will be used for measuring work progress for quality assurance and payment purposes. The Digital Monitoring System will report on predefined Key Performance Indicators (KPIs). It will be IT-based and include field monitoring by the client's supervisory team, village/ward committee notified by the client (VTMS/Digital Monitoring Mechanism).

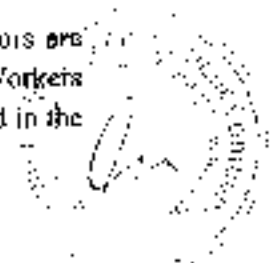
Moreover, *Work Satisfaction Stakeholder Committee (Village/Ward Committee)* will also be constituted. The committee will consist of representatives from the public, who will be asked to report on the work satisfaction from the public perspective and can be linked with the payment mechanism. The Stakeholder Committee will be formulated by the client, and its members will be decided within a reasonable time from the contract signing. The role of the committee is purely voluntary and will not supersede the management's opinions.

Further, the client will also nominate its committee to resolve any disputes regarding work verification.

In the case of the digital monitoring system being non-functional, the payment will be processed based on the submission of a verification report by the monitoring team of the client clearly based on the performance indicators.

17. Human Resource Management

For overall execution of Operations as per plan and its supervision, Sanitary Supervisors are proposed for the overall SMW management. One Supervisor is proposed for 25 Sanitary Workers in both Urban and Rural areas. Administration cost (2% of the operations cost) is included in the project cost.



18. Cost Estimates

Waste Collection (Tons per Day)	194
Annual Estimated Cost (Rs. In Millions)	990.46
Cost per Ton (Rs.)	14005
Cost per Capita per Month (Rs.)	139.53

Note: The rental value of the machinery includes depreciation, R&M, and a 15% profit. However, depreciation is calculated over 5 years with a 15% residual asset value.

Note:

- Life of 0.8m³ containers 2 Years
- Life of 5m³ containers 3 years
- HR Cost is tabulated below:

Particulars	HR Cost / Employee / Month
Sanitary workers	41,440
Supervisors	44,620
Helpers	41,440
Drivers	44,620

- HR cost includes salary, social security, EOB1 and GIJ
- HR cost of existing staff is not included in cost estimates. Only the deficit staff HR cost included in Cost estimates.
- Total cost including of all taxes
- Escalation factor based on minimum wage of PKR 37,000/month as on July 04, 2024
- Escalation factor based on high speed diesel price of PKR 277.45 per liter as per PSO as on July 04, 2024
- 3% of operational cost per year is included for special events/ Eid Ul Azha/zero waste activity
- 1% of operational cost per year is included as contingency.
- Rental cost of existing resources not included in cost estimates.
- Fitness certificate & emission reports from transport department will be mandatory for rented vehicles
- Cost of Temporary collection points and waste enclosures is included in cost estimates
- Janitorial material (broom, lime etc), PPE (masks, Gloves etc), uniform Hand carts cost included in cost estimates
- Cost of PKR 200,000/- per month for public awareness also included in cost estimates
- Hand cart life 1 year.
- Cost estimates are based on 26 working days in a month
- Monitoring cost of PKR 800,000/- per month (annual PKR 9,600,000/-) included in cost estimates which will be recovered from the contractor after implementation
- All waste carrying/transportation vehicle should be covered properly to avoid littering.
- Required machinery and HR is estimated based on the population and waste generation, for evaluation purpose.



PROPOSED SOLID WASTE MANAGEMENT (SWM) OPERATIONS PLAN

FOR

District	<u>Khanewal</u>
Tehsil	<u>Mian Channu</u>
LOT #	<u>4</u>



June, 2024

Multan Waste Management Company



List of Abbreviations

BW	Bulk Waste
DC	District Council
DD	Door to Door
DS	Dumpsite
HH	Household
KM	Kilo Meter
LGCD	Local Government & Community Development
MWMC	Multan Waste Management Company
MC	Municipal Committee
MSW	Municipal Solid Waste
m³	Cubic Meter
SOP	Standard Operating Procedure
SWM	Solid Waste Management
SW	Sanitary Worker
TCP	Temporary Collection Point
UC	Union Council
WB	World Bank



1. Demography

The current Local Government and Community Development (LGCD) division of Tehsil/District comprises a blend of Municipal Committees and the District Council. According to existing demarcations and regulations, the urban sector of the Tehsil consists of Municipal Committees, while the remaining areas fall under the jurisdiction of the District Council. Municipal Committees are organized into wards, whereas the District Council comprises Union Councils, encompassing villages, towns, and semi-urban areas within the Tehsil.

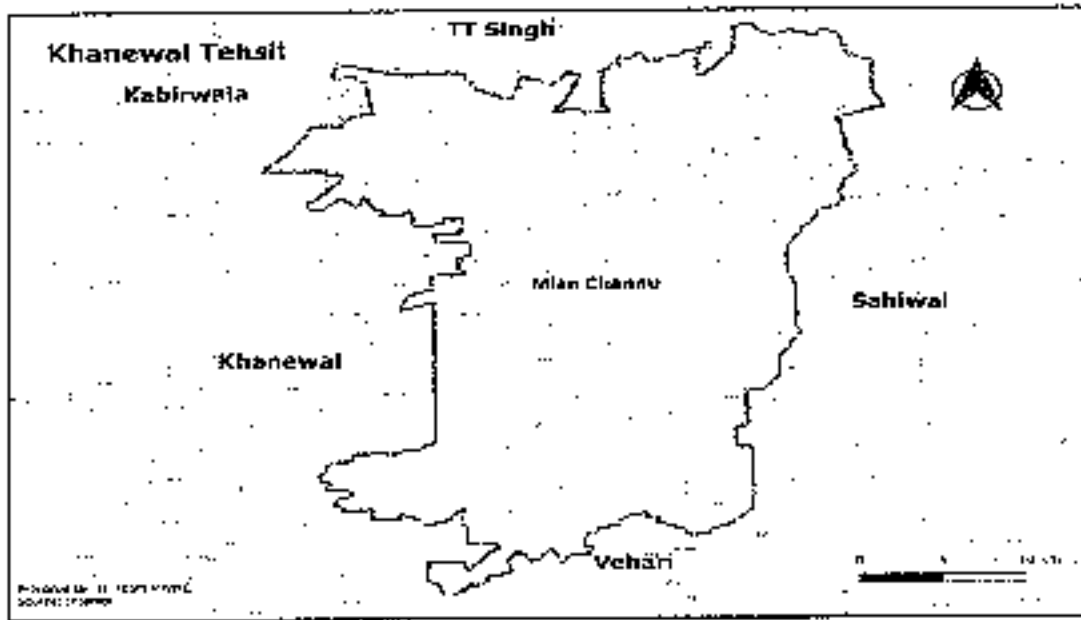
Presently, Tehsil Main Channu comprises MC Main Channu having 33 Rural UCs and 175 villages. The main particulars of tehsil Main Channu is as follows:

Table No. 1: Summary of Tehsil

Tehsil:	Main Channu
Municipal Committees	1
No. of Rural UCs	33
No of Villages	175
Population of Tehsil (Census 2023):	914,695
Urban population:	214,986
Rural population:	699,709
Waste generation (Daily):	Urban (MCs): Approx. 118 Tons @ 0.51 kg / capita Rural (UCs): Approx. 278 Tons @ 0.31 kg / capita

Note: Waste generation is an estimated amount and it may vary (±) from the above mentioned amount. However, any approval regarding change in estimated waste generation will be sought from the Board of Directors/CEO, MWMC.

Map of Tehsil Main Channa is attached below.

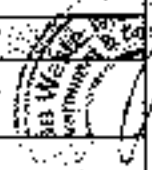


Map of Tehsil Main Channa

2. Existing Resources:

The lists / Annexures provided with Services And Assets Management Agreement (SAAMA) signed between MWMC and Tehsil's MCs and DCs is considered for existing resources assessment, given below in Table:

Human Resource				
Tehsil	Helper	Sanitary Supervisor	Sanitary Workers	Driver
Main Channa	0	0	586	0
Machinery				
Tehsil	Loader Rickshaw	Tractor Trolley	Tractor Loader	
Main Channa	47	6	4	
	Tractor Blade	Mechanical Sweeper	Compactor	
	0	0	0	
	Container Lifter Arm Roll	Mini Tipper	Dumper Truck	
	0	0	0	
	Water Bowzer			
	0			
Equipment				
Tehsil	Skips	Hand carts	Container 10 M3	
Main	0	50	0	



Chanu !		
---------	--	--



3. Waste Streams

The solid waste being generated in any area is further divided into two streams : i. Municipal Solid Waste (MSW) and Bulk Waste. Whereas, the total solid waste generation is calculated for urban areas is based on 0.51 kg per capita per day and for rural areas it's based on 0.3 kg per capita per day.

3.1.1. Municipal Solid Waste (MSW)

Municipal solid waste (MSW), is a waste type consisting of everyday items that are discarded by the public, including items like food scraps, packaging materials, paper, plastics, glass, and other disposable items. For the MSW planning of the tehsil, 70% MSW generation in urban areas and 55% in rural areas, is assumed out of total waste generated.

3.1.2. Bulk Waste (BW)

Bulk Waste refers to the large quantities of waste that are too large or heavy to be collected through dedicated collection methods. Examples include construction debris, animal dung, and backlog mixed waste lying in open plots or open spaces anywhere in the tehsil. Proper collection of bulk waste typically requires special handling and collection procedures.

Below Table: Waste Generation Estimates

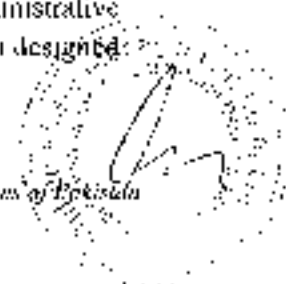
Parameter	Urban	Rural
Waste Generation Rate ¹	0.51 kg per capita per day	0.31 kg per capita per day
Municipal Solid Waste (MSW) Proportion ²	70%	55%
Bulk Waste (BW) Proportion ²	30%	45%

4. Required SWM Operations Plan

In order to properly plan the SWM system of an area, it's highly significant to understand the infrastructure, socio-economic conditions, development resources and topographical dynamics of that area. MWMCC team visited each Municipal Committee and Union Council of the Tehsil to assess the requirements for proposed SWM system.

Various parameters have been collected from the discussion with concerned administrative officials and projected with the help of statistical models. The future system has been designed on the basis of

¹ADP Book, No. 309, March 2012, Waste Sector Projection in the Revised National Development Contributions of Pakistan
² This proportion is agreed upon based on survey, feedback and discussion with the relevant Tehsil staff.



- Population projection.
- Waste generation in these areas.
- Classification of SWM Services

Upon area handover, the contractor must adhere to the outlined responsibilities, which serve as guidelines and minimum requirements. The contractor is also responsible for delivering top-quality services governed by the contract document.

The contractor will provide uniforms, shoes and jackets to supervisors, sanitary workers, and helpers as per following details.

- Uniforms of approved design by the client Twice a year
- Shoes of approved design by the client Once a year
- Jackets of approved design by the client Twice a year

The contractor will ensure the availability of proper PPE's to their workforce. Fleet/Vehicles and containers will be branded and designed by the contractor on the approved design by the client.

The detailed scope of services and proposed model is given below.

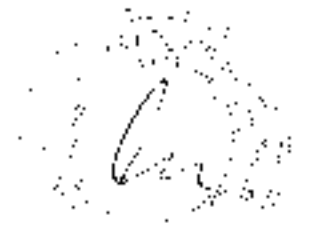
4.1. Scope of Services

- xxviii. Mechanical Sweeping and Washing (Urban)
 - i. Mechanical Sweeping & Scrapping
 - ii. Mechanical Washing
- xxix. Manual Sweeping & De-silting
- xxx. Primary Waste Collection
 - i. Door to Door MSW Collection
 - ii. Bulk Waste (BW) Collection
- xxxi. Temporary Waste Storage
 - i. Waste Enclosures
 - ii. Temporary Collection Points (TCP)
- xxxii. Secondary Waste Collection
- xxxiii. Waste Disposal
- xxxiv. Zero Waste Activities
 - i. At the time of Telsij takeover (once in the whole contract life)
 - ii. At least three to four times in a year or as per clients' requirement at different times.
- xxxv. Public awareness campaign as approved by the client.
- xxxvi. Revenue Collection by contractor



4.2. Proposed Model

Urban Areas

A handwritten signature in black ink is written over a circular, dotted stamp. The signature is cursive and appears to be 'A. S. ...'. The stamp is a faint, circular border with a dotted pattern.



Chrom 2 material



Waste collection in (5000)



Waste collection

20%



Door to Door

80%



MSW

Composter



Waste collection (10000)



Manual Sorting + Densifying

10000 (10000) + 1 (10000)



Transportation



Slack Waste

10000 (10000) + 1 (10000)

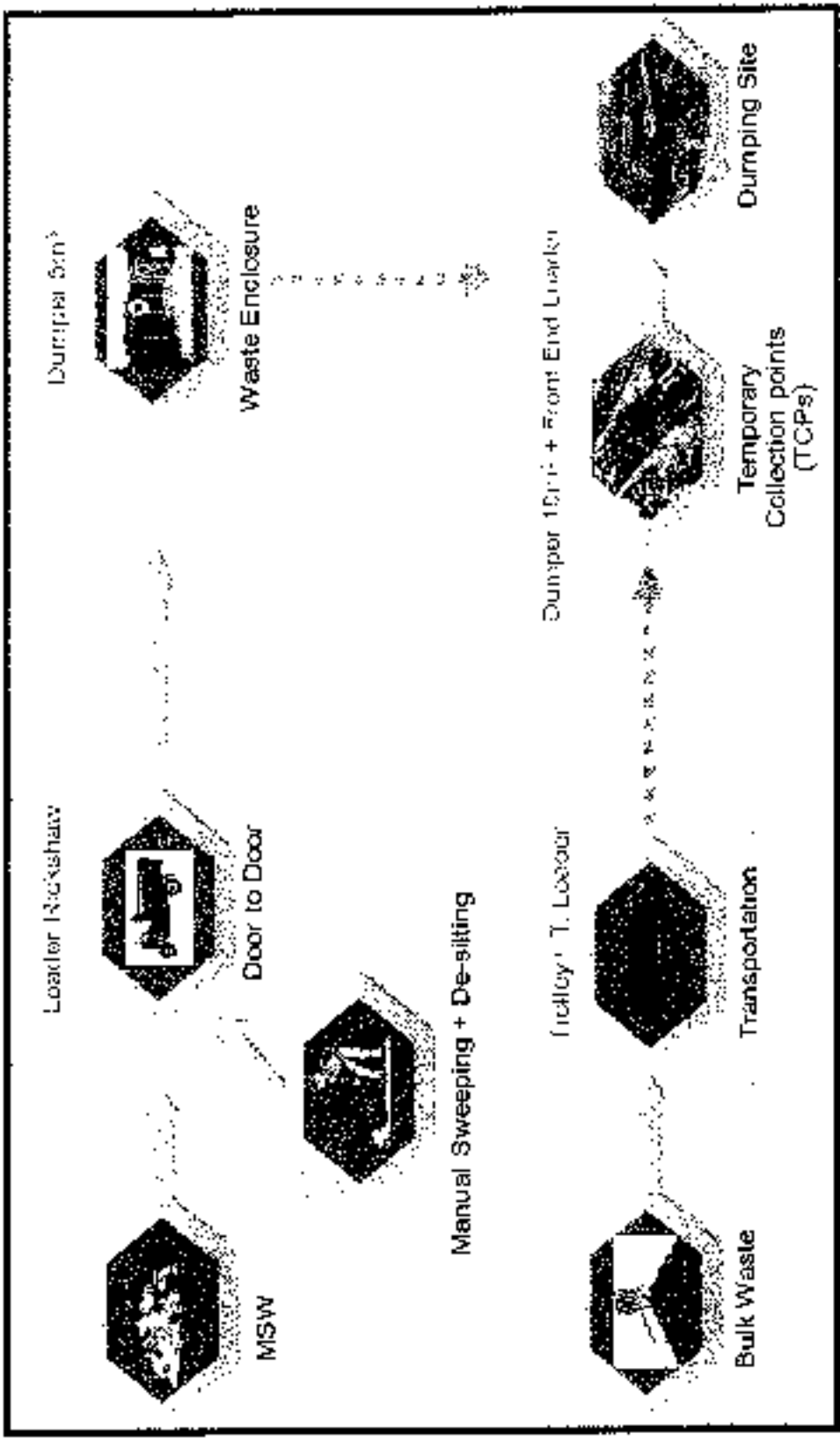


Temporary Collection points (TCPs)



Dumping Site





J. Mechanical Sweeping (Urban)

4.2.1. Mechanical Sweeping & Scraping

Mechanical sweeping, especially can remove dust and rubbish simultaneously, a task not possible with manual sweeping alone. While manual sweepers clear litter from pavements and grass, technical limitations and street obstacles like parked cars mean mechanical cleaning is most efficient alongside manual cleaning. Improved sweeping machines are now quieter, more economical, and meet emission standards, reducing the need for general personnel and allowing for more specialized roles like drivers and street sweepers.

It is proposed to clear the major roads of the tehsil through 05 Tractor Mounted sweepers to improve the working efficiency as well as the cleanliness standards of the tehsil.

v. Water Sprinkling

Water Sprinkling is another importance component of waste management system where, public places, major roads, dividers, walkways are washed to improve the cleanliness impact. It is proposed to wash / sprinkle the major roads as specified by the client (min. 05 KM daily per 01 tractor mounted water bowser / washer), walkways of the tehsil through washer to improve the working efficiency as well as the cleanliness standards of the tehsil.

Table 19 Kind of Resources Required for Mech. Sweeping and Washing

Resources	Urban	Rural
Helpers	✓	✓
Drivers	✓	✓
Tractor Mounted Bowser	✓	✓
Tractor Mounted Sweepers	✓	✓

Table 20 Main Parameters for the Mech. Sweeping and Washing Activity

Parameter	Urban
Helpers	1 per Tractor Mounted Bowser 1 per Tractor Sweeper
Drivers	1 per Tractor Mounted Bowser 1 per Tractor Sweeper
Tractor Mounted Bowser	1 for 8 UC's 6 hours a day
Tractor Mounted Mechanical Sweepers	1 per 8 UC's 6 hours a day
Frequency	Daily



Contractor's Responsibility:

- Identification of the roads for mechanical sweeping and sprinkling
- Formulation of the teams for mechanical sweeping and sprinkling
- Formulation of the schedule for mechanical sweeping and sprinkling - Micro planning
- Deployment of resources as designed
- To arrange water sources for mechanical sprinkling .
- To train and guide the helpers and drivers on complete mechanical sweeping and sprinkling mechanism
- To ensure adequate mechanical sweeping and sprinkling as per given resources, mechanism and design parameters

K. Manual Sweeping & De-silting

For major roads and inner streets cleaning in the tehsil, manual sweeping will be ensured. Moreover, Open drains are present in the urban area of tehsil, which needs regular de-silting to avoid any clogging of drains.

Mechanism:

Manual Sweeping: A dedicated team of sanitary workers with hardhats will be deployed to ensure proper manual sweeping and de-silting of the tertiary drains (i.e. up to 2 feet wide open) in the given areas. Manual sweeping of residential areas will be done as per the client's specified frequency. Meanwhile, commercial areas, both rural and urban of whole tehsil, will be swept daily. This activity will be monitored by the client through their digital monitoring system and staff.

The dedicated teams will engage in manual sweeping where infrastructure is present, such as metalled roads, rigid pavements & tuff paved streets etc. The workers will make small heaps of the collected waste on roads or streets sides and then collect the waste and dump in the nearby container.

De-silting: These dedicated teams /gangs of sanitary workers will also perform de-silting of tertiary drains (up to 2 feet wide / open) and collect waste from water channels. This silt will then be collected through hand carts and will be unloaded into nearby container or mini dumpers.

Moreover, a drain cleaner will be also being deputed in each tehsil for drain cleanliness purposes.

Below Table: Kind of Resources Required for the Manual Sweeping and Desilting

Resources	Urban	Rural
Sanitary Workers	✓	✓
Hand Carts	✓	✓
Brooms	✓	✓
De-silting tools and buckets to extract and carry the silt	✓	✓



Below Table: Main Parameters for the Manual Sweeping and Desilting Activity

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers (SW)	1 SW per 200 HH	1 SW per 250 HH
Hand Carts	1 per 2 SW	1 per 4 SW
Frequency (Residential areas)	Twice a Week	Once a Week
Frequency (Commercial areas)	Daily	Daily
Drain Cleaner	1 Per Tehsil	
Sucker Machine	1 Per Tehsil	

Contractor's Responsibility:

- Identification of the roads and streets for manual sweeping
- Identification of the drains for de-silting
- Formulation of the beats and respective teams of sanitary workers for manual sweeping and de-silting
- Formation of the schedule for sanitary workers – Micro-planning
- Provision of resources
- To train and guide the sanitary worker on complete manual sweeping and de-silting mechanism
- To ensure 100% Manual sweeping and de-silting as per given targets, resources, mechanism and assumptions



L. Primary Waste Collection

vii. Door to Door MSW Collection

Mechanism:

For residential and commercial areas, 100% door to door (DfD) waste collection is proposed to ensure maximum cleanliness in the area.

Urban: For the DfD services, the waste collection is divided in to two equal modes i.e. Handcart (40%) and Loader rickshaw based (60%).

50% of these workers will be given handcarts which will further be emptied in nearby container/TCP.

Whereas, for remaining 50% workers the Loader Rickshaw will be given for door to door collection. These rickshaws will be emptied at TCP.

Rural: For the DfD services, the waste collection is divided in to two equal modes i.e. Handcart (25%) and Loader rickshaw based (75%).



Below Table: Kind of Resources Required for the Door to Door Collection

<u>Resources</u>	<u>Urban</u>	<u>Rural</u>
Sanitary Workers	✓	✓
Helpers/Baidar	✓	✓
Drivers	✓	✓
Hand carts	✓	✓
Loader Rickshaw	✓	✓

Below Table: Main Parameters for the Door to Door Activity

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Door to door collection	100%	100%
Sanitary Workers	1 SW per 200 Households	1 per 250 HH
Drivers	1 per Loader Rickshaw	1 per Loader Rickshaw
Hand carts	1 per 2 SW	1 per 4 SW
Loader Rickshaw	Capacity 500 kg 4 trips daily	Capacity 500 kg 4 trips daily
Waste collection Frequency	Daily	Daily
Waste availability	Readily available at doorstep	Readily available at doorstep

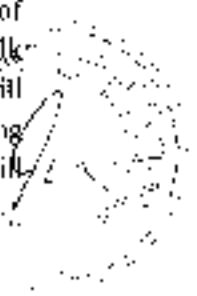
Contractor's Responsibility:

1. Formulation of the beats and respective teams of sanitary workers
2. Formation of the schedule for sanitary workers Micro-planning
3. Provision of resources
4. To train and guide the sanitary worker on complete Dtd mechanism
5. To ensure 100% Dtd services as per given targets, resources, mechanism and assumptions

viii. Bulk Waste Collection

Mechanism:

Urban: Bulk waste (30% of total waste) will be lifted by Dedicated sets of Tractor Loader and Trolley will be deployed in each tehsil to cater the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dunghills, hotspots, debris etc. These Loader squads will directly be unladen into the nearby TCPs of the tehsil, for further disposal.



Rural: Bulk waste (45% of total waste) will be lifted by using Tractor Trolleys and Tractor Loaders. Dedicated sets of Tractor Loader and Trolleys will be deployed in each tehsil to enter the bulk waste on daily basis to ensure zero waste in the entire tehsil. The machinery will be deployed as per schedule to attend all possible areas of the tehsil including open plots, open heaps, dunghills, hotspots, debris etc. These Trolleys will directly be unloaded into the nearby TCPs of the tehsil, for further disposal.

Below Table: Kind of Resources Required for the Bulk Waste Collection.

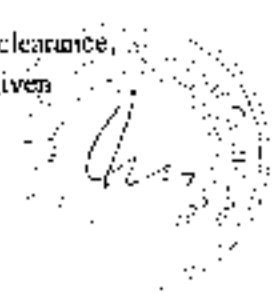
Resources	Urban	Rural
Drivers	✓	✓
Helper/Balldar	✓	✓
Tractor Loaders	✓	✓
Tractor Trolleys	✓	✓

Below Table: Main Parameters for the Bulk Waste Collection Activity

Parameter	Urban	Rural
Bulk Waste	30% of total waste	45% of total waste
Drivers	1 per Tractor Loader 1 per Tractor Trolley	1 per Tractor Loader 1 per Tractor Trolley
Helper/Balldar	1 per Tractor Loader	1 per Tractor Loader
Tractor Loader	1 per 3 Tractor Trolley	1 per 3 Tractor Trolley
Tractor Trolley	Capacity 3 tons 3-4 trips	Capacity 3 tons 3-4 trips
Frequency	Daily (as per schedule)	Daily (as per schedule)

Contractor's Responsibility:

- Identification of open plots, heaps, dunghills, hotspots, debris and illegal dumping points.
- Formation of the schedule for the machinery sets for clearance of bulk waste on regular basis – Micro-planning
- Provision of resources
- To train and guide the sanitary worker on complete bulk waste clearance.
 - To ensure 100% bulk waste clearance as per given targets, resources, mechanism and assumptions



D. Temporary Waste Storage

ii. Waste Enclosures (WE)

For rural areas Waste Enclosures are proposed to unload the Loader Rickshaws that are carrying door to door collected waste. These Waste enclosures will not only save the transportation time but will also save the cost of trips of Rickshaws. The machinery at Waste Enclosure is proposed on tonnage lifting basis.

Below Table: Main Parameters Required for Establishment of Waste Enclosures & Removal of Waste Activity from Enclosures

<u>Parameter</u>	<u>Rural</u>
Number of Enclosure	3-5 Enclosure per UC
Clearance Frequency	twice a week
Area	7 - 10 Marlas
Specifications	RCC flooring Precast Planks

Contractor's Responsibility:

1. Identification of sites for establishment of Waste Enclosures (WEs)
2. Formulation of specifications of the WEs and their approval from concerned client and authorities
3. Establishment of WEs as per designed number and as per approved / agreed specifications

iii. Temporary Collection Points (TCPs)

The farther the ultimate disposal site is from the collection area, the greater the savings that can be realized from use of a Temporary Collection Point (TCP). The minimum distance at which use of a TCP becomes economical depends on local economic conditions

Mechanism:

The MSW and HW collected from entire retail through different collection modes and machinery will ultimately be collected at the Temporary collection points (TCPs). Waste collection vehicles will temporarily dump waste at TCPs from where it will be transported to dumpsite for controlled disposal on daily basis. The TCPs will be established in the retail as per requirement. The TCPs

to be designed to cater at least 100 to 150 tons of solid waste on an area measuring 1 to 2 Kanals. The complete management of TCPs as per standard practices from establishment to clearance and maintenance would be the responsibility of respective contractor.

Below Table: Main Parameters for Establishment of TCPs & Removal of Waste from TCPs

<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Number of TCPs	As per distance / requirement	As per distance / requirement
Area	1-2 Kanals	1-2 Kanals
Distance	10KM Max.	15KM Max.
Capacity	100 to 150 tons	100 to 150 tons
Specifications	RCC flooring Precast Planks	RCC flooring Precast Planks
Clearance Frequency	Daily	Twice a week

Contractor's Responsibility:

1. Formulation of specifications of the TCPs and their approval from concerned client and authorities
2. Establishment of TCPs as per designed number and as per approved / agreed specifications

T. Secondary Waste Collection

Secondary Waste collection refers to transportation of waste from Temporary Collection Point (TCP)/ WEs to disposal site. For the said secondary waste collection purposes dedicated machinery sets Dumpers 10m³ and Front End Loaders are deployed at each TCP/WEs. The TCPs are cleared on daily basis to ensure Zero waste.

Below Table: Main Parameters Required for Establishment of TCPs

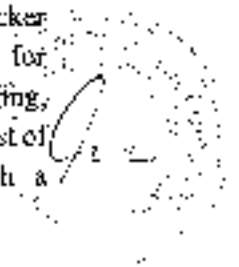
<u>Parameter</u>	<u>Urban</u>	<u>Rural</u>
Drivers	1 per Dumper 10m ³ 1 per Front End Loader	1 per Dumper 10m ³ 1 per Front End Loader
Dumpers 10m³	Capacity 5 tons 5 trips to DS	Capacity 8 tons 5 trips to DS
Dumpers 5m³	-	Capacity 4 tons 5 trips to DS
Front End Loader	1 per 3 Dumpers 10m ³	1 per 3 Dumpers 10m ³
TCP clearance Frequency	Daily	Thrice a week

Contractor's Responsibility:

- Deployment of resources as designed
- TCPS management and maintenance on regular basis
- To ensure waste clearance from TCPs as per given targets, resources, mechanism and assumptions

U. Waste Disposal

The contractor will establish a controlled dumpsite including Weigh Bridge with all its allied facilities of civil works & IT equipment's to minimize environmental and health hazards. A 3-feet thick clay lining will be installed on the foundation/embankment with a slope specified by the client based on existing ground conditions. The clay lining will have an acceptable permeability limit. The embankment will be designed to allow leachate to flow by gravity to a designated collection point. This leachate will be collected with a gully sucker and regularly sprinkled on access roads and waste. Furthermore, fencing for access control, daily soil covering to prevent waste spread, pests, scavenging, and fires, with staff and machinery to ensure proper waste handling. The List of resources is tabulated below. Moreover, the contractor will establish a



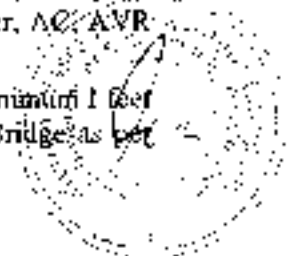
controlled dumping site until then, the contractor will arrange make shift arrangements for waste dumping / disposal.

Below Table: Kind of Resources Required for Controlled Dumpsite

Design Area Design Life	Area Years	10 Acres 7 Years
Pit less Weigh Bridge & its allied facilities	30 feet X 10 feet	Pit less weigh bridge as per client approved specifications with all its related civil works i.e. operator room, rigid pavements & allied IT equipments.
Machinery	Front End Loader	1 Front End Loader for waste spreading, compaction, and soil loading
	Dumpers (10 m ³)	1 Dumper for soil transportation and Backlog removal
Working Hours	240 Hours	8 hours per day based on duty tonnage
Human Resource	Supervisors	1
	Helper	1
	Driver	2

Contractor's Responsibility: Installation of Weigh Bridge and allied facilities

- Establishment of dumpsite as per approved designed standards by the client
- The contractor will establish a pit-less weighbridge of size 30 feet x 10 feet (30' x 10'), including its supporting structure made of steel with a size of 600 x 200mm x 9 feet 6 inches.
- The cross girder (26 No.) will consist of I-beam, measuring 200 x 100mm x 9 feet 6 inches.
- The supporting girders (02 No.) will be 200 x 100mm x 9 feet 6 inches, incorporating an MS plate of 12mm plate (30 x 10) feet
- Load cell (04 No.) with 40 tons' capacity each
- Junction box (01 No.) compatible.
- The weighbridge will have a lane size of 30 x 10 feet and a weighing capacity of 60 tons.
- All necessary accessories will be included, and fitting installations will be completed as part of the job. RFID System (complete trunk key solution), IP Cameras, UPS & Generator, Controller, Desktop Computer, AC, AVR (Automatic Voltage regulator) etc.
- Rigid pavements (RCC slab, compacted base course etc.) of minimum 1 feet thickness & length approx. 15 feet on each side of Weigh Bridge as per client approved designed.



- Additionally, the contractor will establish an operator room with a minimum size of 20 x 12 feet, incorporating all necessary facilities such as a toilet, kitchen as per approved designed by client.
- Contractor will build security guard room on top of operator room as per approved designed by the client.
- Weigh bridge control will be in the custody of client i.e. MWMCO. Contractor will only establish and maintain R&M related works
 - Contractor will deploy resources as per client designed criteria.
 - Dumpsite management and maintenance on regular basis as per designed criteria
 - Leveling, compacting and Soil Covering & sprinkling of collected leachate on dumped waste.

V. Zero Waste Activities

The contractor will conduct at least following zero waste activities:

- vii. At the time of Tehsil takeover (Once in the whole contract life)
- viii. At least three to four times in a year or as per clients' requirement at different times done within scope of work

• One Time Cleaning and Rehabilitation/Reclamation of Existing Dump site:

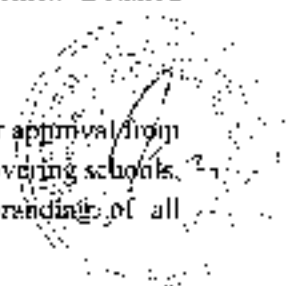
- Client may ask to contractor to perform one time cleaning activity for removal of all backlog of waste present in the area identified by the contractor for the approval of the client. For the said activity the contractor will identify the hotspots carrying backlog waste, including open plots, open heaps, depressions etc. along with the coordinates. The contractor will get the list of these identified hotspots approved from the client and will get them clear accordingly.
- Client may ask to contractor for rehabilitation/reclaiming of existing dumpsite with proposed mechanism identified by the client. The prices of the above two activities will be decided by the client and contractor and intimated to the contractor after the approval of the BOD of Client
- In the future, if GOPb establishes MRFs in the respective Tehsils, the contractor may be asked to segregate waste at TCPs. Further, its transportation to the MRF's. Payment for this additional work will be made later, subject to the approval of the client's BOD as per contract

W.Revenue Collection

Contractor will be responsible for revenue collection in entire tehsil. Detailed mechanism of revenue collection, is explained in sub heading 11.

X. Public Awareness Campaign

The contractor's plan will include a public awareness campaign, subject to prior approval from the client. The contractor will submit a detailed micro plan for the campaign, covering schools, residential areas, and commercial areas. Contractor will ensure proper branding of all



containers, hand carts, waste drums and operational fleet as per the design / specification approved by the client.

5. Required Resources

5.1. Human Resource

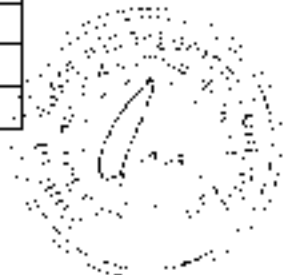
Table Required IIR

Sr. #	Description	Urban	Rural	Dump Site	Total
1	Sanitary Workers	179	466	0	646
2	Sanitary Supervisors	2	36	1	39
3	Helpers	12	162	1	175
4	Drivers	19	190	2	211
	Total	212	854	4	1071

5.2. Machinery

Table Required Machinery

Sr. #	Type of Vehicles	Urban	Rural	Total
1	Loader Rickshaw	8	144	152
2	Tractor Loader	1	6	7
3	Tractor Trolley	3	18	21
4	Tractor Loader 4 Wheels	1	2	3
5	Dumper Truck 10m ³	3	3	6
6	Dumper Truck 5m ³	0	3	3
7	Mechanical Sweeper	1	4	5
8	Tractor Blade	1	4	5



9	Tractor mounted Water Bowser	1	2	5
10	Sucker Machine	0	1	1
11	Drain Cleaner	0	1	1
	Total	19	190	209

5.3. Tools & Equipment

Table 21 Required Tools & Equipment

Tools & Equipment			
Description	Urban	Rural	Total
Hand Carts	50	117	206
Skips			
Containers 10m ³			
Containers 5m ³			
Total	90	117	206

5.4. Dumpsite Machinery

Table Required Machinery for Dumpsite

Sr. #	Description	Total
1	Dumper (10m ³)	1
2	Front End Loader	1
	Total	2

Number of vehicles / machineries may be changed with the prior approval from Board of Directors-MWMC keeping in view the same volumetric capacity.

6. Comparison

6.1. Human Resource

Table 22 Comparison of HR

HR				
Sr. #	Description	Existing	Required	Difference
1	Sanitary Workers	505	645	60
2	Sanitary Supervisor	0	39	39
3	Drivers	0	211	211
4	Helper/Balidar	0	175	175
	Total	505	1071	465

6.2. Machinery

Table 23 Comparison of Machinery

Machinery (excluding Landfill Machinery)			
Type of Vehicles	Existing	Proposed	Difference



Tractor Rickshaw	47	152	105
Tractor Loader	4	7	3
Tractor Trolley	6	21	15
Tractor Loader 4 Wheel	2	4	4
Dumper Truck 10m3	0	7	7
Dumper Truck 5m3		7	5
Mechanical Sweeper	0	5	5
Tractor Blower	0	5	5
Tractor mounted Water Sprayer	0	5	5
Sucker Machine		1	1
Drum Cleaner		1	1
Container Lifter Arm 20'	0		
Min. Tipper	0		
Compactor	0		
Total	57	211	154

6.3. Tools & Equipment

Table 24 Comparison of Tools & equipment

Tools & Equipment			
Description	Existing	Proposed	Difference
Hand Carts	50	206	156
Shovels	0		
Containers 10m3	0		
Containers 7m3	0		
Containers 4m3	0		
Brooms		2141	
Line		292	
Uniform		2141	
Masks		2141	
Gloves		2141	
ICP Cost	0	3	3
Bumping Mgt Cost			1
Monitoring Cost		1	1
Public Awareness		1	1
Total	50		



19. Special services on Special Events

The contractor will ensure special cleanliness services and availability of requisite resources for special events including:

- Eid-ul-Fitr
- Ramadan
- Eid-ul-Adha
- Muharram
- Eid Milad-unNabi
- Christmas
- Any other event or emergency

The contractor will prepare proper SWM plan prior to each event for execution accordingly. The SWM plan should cover:

- Standard Operating Procedure (SOPs)
- Hotspots as per the event
- Resources Required

20. Overall Monitoring of Operations

The client will develop a digital monitoring system, which will be used for measuring work progress for quality assurance and payment purposes. The Digital Monitoring System will report on predefined Key Performance Indicators (KPIs). It will be IT-based and include field monitoring by the client's supervisory team, village/ward committee notified by the client (VTMS/Digital Monitoring Mechanism).

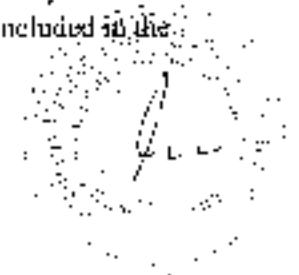
Moreover, *Work Satisfaction Stakeholder Committee (Village/Ward Committee)* will also be constituted. The committee will consist of representatives from the public, who will be asked to report on the work satisfaction from the public perspective and can be linked with the payment mechanism. The Stakeholder Committee will be formulated by the client, and its members will be decided within a reasonable time from the contract signing. The role of the committee is purely voluntary and will not supersede the management's opinions.

Further, the client will also nominate its committee to resolve any disputes regarding work verification.

In the case of the digital monitoring system being non-functional, the payment will be processed based on the submission of a verification report by the monitoring team of the client clearly based on the performance indicators.

21. Human Resource Management

For overall execution of Operations as per plan and its supervision, Sanitary Supervisors are proposed for the overall SMW management. One Supervisor is proposed for 25 Sanitary Workers in both Urban and Rural areas. Administration cost (2% of the operations cost) is included in the project cost.





22. Cost Estimates

Waste Collection (Tons per Day)	321
Annual Estimated Cost (Rs. in Millions)	1090.73
Cost per Ton (Rs.)	9236
Cost per Capita per Month (Rs.)	100.29

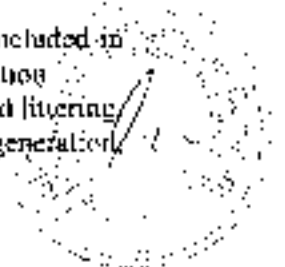
Note: The rental value of the machinery includes depreciation, R&M, and a 15% profit. However, depreciation is calculated over 5 years with a 15% residual asset value.

Note:

- Life of 0.8m³ containers 2 Years
- Life of 5m³ containers 3 years
- IIR Cost is tabulated below:

Particulars	IIR Cost / Employee / Month
Sanitary workers	41,440
Supervisors	44,620
Helpers	1,440
Drivers	44,620

- IIR cost includes salary, social security, EOB and GLI
- IIR cost of existing staff is not included in cost estimates. Only the deficit staff IIR cost included in Cost estimates.
- Total cost including of all taxes
- Escalation factor based on minimum wage of PKR 37,000/month as on July 04, 2024
- Escalation factor based on high speed diesel price of PKR 377.45 per liter as per PSO as on July 04, 2024
- 3% of operational cost per year is included for special events: Eid Ul Azha/zero waste activity
- 1% of operational cost per year is included as contingency.
- Rental cost of existing resources not included in cost estimates.
- Fitness certificate & emission reports from transport department will be mandatory for rented vehicles
- Cost of Temporary collection points and waste enclosures is included in cost estimates
- Janitorial material (broom, lime etc.), PPE (masks, Gloves etc.), uniform Hand carts cost included in cost estimates
- Cost of PKR 200,000/- per month for public awareness also included in cost estimates
- Hand cart life 1 year.
- Cost estimates are based on 26 working days in a month
- Monitoring cost of PKR 800,000/- per month (annual PKR 9,600,000/-) included in cost estimates which will be recovered from the contractor after implementation
- All waste carrying/transportation vehicle should be covered properly to avoid littering
- Required machinery and IIR is estimated based on the population and waste generation for evaluation purpose.





7. FEE COLLECTION BY CONTRACTOR

I. Fee Collection Responsibilities:

The contractor providing sanitation services in the Tehsil shall also be responsible for fee collection from the households and commercial entities etc. on the prescribed rates by GOPb and based on the customer database to be provided by the client.

II. Administrative / Collection Charges:

The contractor will be entitled to administrative / collection charges at the incremental / slab based ratios prescribed below in Table 11.1 for the amount of fee collected. However if the contractor fails to collect the desired target (25%, 40%, 50% for year 1, 2, 3 respectively), the contractor shall be penalized at the incremental / slab based ratios prescribed below in Table 11.2.

III. Fee Deposit and Payment Process:

- The Contractor shall deposit full amount (100%) of fee collected into the bank account provided by MWMC.
- The contractor will submit separate invoice for administration charges on the fee collected on monthly basis.

IV. Commencement of Fee Collection:

Fee collection from households and commercial entities etc shall commence on a date specified by the client but not later than four months after the execution of the contract. However contractor will ensure zero billing to consumers in that period.

V. Digital Billing System:

MWMC will establish a digital billing system to facilitate the contractor in fee collection.

VI. Enforcement of Bill Recovery:

MWMC, local governments and the District Administration will enforce and facilitate the bill recovery mechanism under the powers granted to them by the Local Government Act and applicable rules.

VII. Fee Charges Compliance:

The contractor is obligated to collect and submit fee charges according to the rates notified by the Government of Punjab (GOPb.)

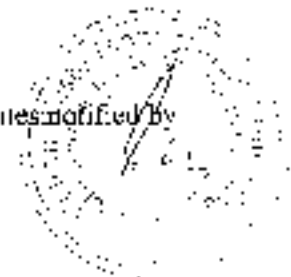


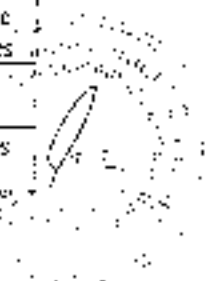


Table-11.1: Admin. / Collection Charges Mechanism for Fee Collection

Fee Collection Target (of assessed value)	Fee Collected	Contractor Share / Admin. Charges
25% (1 st Year)	25%	10% of the Fee Collected
	25% to 50%	10% + 15% of the additional collection
	50% to 80%	10% + 15% of the additional 25% + 20% of the remaining
	80% to 100%	10% + 25% of the additional 25% + 20% of the additional 50% collection + 25% of the remaining
40% (2 nd Year)	40%	10% of the Fee Collected
	40% to 60%	10% + 15% of the additional collection
	60% to 80%	10% + 15% of the additional 20% + 10% of the remaining
	80% to 100%	10% + 15% of the additional 20% + 20% of the additional 20% + 25% of the remaining
60% (3 rd Year)	60%	10% of the Fee Collected
	60% to 80%	10% + 15% of the additional collection
	80% to 100%	10% + 15% of the additional 20% + 20% of the remaining

Table-11.2: Penalty Mechanism for Below Fee Collection Target

Fee Collection Target (of assessed value)	Fee Collected	Contractor Penalty
25% (1 st Year)	>20% to <35%	No Administrative / Collection Charges to the Contractor, No penalty
	>15% to ≤20%	No Administrative / Collection Charges & 1% deduction from the monthly Invoice of the Contractor against SWM Services
	>10% to <15%	No Administrative / Collection Charges 2% deduction from the monthly Invoice of the Contractor against SWM Services
	>5% to ≤10%	No Administrative / Collection Charges 5% deduction from the monthly Invoice of the Contractor against SWM Services
	Less than 5%	Termination proceedings under the contract
40% (2 nd Year)	>25% to <40%	No Administrative / Collection Charges to the Contractor, No penalty



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANAWAL



60% (3 rd Year)	>15% to <25%	No Administrative / Collection Charges 1% deduction from the monthly Invoice of the Contractor against SWM Services
	>10% to <15%	No Administrative / Collection Charges 2% deduction from the monthly Invoice of the Contractor against SWM Services
	>5% to <10%	No Administrative Charges 5% deduction from the monthly Invoice of the Contractor against SWM Services
	Less than 5%	Termination proceedings under the contract
	>30% to <60%	No Administrative Charges to the Contractor, No penalty
	>20% to <30%	No Administrative Charges 1% deduction from the monthly Invoice of the Contractor against SWM Services
	>10% to <20%	No Administrative Charges 2% deduction from the monthly Invoice of the Contractor against SWM Services
	>5% to <10%	No Administrative Charges 5% deduction from the monthly Invoice of the Contractor against SWM Services
	Less than 5%	Termination proceedings under the contract

8. PUBLIC AWARENESS CAMPAIGN

Contractor will ensure proper branding of all containers, hand carts, waste drums and operational fleet as per the design / specimen approved by the client.





MILESTONES, TIMELINES, KPIS AND PENALTIES

DIGITAL PERFORMANCE MONITORING MECHANISM

Resource based contract pricing (based on HR, Fleet and Allied Equipment).

Proposed Payment Mechanism

- HR will be monitored through Facial/Biometric/Android Recognition based Attendance System
- Waste Collection & Disposal through digital monitoring system at Landfill Site.
- Machinery will be monitored through Artificial Intelligence based Fleet Management Software.
- Container Clearance will be monitored through Digital Monitoring of Fleet and Geo-Tagging of Containers.
- Manual Sweeping and Commercial Areas clearance will be monitored through Digital Monitoring System (pictorial evidence).
- Complaint Management Response Time.
- Execution of Weekly and Monthly plans.

Penalties will be applied through evidence based digital monitoring system in violation of the KPIs.

Contractor's Performance will be monitored digitally through:

1. Digital Monitoring System for staff attendance, service delivery compliance and KPIs monitoring (Facial/Biometric Recognition, Geo-tagged before after pics, field mentoring through evidence based real time information)
 - i. Smart AI based Fleet Management System in all vehicles to check the compliance of each category of vehicle w.r.t operational plan
 - ii. RFID based Vehicle Weighing System at Landfill Site for actual waste collection value transported to disposal site.
 - iii. Complaint Redresser System (CRS) through: Help Line and Dastak App.

Contractor shall submit operational plans before execution of the operations for client review and approval. Plans will be based on optimal utilization of resources for each activity with defined resources and timeline and to ensure the compliance of work as per SOP/KPIs defined by the client.



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANNA



Proposed Payment Mechanism

(The invoice calculation will be based on daily working w.r.t parameters evaluated on daily basis)

Sr. No	Activity	% Value	Key Factors/Variables	KPIs	Numbers
1	Waste Collection (Tonnage Based value)	60	1. Waste Disposal through Digital Weighing System.	<ul style="list-style-type: none"> Real time VTCS Report / Trip Counting Application. Contractor has to ensure minimum 75% waste transportation defined by the client at dump site for safe disposal. 71%-75% of total tonnage, 10% invoice value will be deducted 51%-70% of total tonnage, 20% invoice value will be deducted. 51%-60% of total tonnage, 30% invoice value will be deducted Below 50% of Total Tonnage, 40% will be deducted. 	40
			2. Container Collection/Clearance as per KPIs.	<ul style="list-style-type: none"> Deduction of waste collection activity of that day in case non-compliance by complaints/observation/VTMS number increased to 10% of total containers approved as per plan. 	3
			3. Deployment of Fleet as per Plan and KPIs.	<ul style="list-style-type: none"> In case, deficiency number increased to 10% or above, deduction of waste collection activity of that day. 	3
			4. Door to Door Waste Collection as per SOPs and KPIs.	<ul style="list-style-type: none"> 90 % Compliance of approved plan is mandatory. Processing will be monitored through deployment of resources, area coverage and verification by area officer/committee. 2 point deduction of activity in case non-coverage is between 1-15% 5 point deduction in case non-coverage varies from 16-20%. Full deduction in case non-coverage increases above 20% 	10
			5. Collection from Commercial Areas as per KPIs	<ul style="list-style-type: none"> 1 point deduction of activity in case non-coverage is less than 10%. 2 point deduction in case non-coverage varies from 11-20% Full deduction in case non-coverage increases above 20% 	2
			6. Deployment of Containers as per Plan and KPIs.	<ul style="list-style-type: none"> In case, deficiency number increased to 10% or above, deduction of waste collection activity of that day Container repair and aesthetics has 	2
			7. Deployment of Containers as per Plan and KPIs.	<ul style="list-style-type: none"> In case, deficiency number increased to 10% or above, deduction of waste collection activity of that day Container repair and aesthetics has 	2

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHAMBHAL



				to be ensured by contractor	
2	Manual Sweeping (Number of Workers as per plan vs Actual Present)	15	1. Minimum Attendance for sanitation staff (75%) and Managerial staff (90%).	<ul style="list-style-type: none"> • Work deduction of the Manual sweeping activity in case of deficiency number exceed from 25% absents (below 75%). • Deduction of manual sweeping activity of that day in case number increased to 50 complaints/observations per day regarding absent of worker. 	05
			2. Street Sweeping (Residential commercial) Clearance as per KPIs	<ul style="list-style-type: none"> • Deduction of manual sweeping activity of that day in case number increased to 100 complaints/observations per day. 	05
			3. Street Sweeping (Commercial) Clearance as per KPIs	<ul style="list-style-type: none"> • Deduction of manual sweeping activity of that day in case number increased to 50 complaints/observations/day. 	1
			4. Workers Presence at Beats in duty hours	<ul style="list-style-type: none"> • Deduction of manual sweeping activity of that day in case number increased to 100 complaints/observations per day regarding absent of worker. 	2
			5. Workers allied equipment (uniforms, PPEs, Handcarts, Brooms, Bags etc.) availability as per plan and KPIs	<ul style="list-style-type: none"> • Work deduction of the manual sweeping activity in case of deficiency number exceed from 10% of total of non-provision in any of the category mentioned individually/collectively. 	2
3	Mechanical Sweeping (Km Covered as per plan)	3	1. Deployment of Resources as per plan and KPIs	<ul style="list-style-type: none"> • In case, deficiency number increased to 10% or above, deduction of Mech sweeping activity of that day. 	3
			2. Work done/completion as per Plan and KPIs	<ul style="list-style-type: none"> • Work deduction in case of activity impact is less than 90% (not as per the SOPs.) 	
4	Mechanical Washing (Km Covered as per plan)	2	1. Deployment of Resources as per plan and KPIs	<ul style="list-style-type: none"> • In case, deficiency number increased to 10% or above, deduction of Mech. washing activity of that day. 	2
			2. Work done/completion as per Plan and KPIs	<ul style="list-style-type: none"> • Work deduction in case of activity impact is less than 90% (not as per the SOPs.) 	
5	TCP/Waste Enclosures Management	05	1. Establishment of TCPs as per Timelines, plan and KPIs	<ul style="list-style-type: none"> • Establishment of TCP should be done within the timeline defined by the client. Till non-compliance, payment will not be released in this chapter. 	

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANNAWAL.



		2. Infrastructure of TCPs as per plan and KPIs	<ul style="list-style-type: none"> Deduction in case of non-completion observed even on one non-compliance 	02	
		3. Zero Waste Transportation of Waste to Dump Site as per plan and KPIs	<ul style="list-style-type: none"> Work deduction in case of non-compliance observed against the plan approved by the client 	03	
6	Bulk Waste Collection (C&D/AW) (Tonnage Based value)	05	1. Waste Disposal through Digital Weighing System	<ul style="list-style-type: none"> Real time MICS Report through waste transported to designated dump site 	02
			2. Deployment of dedicated fleet as per Plan, SOPs and KPIs	<ul style="list-style-type: none"> Deduction of waste collection activity of that day in case deficiency number increased to 10% of total number to be deployed/day 	
			3. Collection of Bulk Waste as per Plan, SOPs and KPIs	<ul style="list-style-type: none"> Deduction of waste collection in case of un-approved vehicle/trip by client.		03
7	Dumpsite Management	05	1. Availability of Machinery and HR as per plans, SOPs and KPIs	<ul style="list-style-type: none"> Deduction of waste disposal activity of that day in case deficiency number increased to 10% of total number to be deployed/day. 	02
			2. Environment friendly disposal of waste as per plan, SOPs and KPIs.	<ul style="list-style-type: none"> Deduction of waste disposal activity of that day in case non-compliance observed 	03
8	De Silting	05	1. Deployment of Resources as per plan and KPIs	<ul style="list-style-type: none"> In case, deficiency number increased to 10% or above, deduction of De-silting activity of that day 	2
			2. Work done/completion as per Plan and KPIs	<ul style="list-style-type: none"> Work deduction in case of activity impact is not as per the SOPs. 	3
Total		100			100

Key Notes: Mechanism to verify DFD area collection, Dump Site Management for environmental friendly disposal of waste, de-silting activity, TCP management, Bulk waste collection etc will be part of operational plan submitted by the contractor for approval of client based on SOPs. KPIs devised by client



OPERATIONAL PLANS

Contractor will submit the operational plans against each activity and MWMC will approve after reviewing the plans before execution of services under the contract. Any change / modification in plan after execution of contract shall be approved by the Chair (With prior consent / approval of Board of Directors)

Plan of Washing of Containers	
Plan of Repairing of Containers	
Deployment plan for Emergency Response Gang/Complainers/VVIP Movement	
Contractor will submit GIS based UC level operational model plan with resources covering Door to Door & Container base collection, manual sweeping and waste transportation based on GIS Mapping.	
De-silting Plan with deployment of resources both HR and Mechanical ensuring removal of De-Silted material.	
Sunday/Friday Market Cleaning Plan	
Mosque/Church/Inam Bargahs/Grave Yards cleaning/Washing Plan	
City Furniture Washing Plan	
Plot Clearance Plan	
Mechanical Sweeping and Mechanical Washing Plan	
Distribution Plan of Uniforms and PPEs	
Health and Safety Training Programs of Staff	
Plans of Counselling of field workers	
Execution Plan	
Procurement Plan	
Waste Recycling and Recovery Plan	
HSE Plan	
Ramzan Bazar Cleaning Plan	
Eid-ul Fitar & Eid ul Azha Plan	
Eid Milad Nabi Plan	
9 th & 10 th Muharram	
Monsoon Plan	
Kashmir Day(5 th February), Defence Day (6 th September), 25 th December, 31 st December / 1 st January (New Year) etc.	





PROPOSED MONITORING MECHANISM

Submission of operational plans of each activity i.e. DTD, CBC, Mech, Sweeping, Washing, T.C.P Clearance etc.	At the time of execution of operations	The Client shall review these operational plans once received by the Client. Client Approval is mandatory for execution of the plan.	<ol style="list-style-type: none"> 1. The service provider will submit the plans 15 days before the execution. 11ac/day penalty will be charged for delay. 2. In case of failure, termination of the contract will be issued.
Deployment of vehicles for each activity as per Plan approved by the client. (number and type of vehicles as per the activity schedule time)	Daily	VTMS and/or RFID System at Workshops (As per execution plan).	<ol style="list-style-type: none"> 1. 10,000/vehicle/day in case of failure to deploy. 2. 2,000/vehicle/hour for delay in deployment. 3. In case, the deficiency number increased to 10% or above, 3% deduction of Invoice of that day.
Contractor will ensure the best working condition of all its vehicles by all means	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 1. 5,000/vehicle/day in case of breakdown in field. 2 hours resolution time after intimation will be observed for compliance. 2. 2,000/vehicle/day for delay in improvement of aesthetics of vehicle. 3. 5,000/vehicle/incident for un-covered transportation of waste.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT BHAKRAWAL



<p>Contractor will place at least (270) 0.5cm containers and (7) 5cm Containers in Inset Tehsil Name (Area operational plan); with good aesthetic and working condition by all means.</p>	<p>Daily</p>	<p>IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.</p>	<ol style="list-style-type: none"> 1. 5,000/container/day in case of failure/shortage. 2. 2,000/container/day for delay in repair 3. 2,000/container/day for delay in improvement of aesthetics of container. 4. In case, deficiency number increased to 10% or above, 2% deduction of invoice of that day.
<p>Door to Door collection from Residential Areas</p>	<p>Daily</p>	<p>IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.</p>	<ol style="list-style-type: none"> 1. 2000/incident for non-compliance observed by supervisory officer, UC/Ward Committees or public Complaints. 2. In case of citizen complaint, 3 hours resolution time after intimation will be observed for compliance 3. Deduction of 10% of invoice of that day in case number of observations/non-compliance/complaints increased to 100 per day.
<p>Ensure collection of all other wastes (i.e. Green Waste, animal waste, bulk waste etc.) Dedicated</p>	<p>Daily</p>	<p>IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.</p>	<ol style="list-style-type: none"> 1. 10,000/vehicle/day in case of failure to deploy. 2. 2,000/vehicle/hour for delay in deployment after intimation to the contractor.



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KANBHAL



	vehicles to be deployed.			
	Ensure no waste scattered around bins	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 2,000/container-incident. 2 hours resolution time after intimation will be observed for compliance. 3% deduction of Invoice of that day in case number increased to 10% of total containers approved as per plan.
	Special Occasions waste collection (Fid and other public holidays)- Deployment of Resources as per plan issued by the Client	On Special Occasions	Client shall through Digital Monitoring Mechanism as well field monitoring through its employees /third party notified by the client on daily basis.	<ol style="list-style-type: none"> 50,000/vehicle/day in case of failure to deploy. 10,000/vehicle/hour for delay in deployment. Deduction of 50% of invoice of that month in case contractor failed to execute at least 80% compliance of plan.
	Completion of manual sweeping on main roads/commercial markets should be completed before 9:00am	Daily	IT based as well as field monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 5,000/incident after 2 hours intimation to contractor. In case of citizen complaint, 3 hours resolution time after intimation will be observed for compliance. 5% deduction of waste collection/manual sweeping activity of that day in case number increased to 50 complaints/observati

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANENAL



			ms./Town/day regarding absent of worker or non-compliance of manual sweeping.
Completion of manual sweeping in residential areas should be completed before 10:00 AM.		IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 2,000/incident After 2 hours intimation to contractor In case of citizen complaint, 3 hours resolution time after intimation will be observed for compliance. 5% deduction of waste collection/manual sweeping activity of that day in case number increased to 100 complaints/observations/Town/day regarding absent of worker or non-compliance of manual sweeping.
Sweeping and collection of waste from Sunday/ Friday Markets within 01 hour after its closure and before 06:00 AM on Monday/ Saturday.	Weekly	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VFMS/Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 50,000/incident/market.
Ensure agreed number of manual sweepers available in each UCs as per	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client.	<ol style="list-style-type: none"> 2,000/worker/day in case of absence. 5% deduction of Invoice of that day in case number increased to 50

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT ERANWAL



plan approved by the client.		Digital Monitoring Mechanism	complaints/observations/Towrs/day
Presence of staff in Sunday/ Friday markets as per plan	Weekly	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	1. 5,000/worker/incident (in case of absence after 1 hour of intimation to contractor.
Dedicated vehicles (vehicle dually approved by the Company for each trip) for Collection of C&D /CIW/Animal Waste as per plan	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism	1. 10,000/vehicle/incident in case of non-deployment of resources. 2. 100% deduction of waste collection in case of un-approved vehicle/trip by client. 3. 2% deduction of Invoice of that day in case number increased to 10% of total number to be deployed/violation/day.

Contractor will ensure 100% availability of vehicles along with backup vehicles for each activity.	Before the execution of the contract/services	Contractor will submit copies of documents for each vehicle registered with Excise and Taxation	1. The service provider will submit the documents 15 days before the execution. 11a/day penalty will be charged for delay. 2. In case of failure, termination of the contract will be terminated.
Operational Number of Vehicles per day shall not less than 90% of the agreed quantity	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client VTMS/Digital Monitoring Mechanism	1. 10,000/vehicle/day in case number increased to 8% - 10%. 2. 50,000/vehicle/day in case number increased from 10% - 15%. 3. 100,000/vehicle/day in case number increased from 15% - 20%.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KIANPWAT.



<p>Placement of total number of containers / Bins as per approved plan by the client within 15 days of execution of the contract. Placement plan should be submitted 15 days before the execution of the contract.</p>	<p>Daily</p>	<p>IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.</p>	<ol style="list-style-type: none"> 1. The service provider will submit the manufacturing/fabrication/procurement evidence 15 days before the execution. Late-day penalty will be charged for delay. 2. 5000/container/day will be applied in case of non- placement of container is less than 30% of the total number 3. Deduction of 1% of invoice in case deficiency number increased to 10%. Termination of Contract may lead if deficiency increased from 10%.
<p>Relocation of waste bins placed at improper places within 24 hours of intimation/complaint.</p>	<p>Daily</p>	<p>IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.</p>	<ol style="list-style-type: none"> 1. 2000/container/day
<p>Aesthetic of Container Paint/Washing / cleaning.</p>	<p>Daily</p>	<p>Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism</p>	<ol style="list-style-type: none"> 1. 5000/container/day 2. Deduction of 1% of invoice in case observations number increased to 10%
<p>Deployment/Provision of total number of Hand carts as per approved plan by the client within 15 days of execution of the contract. Provision plan should be submitted 15 days before the execution of the contract.</p>	<p>Daily</p>	<p>IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism</p>	<ol style="list-style-type: none"> 1. The service provider will submit the manufacturing/fabrication/procurement evidence 15 days before the execution. Late/day penalty will be charged for delay 2. 5000/handcart/day will be applied in case of non-provision of Hand cart.
<p>Collection vehicle shall be spillage proof. In case of the spillage on the roads while transportation. The Company shall be penalized</p>	<p>Daily</p>	<p>Field-based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism</p>	<ol style="list-style-type: none"> 1. 10,000/incident
<p>100% Clearance of Fly Tipping</p>	<p>Daily</p>	<p>Field based monitoring by the Client/third party notified by the client by Digital</p>	<ol style="list-style-type: none"> 1. 10,000/incident



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KJANFWAJ.



		Verifying Mechanism	
Aesthetic of vehicle Paint/Washing/cleaning.	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism	1. 25,000/vehicle/day
Deployment/Provision of all allied equipment (Uniforms, Brooms, Shoes, Gloves, Jackets, Bags, Lime, Phenyl, Scrapping Tools etc) as per approved plan by the client within 15 days of execution of the contract. Provision plan should be submitted 15 days before the execution of the contract.	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism	<ol style="list-style-type: none"> The service provider will submit the manufacturing/fabrication/procurement evidence 15 days before the execution. 1lac/day penalty will be charged for delay. 2000/incident/day will be applied in case of non-provision 2% Work deduction of manual sweeping activity in case number of complaints/observations increased to 100 individually/collectively
Contractor will ensure fitness certificates of each vehicle from concerned Govt. Department/Agency on annual basis. Certificates must be submitted in 1st quarter of each calendar year.	Daily	Provision of Certificates by the Contractor	1. 10,000/vehicle/day in case of non-compliance.

100% of the tanks of the mechanical sweepers/Washers should be full of water before vehicles departs from the workshop.	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism	1. 10,000 / incident
Completion of the task by each vehicle as per schedule approved by the Client.	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 10,000 / incident' over speed working 2% deduction of total invoice of that day in case of activity impact is not as per the SOPs.
There should be zero dust layer on the road after Mech. Sweeping/Washing	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism	1. 3% deduction of total invoice of that day in case of activity impact is not as per the SOPs.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANWAL



Brushes should in acceptable conditions to ensure quality sweeping.	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism.	1. 10,000 / incident
Emptying of mechanical sweeper at notified disposal points.	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism.	1. 30,000 / incident
Mechanical sweeping should be completed before 05:00 AM in case of night operation.	Daily	IT based as well as filed monitoring by the Client supervisory persons third party notified by the client. VTMS/Digital Monitoring Mechanism.	20,000 / incident
The working speed of mechanical sweeper not more than 15 kilometres per hour.	Daily	IT based as well as filed monitoring by the Client supervisory persons third party notified by the client. VTMS/Digital Monitoring Mechanism.	1. 10,000 / incident
Helpers should be present with vehicle as per plan	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism.	1. 10,000 / incident
In case of complaint deployment of required number of vehicles within 02 hour	Daily	Field based monitoring by the Client/third party notified by the client by Digital Monitoring Mechanism.	20,000 / incident

The transfer station will be operational 24/7 except maintenance days. In case it is non-operative the Company has to make it operational within 24 Hrs of Client Notice	Daily	IT based as well as filed monitoring by the Client supervisory persons third party notified by the client. VTMS/Digital Monitoring Mechanism.	1. 100,000 / incident / day
--	-------	---	-----------------------------

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANWAL



Keep the Transfer Station at zero on daily basis.	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	1. 5% deduction of total invoice of that day in case of non-completion observed.
Transfer Stations must be covered (10% high walls) surrounding covered by plantation.	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	1. 5% deduction of total invoice of that day in case of non-completion observed.
Platform of Transfer Station must be solid, to avoid any digging of soil causing ground contamination.	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	1. 5% deduction of total invoice of that day in case of non-completion observed.

Attendance of the Workers should not be less than 75% of the workforce (As per the activity plan)	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 5,000 / worker/day Deduction of manual sweeping activity of that day in case number increased to 50 complaints/day regarding absence of worker. 10% deduction of invoice of that day in case of number exceed from 75% absents.
Attendance of Supervisory and management staff should not be less the 90% in any case	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.	<ol style="list-style-type: none"> 25,000 / staff/day 10% deduction of invoice of that day in case of number exceed from 25% absents.
100% workers of all categories shall wear uniform.	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.	1. 5,000 / worker/day
Attendance of workers should be completed before 6:00 A.M (at designated time & location approved by the client)	Daily	IT based as well as filed monitoring by the Client supervisory persons/third party notified by the client. VTMS/Digital Monitoring Mechanism.	1. 25,000 / incident/day

(Handwritten signature and stamp)

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANNA



	at the designated locations.		
	Sweeping staff should be working in their respective beats.	Daily IT based as well as field monitoring by the Client supervisory persons/third party notified by the client. VIMS/Digital Monitoring Mechanism	1. 5,000 worker/day



Section-IV: Bid Data Sheet





4.1. Bid Data Sheet (BDS)

A. Introduction				
BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders		
1.	2.1.1	Name of the Procuring Agency: Multan Waste Management Company (MWMC) The subject of procurement is: <u>OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES)</u> The Procuring Agency wishes to conduct National competitive bidding process for the subject procurement as per the TORs / Scope of Services defined in Section-III of this Bidding Document. However, The Procuring Agency is not bound to accept any or all Bids and reserves the right to annul the Bidding Process at any time prior to award of the Contract without thereby incurring any liability to the Bidders. A bidder can bid in as many tehsils as he like in same district and contract may also be awarded for as many tehsils as he won being the lowest against non-identical resources regarding availability of Bank Balance / Credit Limit, Specialized Machinery & Key Personnel.		
		2.	2.1.2	Financial year for the operations of the Procuring Agency: [2024-25]
		3.	2.1.3 (v)	Name of financing institution: <u>Government of the Punjab.</u> Alteration / amendment in a JV / Consortium (formed at pre-qualification stage) shall not be allowed.
		4.		Ineligible country(s) is India & Israel
B. Bidding Documents				
5.	2.2.2	The address for clarification of Bidding Document mentioned below. <i>The contact information for requesting clarifications is as under:</i> Manager P & C Local Government & Community Development, Department, Government of Punjab, Building No. 175/183, Ward # N.E.N. Shamsabad Colony, Near Changa Na. 10, Multan Pakistan. Tel: (+92)061-4310175; info.procurement@mwmc.com.pk		

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL



6.	2.2.2	<p>Pre-bid meeting will be held at below address with and date;</p> <p>July 18, 2024 Timing 11:00 Hours PST</p> <p style="text-align: center;">Manager P & C</p> <p style="text-align: center;">Local Government & Community Development, Department, Government of Punjab, Building No. 175/RR, Ward # NE-3, Shamshad Colony, Near Chengzi No. 09, Multan Pakistan. Tel: (+92)61-9330175; info.procurement@mwm.com.pk</p>
7.	2.3.8	<p>The number of documents to be completed and returned One original (01) and One True Copy of original and same will be signed by Authorized Person along with one soft copy in a separate USB.</p>
C. Bid Price, Currency, Language and Country of Origin		
8.	2.3.1	<p>The language of the Bid is English. All correspondence shall be in the English language.</p>
9.	2.3.3 (vi)	<p>Prices shall be fixed for contract period inclusive of all Applicable Taxes. However, price adjustment will be made at the time of invoice processing as specified in clause 9 of SCC.</p>
10.	2.3.4	<p>The price quoted shall be in PKR</p>
D. Preparation and Submission of Bids		
11.	2.1.3	<p>Mandatory criteria for District Khanewal:-</p> <p>// Pre-Qualified Bidders / Shortlisted Bidders are only eligible.</p>
<p>The deadline for Bid submission is;</p>		
<p>Date & Time: July 25, 2024 till 1400 Hours (PST)</p>		
12.	2.4.2	<p style="text-align: center;">Manager P & C</p> <p style="text-align: center;">Local Government & Community Development, Department, Government of Punjab, Building No. 175/RR, Ward # NE-3, Shamshad Colony, Near Chengzi No. 09, Multan Pakistan. Tel: (+92)61-9330175; info.procurement@mwm.com.pk</p>



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL.



13.	2.5.1	<p>Time, date/ Month/ Year, and place for Bid opening.</p> <p>Date & Time: July 25, 2024 at 1430 Hours (PST).</p> <p>The Proposal submission address is as under;</p> <p style="text-align: center;">Manager P & C</p> <p style="text-align: center;">Local Government & Community Development, Department, Government of Punjab, Building No. 335-011, Ward # NEX, Shamsabad Colony, Near Changi No. 09, Multan Pakistan. Tel: (+92)061-9930175. info.procurement@gmwat.com.pk</p>																				
14.	2.6.2	<p>Amount of Performance Guarantee: As per rule 56 of PPR-14, a performance guarantee at the rate of 05% of Contract Price for three years as offered by the contractor. The Contractor shall provide Performance Guarantee 3 months beyond project duration i.e. (Three Years) to the Client. The said guarantee shall be furnished or caused to be furnished by the Contractor within Fifteen (15) days after the receipt of the Letter of Acceptance.</p> <p>The Performance Guarantee shall be denominated in a currency of the Contract, or in a freely convertible currency acceptable to the Procuring Agency, and shall be in following form;</p> <p>An unconditional Bank Guarantee;</p> <p>Issued by any scheduled bank acceptable to the procuring Agency located in Pakistan; and in the form provided in the Bidding Document or another form acceptable to the Procuring Agency.</p>																				
15.	2.3.6	<p>Bid Security, in favor of Multan Waste Management Company shall be as per Rule # 27 of PPA Rules 2014 in shape of Bank Guarantee or any other form acceptable to the Procuring Agency. Bid Security should be submitted along with Technical Proposal.</p> <table border="1"> <thead> <tr> <th>Sr#</th> <th>Tehsil Name</th> <th>Estimated Cost in million PKR</th> <th>Bid Security in PKR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>LOT#1 TEHSIL KHANEWAL</td> <td>4,216.11</td> <td>20 million</td> </tr> <tr> <td>2</td> <td>LOT#2 TEHSIL KABIRWALA</td> <td>5386.79</td> <td>20 million</td> </tr> <tr> <td>3</td> <td>LOT#3 TEHSIL JAHANIAN</td> <td>2971.44</td> <td>20 million</td> </tr> <tr> <td>4</td> <td>LOT#4 TEHSIL MIAN CHANNU</td> <td>3272.20</td> <td>20 million</td> </tr> </tbody> </table>	Sr#	Tehsil Name	Estimated Cost in million PKR	Bid Security in PKR	1	LOT#1 TEHSIL KHANEWAL	4,216.11	20 million	2	LOT#2 TEHSIL KABIRWALA	5386.79	20 million	3	LOT#3 TEHSIL JAHANIAN	2971.44	20 million	4	LOT#4 TEHSIL MIAN CHANNU	3272.20	20 million
Sr#	Tehsil Name	Estimated Cost in million PKR	Bid Security in PKR																			
1	LOT#1 TEHSIL KHANEWAL	4,216.11	20 million																			
2	LOT#2 TEHSIL KABIRWALA	5386.79	20 million																			
3	LOT#3 TEHSIL JAHANIAN	2971.44	20 million																			
4	LOT#4 TEHSIL MIAN CHANNU	3272.20	20 million																			

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL



16.	2.3.7	Bid validity period after opening of the Bid is: 180 Days
17.	2.3.8	Number of copies of the Bid to be provided are: 01 True Copy of proposal. Note: In case of conflict between the Copy and Original Proposal, the original proposal will prevail.
E. Opening and Evaluation of Bids		
18.	2.3.4	Prices of Bid will be in PKR
F. Bid Evaluation Criteria		

		Evaluation Criteria to Bid;			
		<i>Below is the Technical Evaluation Criteria based on the Scope for (LOT#1 TEHSIL KHANEWAL) (LOT#2 TEHSIL KABIRWALA) (LOT#3 TEHSIL JAHANLAN) (LOT#4 TEHSIL MIAN CHANNU) each:</i>			
19	2.5.8	Sr.	Criteria	Requirement	Total Marks
		1	Financial Capability		30
		i	Average Annual Turnover of at least Rs.300 Million in last two (02) years • No Marks will be given if the Annual Audit Reports of last two years (2021-22, 2022-23) duly certified by chartered accountant are not attached.	<ul style="list-style-type: none"> • Full Marks if average annual turnover is Rs.500 million or more. • 50 % Marks if average annual turnover is less than Rs.350 million but greater than or equal to Rs.350 million. • No marks will be given if average annual turnover is less than Rs.350 million 	10
ii	Bank Balance, Credit Limit: If bank balance + credit limit up-to 24 th July, 2024 is equal to or more than Rs.100 million , full marks will be awarded. Otherwise, the marks may be awarded as: Closing balance + Credit Limit : 10	Proof of cash availability in terms of Bank statement, or available Credit facility must be provided not after than 24 th July 2024 <ul style="list-style-type: none"> • Availability of 50% Financial Resources: 03 Marks • Availability of 70% Financial Resources: 05 Marks 	20		

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHARWAL



	<p>No Marks will be given if bank balance or credit limit is less than Rs.50 million.</p> <p>No marks will be given if the latest valid Credit line certificate and Bank Statement up to five day before the bid submission date (i.e. July 25, 2024) is not attached.</p>	<ul style="list-style-type: none"> • Availability of 00% Financial Resources: 07 Marks 	
	<p>2. Proposed Work-Plan and Methodology</p>		
2.1	<p>Compliance of operational plan as per scope of work defined in Section-III covering the following major points:</p> <ul style="list-style-type: none"> ➤ Door to Door Collection ➤ Container Based Collection ➤ Manual Sweeping & De-silting ➤ Waste Disposal Strategy ➤ Secondary Collection & Landfill Site Management <ul style="list-style-type: none"> • Bidder will submit a detailed operational / execution plan explaining the methodology of waste collection, transportation and disposal of waste. • 40 Marks will be given if bidder's execution plan and methodology complies with the mentioned specifications / TORs. Marks will be evaluated by the Technical Committee. • If the bidder deviates from the mentioned specification / TORs, they will be evaluated & marked by the Technical Committee accordingly. <p>The decision of the Technical Evaluation Committee / Management Procurement Committee will be final in this regard.</p>	30	
	<p>3. Key Personnel</p>		
3.1	<p>Proposed Key Personnel</p> <p>The verification of engineers will be confirmed from Pakistan engineering council online website or verified through PEC acknowledgement receipts which must be Attached by the bidder.</p>	40	



Sr.	Qualification & Experience	Marks
i	One Project Manager having minimum sixteen years education in the field of Business Administration or related discipline with 5 years' or above relevant experience.	2 Marks of qualification & 8 Marks of experience
ii	One Engineer having minimum sixteen years education in the field of Environmental discipline with 5 years' or above relevant experience.	2 Marks of qualification & 8 Marks of experience
iii	One Engineer having minimum sixteen years education in the field of Mechanical Engineering with 5 years' or above relevant experience.	2 Marks of qualification & 8 Marks of experience
iv	One Engineer having minimum sixteen years education in the field of IT Engineering with 5 years' or above relevant experience.	2 Marks of qualification & 8 Marks of experience
Total Marks		100

- A bidder can participate in any tehsil by submitting non-identical resources for each tehsil regarding Bank Balance / Credit Limit, Specialized Machinery & Key Personnel as required above in Evaluation Criteria.
- The applicant must score 65 marks to qualify.

National Competitive Bidding shall be conducted under **Single Stage Two Envelope** bidding procedure with Least Cost method as stipulated in PPRA Rules 2014, as amended from time to time. The bid shall be a single sealed package consisting of two separately sealed envelopes, containing separately the Technical and Financial Proposal. The envelopes shall be marked as "Technical Proposal" and "Financial Proposal" as described in rule 38 (2) (a) of PPRA Rules 2014.

Note: Bidders shall fill the prices in the price schedule of this bidding document and shall submit the original bidding document in the financial bid. However, copy of the bidding document without price schedule will be submitted in the technical bid. Each page of the bidding document must be signed and stamped by the authorized person of the bidder.

Bids will be evaluated on the Basis of Lot wise Total Bid Price as per the Scope of services and contract will be awarded to the Lot wise lowest evaluated bidder.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANSEWAL



G. Award of Contract

20	2.6.5	Percentage for quantity increase or decrease is: 15% as per PPRA Rules 2014.
21	2.6.2	The Performance Guarantee shall be: 5% of Contract Price for Three Years
22	2.6.2	The Performance Guarantee shall be in the form of: Unconditional Bank Guarantee from any scheduled bank of Pakistan acceptable to the procuring agency having validity 3 months beyond the contract project duration





NOTIFICATION OF AWARD

[Date]

To:
[Name and address of the Successful Bidder]

Dates, expressly specified otherwise, all capitalized terms used herein shall have the meaning ascribed thereto in the Bidding Document.

This is to notify you that your Bid consisting of the Technical Proposal and the Financial Proposal dated ----- 2024 for execution of the Contract for Insert Tehsil Name (the "Contract") for the **Total Bid Price For Three Years** _____ (inclusive of all applicable taxes and other obligations as per TORs), as corrected and modified in accordance with the Bidding Document is hereby accepted by the Procuring Agency.

You are requested to furnish your performance guarantee as per bidding document and stamp papers as per stamp duty Act 1899 within Fifteen (15) days and thereafter sign the Contract within Three (03) days after the receipt of performance guarantee and stamp papers.

On the date of signing of the Contract you are required to provide the Required Documents (each to the satisfaction of the Procuring Agency). Failure to furnish the Letter of Acceptance, execute the Contract or furnish any of the Required Documents each within the aforesaid time period may result in cancellation of the award and forfeiture of the Bid Security.

This Notification of Award shall incorporate all Contracts made to the Bid (if any) agreed between the Procuring Agency and yourself. This Notification of Award shall constitute, subject to all terms and conditions of the Bidding Document except the changes or modifications agreed between yourself and the Procuring Agency, a binding contract between contractor and procuring Agency until the Contract is executed.

[Authorized Signature]

[Name and Title of Signatory]

[Name of Procuring Agency]





DRAFT CONTRACT

Contract No



Draft Contract

For

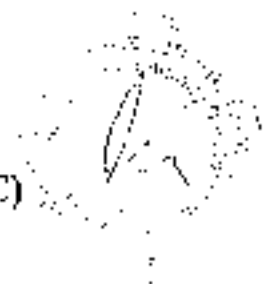
**OUTSOURCING OF SOLID WASTE MANAGEMENT
SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR
TEHSIL X (LOT # X)
(Rural & Urban Areas)**

Between

Contractor Name:

AND

Multan Waste Management Company (MWMC)





CONTRACT FORM

THIS CONTRACT is made on this _____ day of _____ 20____ by & between M/s **Multan Waste Management Company (MWMC)**, a company registered under Section 42 of the Companies Ordinance, 1984 (now Companies Act 2017) having its registered office at Local Government & Community Development Department, Government of Punjab Building No. 2250RB, Ward 9 NFN, Shamsul Uloom, Near Chungi No. 69, Multan Pakistan. Tel: (+92)661-8330125; info.pricuror@mwmc.com.pk (hereinafter referred to as "the Procuring Agency / Client") which expression, unless it be repugnant to the context or meaning thereof and shall, where the context so permits include its successors in interest, legal heirs, legal representatives, executors and permitted assign) on the one part.

AND

Service Provider Name _____ having its registered office at _____ (Hereinafter referred to as the "CONTRACTOR" which expression, unless it be repugnant to the context or meaning thereof means and shall, where the context so permit, include its successors in interest, legal heirs, legal representatives, executors and permitted assign) on the other part.

WHEREAS, the Client intends to award the Contractor for **OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES), FOR TERMI. X (Rural & Urban Areas)**" (Herein referred to as "PROJECT")

AND WHEREAS, the Contractor is willing to provide such services subject to and in accordance with the terms and conditions of this Contract in the sum of [contract price in words and figures] (hereinafter called "the Contract Price");

NOW THIS CONTRACT WITNESSETH AS FOLLOWS

1. In this Contract words and expressions shall have the same meanings as are assigned to them respectively in the Conditions of Contract.

2. The following documents shall be deemed to form and be read and construed as part of this Contract. In case of any interpretation, the following sequence of priority of documents will prevail:

- (a) The Bid Form and the Price Schedule submitted by the Bidder;
- (b) The Technical Specifications / TORs (Scope of Services);
- (c) The Special Conditions of Contract; and
- (d) The General Conditions of Contract;
- (e) The Procuring Agency's Notification of Award.
- (f) Addendum (if any)

3. In consideration of the payments to be made by the Procuring Agency to the Service Provider as hereinafter mentioned, the Service Provider hereby covenants with the Procuring Agency to provide the services in the project site in accordance with the provisions of the Contract and as required under Section VII Schedule of Requirements / Work Plan Deputation Plan.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE
RESOURCES) FOR DISTRICT KEANEWAL



4. The Procuring Agency hereby covenants to pay the Service Provider in consideration of the provision of services in project site, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF, the Parties hereto have, Hereunto set their respective hands through their authorized representatives executed and entered into this Contract on this day of _____, 2024.

For and on Behalf of Client

For and on Behalf of Contractor

**Multan Waste Management Company
(MWMC)**

WITNESSES:

CLIENT

CONTRACTOR



Section-V: Part I-General Conditions of Contract





I. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the Contract entered into by and between the Client / Procuring Agency and the service Provider / Contractor, as recorded in the Contract Form signed by the parties, including all attachments, appendices and annexures thereto and all documents incorporated by reference therein.
- (b) "The Contract Price" means the price payable to the Contractor / Service Provider under the Contract for the full and satisfactory performance of its contractual obligations to provide services in the project site as per the provisions laid down in the Contract.
- (c) "The Goods" means all the equipment, machinery, and/or other materials which the Service Provider / Contractor is required to supply to the Procuring Agency / Client under the Contract.
- (d) "Municipal Solid Waste (MSW)" includes all but not limited to items from homes and businesses whatsoever that people no longer have any use for commonly called trash or garbage and include items such as food waste, paper, plastics, textiles, rags, Leather, wood, green garbage such as grass and leafs etc, glass, metals, sanitary waste in septic tanks, and other waste such as demolition and construction debris.
- (e) "Primary Municipal Solid Waste Collection" consists of the door to door collection of waste from the point where it is placed by the person or organization that has produced it and/or wherever it is found in the Project Territory.
- (f) "Secondary Municipal Solid Waste Collection" includes picking up MSW from community bins, waste storage depots, or transfer stations and transporting it to waste processing sites or to the final disposal sites.
- (g) "The Services" means all services ancillary and related to the Services of Solid Waste Management for collection of Primary & Secondary Waste Collection, Sweeping & Washing of Manual and Mechanical and clearance of De-siting/cleaning of Nallas and Small Open Drains, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, maintenance & repair and other such obligations of the Service Provider covered under the Contract.



- (h) "Specifications" mean the document as listed in the Contract Data, including Client's requirements in respect of design to be carried out by the Contractor (if any), and any Variation in such documents.
- (i) "Plan and Map" means the Contractors plans and maps of the Services as listed in the Contract Data and any Variation to such plans and maps.
- (j) "Contract Period" means the time period for the Services (or as extended under Sub-Clause 8.2 calculated from the Commencement Date.
- (k) "GCC" means the General Conditions of Contract contained in this section.
- (l) "SCC" means the Special Conditions of Contract.
- (m) "The Procuring Agency" means the organization procuring the Services, as named in SCC.
- (n) "The Procuring Agency's country" is the country named in SCC.
- (o) "The Service Provider" means the Bidder / Contractor or firm / bidder / contractor supplying/ Joint Ventures/Consortium / rendering the Services under this Contract.
- (p) "The Project Site," where applicable, means the place or places named in SCC.
- (q) "Day" means calendar day.
- (r) Other Definitions;**
 - i) "Contractor's Equipment" means all machinery, vehicles, equipment, apparatus and plants and other things required for the execution of the Contract Services.
 - ii) "Country" means the Islamic Republic of Pakistan.
 - iii) "Client Risk" means those matters listed in Sub-Clause 8.5.1.
 - iv) "Force Majeure" means an event or circumstance which makes performance of a Party's obligations impracticable and which is beyond that Party's reasonable control, and as explained in clause 15.2.
 - v) "Materials" mean things of all kinds to be supplied, machinery, equipment and incorporated in the Services by the Contractor.



- vi) "Machinery" means the machinery, vehicles and apparatus intended to form or forming part of the Services.
 - vii) "Site" means the places provided by the Client where the Services are to be executed, and any other places specified in the Contract as forming part of the Site.
 - viii) "Variation" means a change which is instructed by the Client under Clause 14 of GCC.
 - ix) "Service" means any or all the Services whether solid waste collection (Primary & Secondary), De-silting / Cleaning of Nallas and Small Open Drains, transportation, mechanical, sweeping, manual sweeping, mechanical washing and establishment & maintenance of Transfer Stations and controlled dump sites and any variation thereof.
- (s) "Interpretation" Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.
- (t) "Law" The Contract Act 1872 which is relevant Law of the Islamic Republic of Pakistan.
- (u) "Statutory Obligations" The Contract shall comply with the Laws of Islamic Republic of Pakistan and shall give notices and pay all fees and other charges in respect of the Services due from time to time.

2. Application

2.1. These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract

3. Country of Origin

3.1. All Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further elaborated in the SCC

3.2. The origin of Services is distinct from the nationality of the Service Provider. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.

4. Standards

4.1. The services supplied under this Contract shall conform to the standards mentioned in the Technical Specifications / Scope of Services / Work Plan / Deputation Plan.

5. Use of Contract Documents and Information; Inspection and Audit by the procuring agency.

5.1. The Service Provider shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Service Provider in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.



5.2. The Service Provider shall not, without the Procuring Agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of executing the Contract.

5.3. Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Service Provider's performance under the Contract if so required by the Procuring Agency.

5.4. The Service Provider shall permit the Procuring Agency to inspect the Service Provider's accounts and records relating to the performance of the Service Provider and to have them audited by auditors appointed by the procuring agency, if so required by the procuring agency.

6. Performance Guarantee

6.1. Within Fifteen (15) days of receipt of the Notification of Contract Award, the successful Bidder shall furnish to the Procuring Agency the Performance Guarantee in the amount specified in SCC / Bid Data Sheet & clause 2.6.2 of ITB.

6.2. The proceeds of the Performance Guarantee shall be payable to the Procuring Agency as compensation for any loss resulting from the Service Provider's failure to complete its obligations under the Contract.

6.3. As per Rule-56 of PPR-14, the performance guarantee shall be denominated in the currency of the country acceptable to the Procuring Agency and shall be in one of the following forms:

- (a) A bank guarantee issued by a scheduled bank located in the Procuring Agency's country, in the form provided in the Bidding Document.

6.4. The performance guarantee shall be released by the Procuring Agency / Client and returned to the Service Provider / Contractor not later than thirty (30) days following the date of completion of the Service Provider's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

7. Incidental material

7.1. The Service Provider may be required to provide any of the incidental material if any, specified in SCC:

**8. Commencement of Services
Starting Date /
Effective Date of
Commencement**

The Service Provider shall commence services within the period specified in SCC after the date the Contract becomes effective, but in no case it shall be without the receipt of performance guarantee.

467



- 9. Time Schedule of Services** The time schedule of Services is specified in the SCC.
- 10. Payment**
- 10.1 The method and conditions of payment to be made to the Service Provider under this Contract shall be as specified in SCC.
- 10.2 The Service Provider's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, Services performed, and by documents submitted and upon fulfillment of other obligations stipulated in the Contract
- 10.3 As per rule-62 of PPR-14, payments shall be made promptly by the Procuring Agency, but in no case later than thirty (30) days after submission of an invoice or claim by the Service Provider, provided the work is satisfactory and duly verified by the representative(s) of Procuring Agency : Client deputed and authorized in this regard.
- 10.4. The currency of payment would be PKR.
- 11. Prices**
- 11.1. Prices charged by the Service Provider and Services performed under the Contract shall not vary from the prices quoted by the Service Provider in its Bid, with the exception of any price adjustments authorized in SCC.
- 12. Contract Price**
- 12.1. The price payable in Pak Rupees (PKR) is set forth in SCC
- 13. Price Escalation / De-Escalation and Change in the Applicable Law**
- 13.1. Price adjustment will be allowed in this contract as explained in Special Conditions of the Contract (SCC).
- 14. Change Orders**
- 14.1. The Procuring Agency may at any time pursuant to GCC Clause 15, by a written order given to the Service Provider / Contractor, make changes within the scope of the Contract or any additional scope of work, only if it is established and admitted as inevitable for the successful completion of the services with prior approval of Board of Directors, MWMC.
- 14.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Service Provider's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price, or both, and the Contract shall accordingly be amended. Any claims by the Service Provider for adjustment under this clause must be asserted within thirty (30) days from the date of the Service Provider's receipt of the Procuring Agency's change order.



- 15. Contract Amendments** 15.1. Subject to GCC Clause 14, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
- 16. Assignment** 16.1. The Service Provider / Contractor may execute subcontracting in a year for services with prior written approval of the Procuring Agency / Client.
- 17. Sub-Contracts** 17.1. The Service Provider shall notify the Procuring Agency in the Bid of all subcontracts to be assigned under this Contract. Such notification, in the original Bid or later, shall not relieve the Service Provider from any liability or obligation under the Contract.
- 17.2. Subcontracts must comply with the provisions of GCC Clause 16.
- 18. Delays in the Service Provider's Performance** 18.1. Performance of Services shall be made by the Service Provider in accordance with the Schedule of Requirements, Work Plan/ Deputation Plan as prescribed by the Procuring Agency in Section VII.
- 18.2. If at any time during performance of the Contract, the Service Provider or its subcontractor(s) should encounter conditions impeding timely performance of Services, the Service Provider shall promptly notify the Procuring Agency in writing of the fact of the delay, its likely duration and its cause(s). The Procuring Agency after receipt of the service provider's such notice shall evaluate the situation and if deemed appropriate and rationale, the Procuring Agency may extend the Service Provider's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.
- 18.3. Except as provided under GCC Clause 21, a delay by the Service Provider in the performance of its delivery obligations shall render the Service Provider liable to the imposition of liquidated damages.
- 19. Liquidated Damages** 19.1. Notwithstanding to GCC Clause 21, if the Service Provider fails to provide the Services as per requirement/ within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each day or part thereof until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum deduction is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 20 along with other remedies available under PPR-14.



20. Termination for Default

20.1. The Procuring Agency, without prejudice to any other remedy for breach of the Contract, by written notice of default sent to the Service Provider may terminate this Contract in whole or in part:

- (a) If the Service Provider fails to deliver any or all of the service within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to GCC Clause 18;
- (b) If the Service Provider fails to perform any other obligation(s) under the Contract, or
- (c) If the Service Provider, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract. For the purpose of this clause, corrupt practices mean the practice defined as per Section 2(c) of the PPRA Act, 2009 read with Rule 21(d) of PPRA Rules 2014.

20.2. In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 20.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Services similar to those undelivered, and the Service Provider shall be liable to the Procuring Agency for any excess costs for such similar Services. However, the Service Provider shall continue performance of the Contract to the extent not terminated.

21. Force Majeure

21.1. Notwithstanding the provisions of GCC Clauses 18, 19, and 20, the Service Provider shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that it delays in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

21.2. For purposes of this clause, "Force Majeure" means an event beyond the control of the Service Provider and not involving the Service Provider's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both the Procuring Agency and the Service Provider, may agree to exclude certain widespread conditions e.g.: epidemics, pandemics, quarantine restrictions etc. from the purview of "Force Majeure".

21.3. If a Force Majeure situation arises, the Service Provider shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the Service Provider shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all



reasonable alternative means for performance not prevented by the Force Majeure event.

- 22. Termination for Insolvency** 22.1. The Procuring Agency may at any time terminate the Contract by giving written notice to the Service Provider if the Service Provider becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Service Provider, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.
- 23. Termination for Convenience** 23.1. The Procuring Agency, by written notice sent to the Service Provider, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency's convenience, the extent to which performance of the Service Provider under the Contract is terminated, and the date upon which such termination becomes effective.
- 23.2. The Services that are complete within thirty (30) days after the Service Provider's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Services, the Procuring Agency may choose:
- (a) To have any portion completed and delivered at the Contract terms and prices, and/or
 - (b) To cancel the remainder and pay to the Service Provider an agreed amount for partially completed Services and parts previously completed by the Service Provider.
- 24. Resolution of Disputes** 24.1. After signing the contract or issuance of Letter of Acceptance of bid, The Procuring Agency and the Service Provider shall make every effort to resolve amicably by direct informal negotiation any dispute arising between them under or in connection with the Contract.
- 24.2. If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Service Provider have been unable to resolve Contract dispute amicably, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed and/or arbitration as per Rule 68 of PPR-14 and in accordance with Arbitration Act-1940.
- 25. Operative Language** 25.1. The Contract shall be written in the language specified in SCC. The version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL



26. **Applicable Law** 26.1. The Contract shall be interpreted in accordance with the laws of Punjab (Pakistan) unless otherwise specified in SCC.
27. **Notices** 27.1. Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by any electronic means for the time being in use and acceptable in ordinary course of business to the other party's address specified in SCC.
- 27.2. A notice shall be effective when delivered or on the effective date of notice, whichever is later.
28. **Taxes and Duties** 28.1. Service Provider / Contractor shall be entirely responsible for all taxes, duties, license fees, etc., for the time being in force, incurred until delivery of the contracted Services to the Procuring Agency including but not limited to Income Tax, General Sales Tax, Sales Tax on Services, Professional Tax, Property Tax and Motor Vehicle Taxes.
29. **Extension in Contract period (where applicable and if the procuring agency opts to include this condition, this should be included in original advertisement as well)** 29.1 Initially the contract shall be for Three (3) years. However, the same would be extendable by the competent authority, on the satisfactory performance by the contractor for a period of further three (03) years on annual basis on the same terms & conditions under the contract. Extension in the contract agreement shall be the discretion of the procuring agency and the contractor has no right to claim further extension as a matter of right in the contract.
30. **Indemnity** 30.1 Service Provider agrees to hold harmless and indemnify Procuring Agency from any and all liability, arising out of Service Provider's negligence, whether it be sole or in concert with others, in connection with performance of the services described herein, caused by Service Provider's negligent performance of services."
- 30.2 Service Provider shall defend, indemnify, and hold harmless the Public, Municipality, Procuring Agency, its officers, officials, employees and volunteers from and against any and all claims, suits, actions, or liabilities for injury or death of any person, or for loss or damage to property, which arises out of Service Provider's use of Premises, or from the conduct of Service Provider's business, or from any activity, work or thing done, permitted, or suffered by Service Provider in or about the Premises, except only such injury or damage as shall have been occasioned by the sole negligence of the Service Provider.
- 30.3. Service Provider agrees to protect, defend, and indemnify the Procuring Agency, its subsidiaries, and its and their respective successors, assigns, directors, officers, employees, agents, and affiliates.



from and against all claims, demands, actions, suits, damages, liabilities, losses, settlements, judgments, costs, and expenses of or by a third party OR whether or not involving a claim by a third party, including but not limited to reasonable attorneys' fees and costs (collectively, "Claims"), actually or allegedly, directly or indirectly, arising out of or related to (1) any breach of any representation or clause of Contract contained in this Agreement; (2) any breach or violation of any covenant or other obligation or duty of Service Provider under this Agreement or under applicable law; (3) any third party Claims which arise out of, relate to or result from any act or omission by Service Provider; and (4) other enumerated categories of claims and losses, in each case whether or not caused in whole or in part by the negligence of , or any other Indemnified Party, and whether or not the relevant Claim has merit.

31. Joint & Severe Liability

31.1 The liabilities including but not limited to liquidation damages (Clause 19) indemnification of claim (clause 30), any recovery of any other loss(es) or damage(s) arising out of nonperformance of services or negligence of the Service Provider under this Agreement shall be the joint and several for all affiliates and associates of Service Provider.

31.2 In case of Sole Proprietorship, the sole proprietor and all his/her successors in interest, legal heirs, legal representatives, executors and permitted assigns shall be jointly and severally liable for the purposes of recovery of amounts as laid out in clause 31.1.

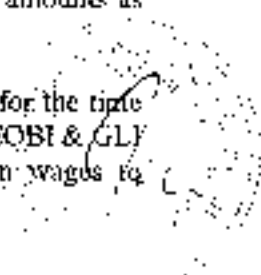
31.3 In case of Partnership Firm, all the partners and their successors in interest, legal heirs, legal representatives, executors and permitted assigns shall be jointly and severally liable for the purposes of recovery of amounts as laid out in clause 31.1.

31.4 In case of a limited liability company, The Chief Executive, all the executive and non-executive directors, all shareholders and their successors in interest, legal heirs, legal representatives, executors and permitted assigns shall be jointly and severally liable for the purposes of recovery of amounts as laid out in clause 31.1.

31.5. In case of Joint Venture, all persons in case of sole proprietor, all partners in case of Partnership Fir and The Chief Executive, all the executive and non-executive directors, all shareholders in case of a limited liability company forming Joint Venture in any combination thereof and his/her/their successors in interest, legal heirs, legal representatives, executors and permitted assigns shall be jointly and severally liable including for the purposes of recovery of amounts as laid out in clause 31.1.

32. Labor Laws

32.1. Service Provider shall comply with all Labour laws for the time being in force including but not limited to Social Security, EOBI & GLY etc. Service Provider shall also strictly ensure minimum wages for



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE
RESOURCES) FOR DISTRICT KHANNAWAL.



unskilled Labour as fixed by the Government from time to time. There shall be zero tolerance as regards the rights of Labour.



Section-VI. Special Conditions of Contract





The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. Definitions (GCC Clause 1)

GCC 1.1 (g) - The Procuring Agency is: Multan Waste Management Company (MWMC)

GCC 1.1 (h) - The Procuring Agency's country is: Pakistan

GCC 1.1 (i) - The Service Provider is: M/s-----

GCC 1.1 (j) - The Project Site is: Tehsil X (Urban and Rural AREAS)

2. Performance Guarantee (GCC Clause 6)

GCC 6.1 - **Performance Guarantee:** As per rule 56 of PPR-14, a performance guarantee at the rate of 05% of the Contract Price for Three Years shall be provided by the successful bidder who is awarded the contract. The Contractor shall provide Performance Guarantee for the three months beyond the project duration to the Client. The said guarantee shall be furnished or caused to be furnished by the Contractor within Fifteen (15) days after the receipt of the Notification of Award / Letter of Acceptance.

GCC 6.3 - **Form of Performance Guarantee:** An unconditional bank guarantee should be issued by a scheduled bank located in the Procuring Agency's country, in the form provided in the Bidding document or another form acceptable to the Procuring Agency or issued by a foreign bank through a correspondent bank acceptable to the Procuring Agency located in Pakistan, and in the form provided in the bidding document or another form acceptable to the Procuring Agency. No other mode of performance guarantee will be accepted other than bank guarantee.

GCC 6.4 - **Releasing the Performance Guarantee:** The performance guarantee shall be released by the Procuring Agency and returned to the Service Provider on a satisfactory performance certificate 30 days after the expiration / completion of project.

3. Commencement of Services (GCC Clause 8)

GCC 8.1 (a) - The effective date for commencement of Services is within thirty (30) days after signing of contract. The machinery will be mobilized within these 30 days mentioned above.

GCC 8.1 (b) - The infrastructure development for TCCPs & waste enclosures will be carried out within thirty (30) days from the signing of the contract without imposing any penalty. Similarly, the contractor will develop the controlled dumpsite within three (03)



months from the date of signing of contract without imposing any penalty related to dump site. However, shift arrangements will be the responsibility of the contractor during this tenure of waste disposal. In case of non-availability of government land for establishment of controlled dumpsite, rent of land will be paid to the contractor with prior approval of the Client.

The Parties agree that the Time is of the essence in this Contract and, whenever a date or time is set forth in this Contract, the same has been entered into and formed a part of the consideration of this Contract subject to clause 5 of SCC.

4. Time Schedule of Services (GCC Clause 9)

GCC 9.1 (a)— Contract Period: The term of the contract shall be for the period of 03 Years from the Commencement of Services. Contract is extendable at the same terms and conditions on annual basis, subject to the satisfactory performance of the bidder and with the mutual consent of the parties for another three years.

GCC 9.1 (b)— Extension of Contract Period: Contract is extendable for another three years on annual basis at the same terms and conditions, subject to the satisfactory performance of the bidder and with the mutual consent of the parties.

GCC 9.1 (c)— The Client;

(i) Provision of Site;

The Client shall provide the Site and right of access thereto on the Commencement Date.

(ii) Permits etc.

The Client shall, if requested by the Contractor, assist the Contractor in applying for permits, licenses or approvals which are required for the Services.

(iii) Resources.

The Client shall, handover the available resources (provided by the client) including Human Resources, Machinery, vehicles whichever is available to the successful service provider as per TORs and approved plan at the discretion of client. Resources (Vehicle / Machinery) which will be handed over to the contractor will be returned back in acceptable working condition as compared to the conditions at the time of handing over of those resources to the Client at the end of the Contract and / or termination what so ever.

(iv) Clients Instructions;

The Contractor shall comply with all instructions given, in accordance with the Contract, by the Client.

(v) Approvals;



No approval or consent or absence of comment by the Client shall affect the Contractor's obligations.

GCC 9.1 (b)— Client's Representatives;

(i) Authorized Person;

The Client may appoint a duly authorized person to act for it and on its behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case, the Client may notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

(ii) Client's Representative;

The name and address of Client's Representative is given in the Contract Data. However, the Contractor shall be notified by the Client, the change of representative and the delegated duties and authority before the Commencement of Services.

GCC 9.1 (c)— The Contractor;

5. Obligations of Contractor

(i) The Contractor shall carry out the Services properly and in accordance with the Contract. The Contractor shall provide all supervision, labor, Materials, Plant and equipment which may be required under the Contract however waste collected will remain the property of the client.

(ii) The Contractor shall procure / purchase its own machinery at least 30% of total machinery as specified in Section-III during First year of the contract;

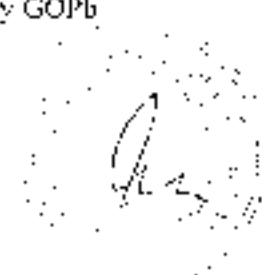
(iii) The movable & immovable assets / properties / machinery / vehicles etc. which will be acquired by the contractor from the Procuring Agency during this contract shall remain under the ownership of Procuring Agency and Contractor shall be bound to return back the same to the Procuring Agency in acceptable condition after the completion of contract and / or termination of contract what so ever.

(iv) Contractor's Obligations for Fee Collection Services

I. Fee Collection Responsibilities;

The contractor providing sanitation services in the Tehsil shall also be responsible for fee collection from the households and commercial entities etc. on the prescribed rates by GOPs and based on the customer database to be provided by the client.

II. Administrative / Collection Charges;





The contractor will be entitled to administrative / collection charges at the incremental / slab based ratios prescribed below in Table II.1 for the amount of fee collected. However if the contractor fails to collect the desired target (25%, 40%, 60% for year 1, 2, 3 respectively), the contractor shall be penalized at the incremental / slab based ratios prescribed below in Table II.2.

III. Fee Deposit and Payment Process:

- The Contractor shall deposit full amount (100%) of fee collected into the bank account provided by MWMC.
- The contractor will submit separate invoice for administration charges on the fee collected on monthly basis.

IV. Commencement of Fee Collection:

Fee collection from households and commercial entities etc shall commence on a date specified by the client but not later than four months after the execution of the contract. However contractor will ensure zero billing to consumers in that period.

V. Digital Billing System:

MWMC will establish a digital billing system to facilitate the contractor in fee collection.

VI. Enforcement of Bill Recovery:

MWMC, local governments and the District Administration will enforce and facilitate the bill recovery mechanism under the powers granted to them by the Local Government Act and applicable rules.

VII. Fee Charges Compliance:

The contractor is obligated to collect and submit fee charges according to the rates notified by the Government of Punjab (GOPb).

Table-II.1: Admin. / Collection Charges Mechanism for Fee Collection

Fee Collection Target (of assessed value)	Fee Collected	Contractor Share / Admin. Charges
25% (1 st Year)	25%	10% of the Fee Collected
	25% to 50%	10% + 15% of the additional collection
	50% to 80%	10% + 15% of the additional 25% + 20% of the remaining
	80% to 100%	10% + 15% of the additional 25% + 20% of the additional 30% collection + 25% of the remaining



40% (2 nd Year)	40%	10% of the Fee Collected
	40% to 60%	10% - 15% of the additional collection
	60% to 80%	10% - 15% of the additional 20% + 20% of the remaining
	80% to 100%	10% - 15% of the additional 20% + 20% of the additional 20% + 25% of the remaining
60% (3 rd Year)	60%	10% of the Fee Collected
	60% to 80%	10% - 15% of the additional collection
	80% to 100%	10% - 15% of the additional 20% + 20% of the remaining

Table-11.2: Penalty Mechanism for Below Fee Collection Target

Fee Collection Target (of assessed value)	Fee Collected	Contractor Penalty
25% (1 st Year)	>20% to ≤25%	No Administrative / Collection Charges to the Contractor, No penalty
	>15% to ≤20%	No Administrative / Collection Charges & 1% deduction from the monthly Invoice of the Contractor against SWM Services
	>10% to ≤15%	No Administrative / Collection Charges 2% deduction from the monthly Invoice of the Contractor against SWM Services
	>5% to ≤10%	No Administrative / Collection Charges 5% deduction from the monthly Invoice of the Contractor against SWM Services
	Less than 5%	Termination proceedings under the contract
40% (2 nd Year)	>25% to ≤40%	No Administrative / Collection Charges to the Contractor, No penalty
	>15% to ≤25%	No Administrative / Collection Charges 1% deduction from the monthly Invoice of the Contractor against SWM Services
	>10% to ≤15%	No Administrative / Collection Charges 2% deduction from the monthly Invoice of the Contractor against SWM Services
	>5% to ≤10%	No Administrative Charges 5% deduction from the monthly Invoice of the Contractor against SWM Services
	Less than 5%	Termination proceedings under the contract
60% (3 rd Year)	>30% to ≤60%	No Administrative Charges to the Contractor, No penalty
	>20% to ≤30%	No Administrative Charges

[Handwritten signature]



		1% deduction from the monthly Invoice of the Contractor against SWM Services No Administrative Charges
	>15% to <20%	2% deduction from the monthly Invoice of the Contractor against SWM Services No Administrative Charges
	>5% to <10%	5% deduction from the monthly Invoice of the Contractor against SWM Services
	Less than 5%	Termination proceedings under the contract

(i) **Contractor's Representative**

The Contractor shall appoint a representative at site on full time basis to supervise the execution of service and to receive instructions on behalf of the Contractor. The Contractor shall inform the Client in writing regarding the appointment of such representative. Such authorized representative may be substituted / replaced by the Contractor at any time during the Contract Period but only after informing the Client as aforesaid.

GCC 9.1 (f) Contractor's Plans and Schedules

The Contractor shall carry out plans and schedules to the extent specified in the Technical Specifications / TORs. The Contractor shall promptly submit to the Client all plans and schedules prepared by him. Within Seven (07) days of receipt, the Client shall notify any comments or, if the plans and schedules submitted are not in accordance with the Contract, shall reject it stating the reasons.

The Contractor shall carry out all elements of the Services planned and schedules submitted/ approved by client within Seven (07) days after the plan and schedules have been submitted/ approved by the Client. Plans and schedules that have rejected shall be promptly amended and resubmitted for approval of client. The Contractor shall resubmit all plans and schedules commented on taking these comments into account as per the Contract.

6. Payment (GCC Clause 10)

GCC 10.1 (A) Terms of Payment: The contract price including the increases / decreases that may occur due to the additional work or price escalation / de-escalation shall be paid by the Client under the following terms and conditions:

- (i) All payments, under this contract shall be made from the bank account of the Client to the Contractor account only. The contractor shall submit the details of bank account in the legal name of the Contractor to the Client for payment.
- (ii) In case of Joint Venture / Consortium payment shall be made to the Joint Venture Account.
- (iii) Payments other than the contractor shall not be allowed.



- a) **Quantities:** The services set out in the TORs are the estimated quantities for the services and they are not to be taken as the actual quantities of the Services to be executed by the Contractor in fulfillment of his obligations under the Contract
- b) **Services to be measured & method:** The Client shall measure the services based on digital monitoring system / KPIs and Village / Ward Committees or any method defined by the Client. Till the time digital monitoring system is not deployed, services will be measured as per KPIs manually through hierarchy defined by the Client

c) Monthly Invoice;

The Contractor shall be (is) entitled to be paid the value of the Services executed at monthly intervals, The Contractor shall submit, each month to the Client, an invoice showing the amounts to which he considers himself entitled for payment.

(iv)-a Payment Mechanism of Operational Cost:

- i) The net payment based on performance evaluation of doorstep collection, transportation of residential, commercial and bulk waste, Processing and dumpsite etc. will be worked out as per payment mechanism defined in TORs/Scope of Work (KPIs based payment)
- ii) Payments would be made in PKR and shall be released based on performance / KPIs as per TORs and approved work plan subject to any escalation / de-escalation as per GCC 13.
- iii) Daily Work Performance Evaluation will be based on digital performance evaluation dashboard (till incorporation of the digital performance evaluation dashboard, manual verification of the work will be performed by the designated officers of client). The performance evaluation dashboard will be based on payment mechanism defined in TORs/Scope of Work (KPIs based payment).

(iv)-b Payment Mechanism of Fee Collection:

- The full amount of the collected fee (100%) must be deposited into the bank account provided by LWMC.
- Payments to the contractor will be made based on the monthly invoices submitted by the contractor separately.
- The contractor will submit separate invoices for operational cost and administration charges on monthly basis.

GCC 10.1 (B) Mobilization Advance: Not Applicable.

GCC 10.1 (C) Payment upon Termination:

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Services executed and of the Materials and Plant reasonably delivered to the Site, adjusted with approval of Client:

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL.



Any sums to which the Contractor is entitled under the contract.

Any sums to which the Client is entitled.

Note: In case of Joint Venture, payment will be made on the name of the Joint Venture Bank Account.

7. Prices (GCC Clause 11)

GCC 11.1 - Prices shall be fixed for contract period inclusive of all Applicable Taxes. However, price adjustment will be made at the time of invoice processing as specified in clause 6 of SCC.

8. Contract Prices (GCC Clause 12)

GCC 12.1 (a) - This Agreement is a lump sum price contract and made for the price (in figures) (in words)

Name of Tehsil	Total Bid Price for Three Years (PKR)
Cost of Services for Tehsil X	
Total Bid Price for Three Years (In Words):	

GCC 12.1 (b) Regarding the performance of the work subject to the tender, any and all expenses related with fuel, insurance, managerial staff, spare parts, maintenance, repair, depreciation, transportation, vehicles, containers and equipment as well as costs of transportation, cleaning supplies in connection with the performance of work under the tender, are included in the bid price. The management cost of the employees to be employed under this contract/in work of tender and employees provided by the Client are included in the bid price.

GCC 12.1 (c) - Pursuant to the laws of Pakistan, all payable taxes and duties required to be paid by the Contractor are included in the bid price including withholding income tax, sales tax and custom duties etc. Any change in amount of taxes by the government shall be adjustable accordingly.

9. Price Variation (Increase or Decrease) / (Escalation / De-Escalation) (GCC Clause 13)

GCC-13.1 (a): Increase and Decrease of Cost

(TEHSIL KHANEWAL LOT # 1)

Escalation Factor Working		Adjustment Factors
Particulars	%age	

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANUWAL.



Fuel Cost	21.93%	C	Fuel Rate as on July 04, 2024 as per PSC (High Speed Diesel @277.45/litre Minimum Wage of PKR 37,000/month as on July 04, 2024
HR Cost	50.14%	B	
Other Operational Cost	27.85%	A	
Total Net Operational Cost	100.00%		

$P_n = P$ Price Adjustment Factor

- A 27.88 Constant
- B 50.14 Labor %age in total Operational Cost
- L_n 37,000 Current Labor Rate
- L_o 37,000 Contract Labor Rate
- C 21.98 Fuel %age in total Operational Cost
- F_n 277.45 Current Fuel Rate
- F_o 277.45 Contract Date Fuel Rate

Escalation Factor for the month

The amount payable to the Contractor, shall be adjusted in respect of the rise and fall in the cost of labor and fuel by applying to such amount the formula prescribed below,

$$P_n = A + b(L_n/L_o) + c(F_n/F_o)$$

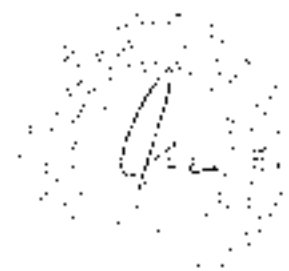
Where,

- " P_n " is the Price Adjustment factor for the work carried out in the period "n".
- "A" is the constant or the Non-Adjustable Portion of the Price Adjustment Factor.
- "b", "c" are coefficients or weightages of the order of 0.xx (i.e., fractions have two significant digits) for each specified element of adjustment in the Contract. The sum of A, b, c, etc., shall be one.

" L_o ", " F_o " are the Base Date Indices for the Labor and Fuel which are adjustable elements.
" L_n ", " F_n " are the Current Date Indices of the Labor and Fuel which are also adjustable elements for the period "n" i.e. Invoice Period. If "P" is the amount payable (prior to adjustment) at the rates entered in the Price Schedule of the work carried out in period "n" then, Adjusted amount payable to the Contractor for the work carried out in the period "n" shall be equal to $P_n * P$.

Coefficients

- A - 0.2788
- b 0.5014 Labor
- c 0.2198 Fuel



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANUWAL



(TEHSIL KABIRWALA LOT # 2)

Escalation Factor Working		
Particulars	%age	Adjustment Factors
Fuel Cost	20.45%	C
HR Cost	52.69%	B
Other Operational Cost	26.86%	A
Total Net Operational Cost	100.00%	

Fuel Rate as on July 04, 2024 as per PSO (High Speed Diesel) @277.45/litre
Minimum Wage of PKR 37,000/month as on July 04, 2024

$P_n = P$ Price Adjustment Factor

- A 26.86 Constant
 B 52.69 Labor %age in total Operational Cost
 L_n 37,000 Current Labor Rate
 L_o 37,000 Contract Labor Rate
 C 20.45 Fuel %age in total Operational Cost
 F_n 277.45 Current Fuel Rate
 F_o 277.45 Contract Date Fuel Rate

Escalation Factor for the month

The amount payable to the Contractor, shall be adjusted in respect of the rise and fall in the cost of labor and fuel by applying to such amount the formula prescribed below:

$$P_n = A + b \cdot (L_n / L_o) + c \cdot (F_n / F_o)$$

Where,

" P_n " is the Price Adjustment factor for the work carried out in the period "n",
 "A" is the constant or the Non-Adjustable Portion of the Price Adjustment Factor,
 "b", "c" are coefficients or weightage s of the order of 0.25 (i.e., fractions have two significant digits) for each specified element of adjustment in the Contract. The sum of A, b, c, etc., shall be one.

" L_o ", " F_o " are the Base Date Indices for the Labor and Fuel which are adjustable elements.
 " L_n ", " F_n " are the Current Date Indices of the Labor and Fuel which are also adjustable elements for the period "n" i.e. Invoice Period. If "P" is the amount payable (prior to adjustment) at the rates entered in the Price Schedule of the work carried out in period "n" then, Adjusted amount payable to the Contractor for the work carried out in the period "n" shall be equal to $P_n \cdot P$.

Coefficients

A = 0.2686



- b = 0.5269 Labor
- c = 0.2045 Fuel

(TEHSIL JAHANIAN LOT # 3)

Escalation Factor Working		
Particulars	%age	Adjustment Factors
Fuel Cost	23.62%	C
HR Cost	46.30%	B
Other Operational Cost	30.08%	A
Total Net Operational Cost	100.00%	

Fuel Rate as on July 04, 2024 as per PSO (High Speed Diesel @277.45/litre
Minimum Wage of PKR 37,000/month as on July 04, 2024

P_n = P Price Adjustment Factor

- A 30.08 Constant
- B 46.30 Labor %age in total Operational Cost
- L_n 37,000 Current Labor Rate
- L₀ 37,000 Contract Labor Rate
- C 23.62 Fuel %age in total Operational Cost
- F_n 277.45 Current Fuel Rate
- F₀ 277.45 Contract Date Fuel Rate

Escalation Factor for the month

The amount payable to the Contractor, shall be adjusted in respect of the rise and fall in the cost of labor and fuel by applying to such amount the formula prescribed below;

$$P_n = A + b (L_n/L_0) + c (F_n/F_0)$$

Where,

"P_n" is the Price Adjustment factor for the work carried out in the period "n".
 "A" is the constant or the Non-Adjustable Portion of the Price Adjustment Factor.
 "b", "c" are coefficients or weightages of the order of 0.xx (i.e., fractions have two significant digits) for each specified element of adjustment in the Contract. The sum of A, b, c, etc., shall be one.

"L₀", "F₀" are the Base Date Indices for the Labor and Fuel which are adjustable elements.
 "L_n", "F_n" are the Current Date Indices of the Labor and Fuel which are also adjustable elements for the period "n" i.e. Invoice Period. If "P" is the amount payable (prior to adjustment) at the rates entered in the Price Schedule of the work carried out in period "n" then Adjusted amount payable to the Contractor for the work carried out in the period "n" shall be

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANNAI.



equal to $P_n \times P$.
Coefficients

A = 0.3008
b = 0.4636 Labor
c = 0.2362 Fuel

(TEHSIL MIAN CHANNU LOT # 4)

Escalation Factor Working		
Particulars	%age	Adjustment Factors
Fuel Cost	30.10%	C
HR Cost	34.27%	B
Other Operational Cost	35.63%	A
Total Net Operational Cost	100.00%	

Fuel Rate as on July 04, 2024 as per PSO (High Speed Diesel @277.45/litre
Minimum Wage of P&R 37,000/month as on July 04, 2024

$P_n = P$ Price Adjustment Factor

- A 35.63 Constant
- B 34.27 Labor %age in total Operational Cost
- L_n 37,000 Current Labor Rate
- L_o 37,000 Contract Labor Rate
- C 30.10 Fuel %age in total Operational Cost
- F_n 277.45 Current Fuel Rate
- F_o 277.45 Contract Date Fuel Rate

Escalation Factor for the month

The amount payable to the Contractor, shall be adjusted in respect of the rise and fall in the cost of labor and fuel by applying to such amount the formula prescribed below:

$$P_n = A + b(L_n/L_o) + c(F_n/F_o)$$

Where,

" P_n " is the Price Adjustment factor for the work carried out in the period "n".
 "A" is the constant or the Non-Adjustable Portion of the Price Adjustment Factor,
 "b", "c" are coefficients or weightage s of the order of 0.xx (i.e., fractions have two significant digits) for each specified element of adjustment in the Contract. The sum of A, b, c, etc., shall be one.

" L_o ", " F_o " are the Base Date Indices for the Labor and fuel which are adjustable elements.
 " L_n ", " F_n " are the Current Date Indices of the Labor and Fuel which are also adjustable



elements for the period "n" i.e. Invoice Period. If "P" is the amount payable (prior to adjustment) at the rates entered in the Price Schedule of the work carried out in period "n" then Adjusted amount payable to the Contractor for the work carried out in the period "n" shall be equal to $P_n * P$.

Coefficients

A = 0.3563
b = 0.3427 Labor
c = 0.3010 Fuel

10. Change Orders & Variations (GCC Clause 14)

GCC-14.1 (a) ADDITIONAL WORK THROUGH CHANGE ORDER: The Client may ask the Contractor to execute the Services that are not included in the scope of the Contract as per its need. In such a case the values of the Services to be executed shall be offered to the Client by the Contractor. In case the offered values are accepted to the Client, the additional Services shall be executed by the Contractor. In case of otherwise, the Client may assign the task to any other contractor. Approval of any additional work will be sought from the Board of Directors-MWMC

GCC-14.2: Equitable adjustment means proportionate change against all the input values based for cost estimation.

GCC-14.3 (a): Right to vary the Scope of Services reference to GCC-14.1 (a):

The Client may issue mutually agreed Variation Order(s) in writing, where for any reason it has not been possible for the Client to issue such Variation Order(s), the Contractor may confirm any orders given by the Client in writing and if the same are confirmed by the Client, within seven (07) days of the receipt of such confirmation the same shall be deemed to be a mutually agreed Variation Orders for the purpose of this Contract.

GCC-14.3 (b): Valuation of Variations:

Variations shall be valued as follows:

- a) At a lump sum price agreed between the Parties, or
- b) Where appropriate, at rates in the contract, or
- c) In the absence of appropriate rates, the rates in the contract shall be used as the basis for valuation, or failing which
- d) At appropriate new rates, as may be agreed

GCC-14.3 (c): Early Warnings:

The Contractor shall inform / notify the Client in writing as soon as he is aware of any circumstances which may delay, stop or disrupt the Services, or which may give rise to a claim for additional payment.



To the extent of the Contractor's failure to notify, which results to the client being unable to keep all relevant records or not taking steps to minimize any delay, stop, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Contract Period or additional payment shall be reduced/rejected.

11. Contract Amendments (GCC Clause 15)

GCC-15: No amendments or modification of this Agreement shall be valid unless evidence in writing and signed by duly authorized representative of both parties. Any amendments to this contract or supplemental Contract may be made by means of mutual understanding of both the parties.

12. Sub-Contracting (GCC Clause 17)

GCC-17.2: Subject to Clause 16 of GCC, Contractor may execute subcontracting in a year for services with prior written approval of the Procuring Agency. The Bidder will at all times and for all purposes remain liable in connection with any matter which may arise as a result of subcontracting, including resolution of any disputes; performance, quality, delivery, timeliness etc. of the sub-contracted Bidder / contractor's Obligations etc.

13. Liquidated Damages (GCC Clause 19)

GCC 19.1— If the service provider stops the work on any grounds (except force majeure) the Liquidated damages shall be applicable (g): 0.2 % of the Contract Price of the delayed services per week. But not to exceed in the aggregate ten (10%) of Contract Price stated in the Notice of Contract Award / Letter of Acceptance by the Procuring Agency.

14. Termination for Default (GCC Clause 20)

1. Default by Contractor

If the Contractor abandons to provide the Services, refuses or fails to comply with a valid instruction of the Client or fails to provide expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Client may give notice within three days referring to this Sub-Clause and stating the default.

If the Contractor has not taken due practicable steps to remedy the default within seven (07) days after the receipt of the Client's notice, the Client may by a second notice given within a further seven (07) days to terminate the Contractor. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Client instructs, in the second notice, to be used for the completion of Services at the risk & cost of the Contractor (i.e.) the alternative arrangement by the Client.

2. Default by Client

If the client fails to pay in accordance with the Contractor, or is, despite a written complaint, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default



is not remedied within fourteen (14) days after the Client's receipt of this notice, the Contractor will refer the case to the responsible senior management of the Client for finalization and then take further course of action.

If the default is not remedied within twenty eight (28) days after the Client's receipt of Contractor's notice, the Contractor may by a second notice given within a further twenty one (21) days, terminate the Contractor. The Contractor shall then demobilize from the Site.

15. Termination for Insolvency (GCC Clause 22)

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilize from the Site leaving behind, in the case of Contractor's solvency, any Contractor's Equipment which the Client instructs in the notice is to be used for the completion of Services at the risk & cost of the Contractor till the alternative arrangement by the Client.

16. Resolution of Disputes (GCC Clause 24)

GCC 24.2—the dispute resolution mechanism to be applied pursuant to GCC Clause 24.1 shall be as follows:

If any dispute or difference of any kind (a "Dispute") arises between Client and Contractor in connection with, or arising out of, this Agreement, the Client's Representative and Contractor's Representative within seven (7) days shall attempt to settle such dispute in first instance through discussion. The designated representatives of Client and Contractor shall promptly confer and exert their best efforts in a good faith to reach a reasonable and equitable resolution of such dispute.

If the representatives are unable to resolve the dispute within seven calendar days, the dispute shall refer within two calendar days of lapse of seven calendar day period to the Chief Executive officer of MWMC for resolution within Seven Calendar Day period.

If the Chief Executive officer of MWMC is unable to resolve the dispute within seven calendar days, the dispute shall refer within two calendar days of lapse of seven calendar day period to the Dispute Resolution Committee headed by Deputy Commissioner for resolution within Fifteen Calendar Day period.

If the Dispute Resolution Committee headed by Deputy Commissioner is unable to resolve the dispute within fifteen calendar days, the dispute shall refer within two calendar days of lapse of fifteen calendar day period to **Divisional Commissioner** for arbitration within thirty days in accordance with the Arbitration Act 1940. Whereas, place of arbitration will be Multan.

GCC-24.3 Arbitration

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) under the chair of **Commissioner Multan** and rules made there under and any statutory modifications thereto. Any hearing shall be held at Multan, Pakistan and in the language referred to in the Clause 3. The Decision of the **Divisional Commissioner** shall be final and binding upon Client and Contractor.



GCC-24.4 Continued Performance

During the pendency of any arbitration, Contractor and Client shall continue to perform their obligations under this agreement.

17. Operative Language (GCC Clause 25)

GCC 25.1— The operative Language shall be: English:

18. Applicable Law (GCC Clause 26)

GCC 26.1-The Contract shall be interpreted in accordance with the laws applicable in the jurisdiction of the province of Punjab (Pakistan):

19. Notices (GCC Clause 27)

GCC 27.1- Procuring Agency's address for notice purposes:

Manager (P & C)

Local Government & Community Development, Department, Government of Punjab.

Building No. 275/RB, Ward # XEX, Shamsabad Colony, Near Chungi No. 09, Multan Pakistan. Tel: (+92)061-9330175; info.procurement@mwmc.com.pk

20. – PENALTIES & TERMINATION OF THE AGREEMENT

20.1 The detailed table of Key performance Indicators and their related penalties are provided in a table given in Section III, Technical Specification.

20.2 Procedure for imposing of Penalty:

20.2.1 If the Client finds anything contrary to the description and scope of work specified in the technical document, which are liable to be penalized as per the defined mechanism in the Section-III. Technical Specifications, Scope of Services, the contractor will be conveyed through digital monitoring system or otherwise and compliance be ensured by the contractor as per plan. Non-compliance of TORs/ Scope of Work will be reflected in penalties and will also lead deduction of payments as per payment mechanism defined in TORs/Scope of work.

20.2.2 The digital system of penalties and KPIs leading to performance based evaluation dashboard will be based on digital basis through vehicle tracking system, digital attendance system, complaint redresser system, penalty management system, dump site and TCP management system etc. The systems may be changed but all the values shall be processed digitally with same availability to the contractor for measuring its own performance as well.

20.2.3 If during the term of this Agreement any governmental or regulatory authority or agency assesses any fines or penalties against Contractor or Client arising from Contractor's failure to operate and maintain the Project in accordance with applicable Laws without Clients prior written consent, such fines and penalties shall be the sole responsibility of Contractor and shall



not be deemed a Reimbursable cost.

20.2.4 KPI annexed with technical specifications shall define the service level required by the Client failing which deduction will be made by the client. The system will evaluate daily working of the contractor and will issue compliance points leading to calculate invoice amount.

20.2.5 The Client may not apply penalty to Contractor as far as possible with good intention by showing tolerance until the completion of the transition phase define in the technical specifications. However, in case any conflict arises between the parties regarding imposition of penalties as per the defined mechanism in the Section-III i.e. Technical Specifications/TORs (Scope of Services), any party can refer the matter before a local committee which will be duly notified by the Client. The local Committee shall consist of a total of three members notified by the Client, with mutual consent of the Contractor. The decision of said Committee shall be final and binding upon both the parties.

21. RISKS AND RESPONSIBILITIES

21.1 Contractor's Care of the Services

The Contractor shall take full responsibility for the care of the Services from the Commencement Date until the completion of contract. If any loss or damage happens to the Client or to any public or private party during the above period due to any act, negligence or Omission of the Contractor, the Contractor shall rectify such loss or damage.

Unless the loss or damage happens as a result of any of the Client's Risks, the Contractor shall indemnify the Client, or his agents against all claims of loss, damage and expense arising out of any act or omission of the Contractor during the Services.

21.2 Time Extension

Situation for which time extension shall be provided by the Client are as follows:

- a) In cases where the Client fails to fulfill its obligations regarding performance of the Contract and Technical specifications, due to any reason (including site delivery, approval of projects & works programs), causing delay to the work of Client whereby the responsibility does not fall on the Contractor. However, despite efforts of the Contractor, it causes delay in performing the required tasks. In such cases, time shall be extended for delay time period with respect to these reasons preventing realization and nature of the business.
- b) In case the scope of work is increased due to any additional work, time period of the business may be extended in proportion to the increased work for part or all of the business.

21.3 The Client's Risks

The Client's Risks are:

- a) War, hostilities (whether war be declared or not), invasion, act of foreign enemies,



- within the Country
- b) Rebellion, terrorism, revolution, insurrection, or civil war, within the Country;
 - c) Riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Services;
 - d) Ionizing radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/sub-Contractors may be responsible for the use of any radio-active material;
 - e) Pressure wave caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;
 - f) Use or occupation by the Client of any part of the Services, except as may be specified in the Contract;
 - g) Late handing over the sites, anomalies in maps, late delivery of maps and maps of any part of the Services by the Client's personnel or by other from whom the client is responsible;
 - h) A suspension under Sub-Clause 8.4.3 unless it is attributable to the Contractor's failure; and
 - i) Physical obstructions or physical conditions other than climatic conditions encountered on the Site during the performance of the Services for which the Contractor immediately notified the Client and accepted by the Client.

22. SAFEGUARDING AND INSURANCE OF THE WORK AND WORK PLACES

22.1 Arrangements

The Contractor shall, prior to commencing the Services, indemnify, defend and hold harmless the Client, and its respective officers, directors, employees, and representatives from and against any and all claims, caused due to any act or omission of the Contractor, (in whatever form and to the fullest extent permitted by law) except for items (a) to (e) and (i) of the Client's Risks under Sub-Clause 8.5.3. The Contractor shall provide the Client with evidence that any required policy is in force and that premiums have been paid. Any Costs or expenses incurred by Contractor pursuant to its indemnity obligations under this Clause shall be the sole responsibility of the Contractor. If the Contractor does not buy any insurance to cover the said indemnity and any such instance occurs, the contractor shall bear directly the expenses to fulfill such indemnity.

22.5 Default

If the contractor fails to effect or keep in force any of the insurance referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the Client may, Without prejudice to any other right or remedy, effect insurance for the cover relevant to such a default and pay the premiums due and cover the same plus 15% due to the Contractor.

23. PROJECT CONDITION AT END OF TERM

23.1 Completion



The Contractor shall notify the Client when he considers the Services are completed.

23.2 Site Condition at the end of Term

Upon expiration and termination of this Agreement, Contractor shall remove its personnel from the project. Contractor shall leave the project / site in a good condition except normal wear and tear and casualty. The Contractor shall be paid all unpaid Costs. The properties that belong to the Client like all workshops, transfer stations, parking areas buildings and offices, vehicles and resources handed over by Client without any cost implication.

24. CODE OF CONDUCT & RULES OF ETHICS

24.1 The contractors that attempt to get secret information, to conclude illegal agreements with the competitors or to affect the Client during the phase of tender inspection, evaluation, and comparison shall result in their candidacy or offers being cancelled and this situation shall be penalized administratively.

24.2 The Contractor shall announce that it does not get affected from any potential conflict of interests by participating in the tender and that it does not have any equivalent relationship with the other tender participants or parties participating in the project. In case such a situation evolves during the execution, the Contractor shall inform the Client immediately.

24.3 The Contractor shall always act impartially and trust worthily in accordance with the rules of business ethics. It should avoid from making public announcements regarding the projects and services without prior authorization of Client. It shall not oblige the Client without prior authorization in anyway.

24.4 The Contractor and its staff shall be respectful towards basic human rights during the Contract and shall promise not to act against political, cultural, and religious customs of the country and avoid all kinds of discrimination.

24.5 The contractor shall not accept payments other than the ones stated in the contract. The Contractor and its staff shall not act in an inconsistent way or contrary to their obligations and shall not accept any benefits against the Client. The Contractor shall not accept any types of presents, entertainment or similar direct or indirect contributions that may affect their decisions in executing the job.

24.6 The Contractor and its staff are obligated to keep the confidentiality in a professional way during the Contract period and period afterwards. All of the reports and documents prepared or received by the Contractor are confidential. Such documents and information shall never be shared with third party without permission of the Client.

24.7 Bidder / contractor assets belonging to the client within or outside the scope of work shall not be sold or be utilized by the third parties without appropriate documentation and valid permissions in accordance with Contract. Bidder / contractor assets shall not be used for personal interests or the bidder / contractor's disadvantage.

24.8 Usage of all reports and documents received and submitted by the parties to the Contract during the contract period shall be subject to an agreement.



24.9 The contractor is responsible to ensure behaviors against the public and code of conduct of workers employed by it.

24.10 Contractor shall be constructive, not destructive, with public in performance of the work of tender subject, and not cause any public complaint by endearing, not disgusting. It shall never forget that it is in service on behalf of local Client which aims at serving the public.

24.11 It is strictly forbidden for the contractor to attempt to offer, to give or to promise bribe to the Government Officers in order to execute the job.

24.12 The Contractor shall avoid any such relationship that may put it under any kind of commercial, financial or any other type of pressures that may affect its and its personnel's technical decision's and endanger its ability to decide independently. In such a situation, the Administrative warns the contractor and requires the dismissal of the relevant personnel.

24.13 In case, any type of fraud is identified at any phase of decision process, the Client reserves its rights to suspend or to cancel the tender. Bribes, presents, tips, commission offered as an incentive or reward to any person shall be considered as "fraud" under this provision.

25. LABOR & LABOR COSTS

25.1 The number of personnel required for the scope of work to be commenced within the boundaries of Tehsil is listed in table provided in the Section-III i.e. Technical Specifications / TORs. The cost of labor provided by the client shall not be included to the prices to be determined of Waste Collection, Mechanical Sweeping, Mechanical Cleaning, Mechanical Sweeping and Urban & rural areas Cleaning Services. However cost of the workers hired by the contractor is included in the contract price. Details of the HR strength is provided in the TORs / approved plan.

25.2 The Client shall handover number of existing workers as specified above. The management control of these employees shall be with Contractor. Wages and other benefits as per labor laws of these workers shall be paid by the Client.

25.3 The Contractor shall employ the additional workers as specified above other than those handed over by the Client for the work subject to the tender. the remuneration and personal rights of these employees shall be paid by the Contractor as cost of these workers is included in estimates. These workers / employees hired by the Contractor will not be the employees of MPMC and there will be no right of regularization or permanency.

25.4 Contractor shall pay the following to each of his employees:

- Net Salary (Salary multiplier * Minimum wages notified by the Government of Punjab from time to time).
- Social Security
- EOBI (Employees Old age Benefits Institution)
- Group Life Insurance as per labor laws.



- Any other benefit as per labor laws.

25.5 The Contractor shall employ the managerial staff as specified below, within its organization. The personal rights of these personnel shall pertain to the Contractor. The Contractor shall pay salaries and all expenses related with the personal rights of these personnel and shall not demand any additional payment from the Client.

25.6 The lists showing the monthly payrolls and the social declarations of the Contractor's workers, under clause 26.3, shall be submitted, at the beginning of every month by the Contractor to the Client.

25.7 Contractor may reject some of the workers of the Client that it will not anticipate to employ or not satisfied of their performance. Furthermore, in case that staff made available to contractor carried out voluntarily some actions contrary to the laws such as strikes, lockouts, slowdown strikes etc. Contractor shall have rights such as to penalize the staff and terminate employment contract.

25.8 The Contractor may return the personnel transferred from the Client in case he is found not working as per the requested performance and he is not obeying the code of conduct and rules of ethics and morality. Such return of personnel is only allowed with the prior approval of client based on strong documentary evidence.

25.9 Health and physical structure of staff to be employed by Contractor shall be as per qualification which will enable them to execute services of tender.

25.10 The Contractor shall have the right to change location, task etc. in order to use available staff in the efficient way.

25.11 The Contractor shall protect rights and liberties of the staff employed under its responsibility and shall never display false and unfair behavior.

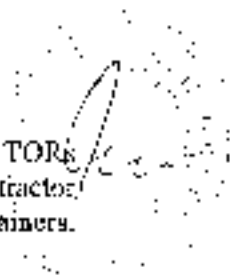
25.12 The contractor shall comply with all employees' weekly and annual holidays. The Client may request for overtime work in case of the natural disasters such as flood, fire etc. if the work schedule sets deadlines.

25.13 The Contractor shall provide to its staff a regular medical examination during this week. In this context, Contractor shall either employ an occupational doctor or ensure staff's medical examinations to be carried out regularly by making an agreement with medical institution.

25.14 Every worker shall be given uniforms and pair of shoes every year (as defined in the Section-III. Technical Specifications, Scope of Services).

26. VEHICLES

26.1 The figures stated in the related section of Technical Specifications / TORs indicates the minimum number of vehicles, containers, equipment and materials. Contractor will maintain and keep functional the specified number of vehicles, machinery, containers.



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE
RESOURCES) FOR DISTRICT KEANEKAL



equipment and material and shall also maintain backup vehicle and equipment

26.2 The number of vehicles, machinery, containers, equipment and material stated in the related section are the estimated figures. At the implementation stage, if Contractor and Client make changes in the implementation, they also make changes in the number of necessary vehicles and equipment upon joint agreement with prior approval of Client's Board of Directors

26.4 The vehicles provided by the Contractor shall be in good working condition and will be inspected by the Client before acceptance. Furthermore, the Contractor is bound to ensure vehicle branding, good aesthetics and provision of fitness certificates.

26.5 Rental cost of any property or asset, movable or immovable, including the vehicles / machinery / equipment to be handed over to the Contractor is not included in cost estimates. However, fuel, IIR and other allied cost associated to that asset / property is included in cost estimates. Contractor shall return these properties & assets to the Client in acceptable working condition.



SECTION-VII. SCHEDULE OF REQUIREMENT / WORK PLAN / DEPUTATION PLAN

Work Plan / Deputation Plan

To be submitted by the Contractor as per the TORs / Scope of Services. Client will approve the plan as per the mechanism defined in HDS, SCC and as per Section-III.

Commencement of Services

(a)— The effective date for commencement of Services is within fifteen (15) days after signing of contract. The machinery will be mobilized within these 15 days mentioned above.

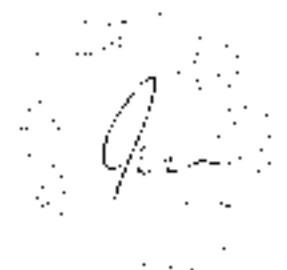
(b)— The infrastructure development for TCPs & waste enclosures will be carried out within thirty (30) days from the signing of the contract without imposing any penalty. Similarly, the contractor will develop the controlled dumpsite within three (03) months from the date of signing of contract without imposing any penalty related to landfill site. However, shift arrangements will be the responsibility of the contractor during this tenure of waste disposal. In case of non-availability of government land for establishment of controlled dumpsite, rent of land will be paid to the contractor with prior approval of the Client.



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE
RESOURCES) FOR DISTRICT KARNEVAL



Section-VIII: Sample Forms





8.1 Bid Form

[To be signed & stamped by the Bidder and reproduced on the letter head as well as on copy of this form. To be attached with the Financial Bid]

To:

Manager P & C

Local Government & Community Development, Department, Government of Punjab,
Building No. 275-RR, Ward # N.E.V. Shamsabad Colony, Near Chungi No.09, Multan Pakistan. Tel: (8266) 430775;
Info.procurement@rgsd.com.pk

Gentlemen:

Having examined the Bidding Document including No _____, the receipt of which is hereby duly acknowledged, for the above Contract, we, the undersigned, offer to deliver the services as specified in Section III of Scope of Services / Technical Specifications / TORs and in conformity with the said bidding document for the Total Bid Price of required services.

Name of Tehsil of Sheikhupura District	Total Bid Price for Three Years (PKR)
Cost of Services for Tehsil X	
Total Bid Price for Three Years (In Words): _____	

[Amounts must coincide with the ones indicated under Total Bid Price in PRICE SCHEDULE 8.9 which shall be inclusive of all applicable / prevailing taxes, duties and other obligations as per TORs/Scope of Services].

Or such other sums as may be ascertained in accordance with the Price Schedule attached hereto and made part of this Bid.

We undertake, if our above stated total bid price for three years for all is accepted, to complete the Work in accordance with the Contract Execution Schedule provided in the Schedule A Special Stipulations to Bid

If our Total Bid for all services is accepted, we will provide the performance security in the sum equivalent to **05 percent** of the Three Years Contract Price as elaborated in BDS & SCC, for the due performance of the Contract

We agree to abide by this Bid for the period of **One Hundred Eighty (180)** days from the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof in your Notification of Contract Award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest-priced or any Bid that you may receive.

Dated this _____ day of _____ 20____.

WITNESS

Bidder Signature Along With Seal

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT BHANEWAL



Signature: _____

Signature: _____

Name: _____

Name: _____

Title: _____

Title: _____

Address: _____

Address: _____





8.2 Bidder's JV Members Information Form

[To be reproduced and signed & stamped by the lead partner and all JV members on their letter Pad, to be attached with Technical Bid in addition to the JV agreement]

[The Service Provider shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Service Provider and for each member of a Joint Venture].

Date: *[insert date (as day month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with [TB 4.4] <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Service Provider.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.



BIDDING FORM 11 - LETTER OF TECHNICAL PROPOSAL

Date:

Outsourcing of Solid Waste Management Services including Primary and Secondary Collection (DTD), Transportation and Disposal of Solid Waste to Dumpsite Site of Insert Tehsil Name (Urban & Rural Areas) the "Project"

To [insert Procuring Agency's address]

We, the undersigned, confirm, undertake and declare that:

- a) We have examined and have no reservations to the Bidding Document issued in accordance with ITB 6 (Amendment of Bidding Documents) dated _____ for the Project
- b) We offer to perform and undertake the Bidder / contractor's Obligations in respect of the Project in conformity with the Bidding Document without any omission, reservation and deviation; and we accept and undertake to comply with all requirements in the Bidding Document including the schedules / annexures attached to the Bidding Documents.
- c) Our Bid consisting of the Technical Proposal and the Financial Proposal shall be valid for a period of 180 days from the date fixed for the Submission Deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- d) As security for due performance of the undertakings and obligations of this Bid, we submit unconditionally herewith the Bid Security drawn in your favor or made payable to you and valid for a period twenty-eight (28) days beyond the period of validity of Bid. We confirm that the Bid Security has been issued and maintained in PKR in accordance with the requirements of the Bidding Documents.
- e) As security for due performance of the undertakings and obligations of this Bid, we submit unconditionally herewith the Bid Security drawn in your favor or made payable to you and valid for a period of 180 days covering the period of validity of Bid. We confirm that the Bid Security has been issued and maintained in PKR in accordance with the requirements of the Bidding Documents.
- f) We, including any Sub-Contractor, have or will have nationalities from eligible / authorized countries, in accordance with the requirements of the Bidding Documents
- g) We, including any Sub-Contractor, do not have any conflict of interest in accordance with the requirements of the Bidding Documents.
- h) We understand that all the schedules / annexures attached to the Bidding Document are integral part of the Bidding Documents.
- i) We undertake to perform the Bidder / contractor's Obligations same within the time period stipulated in Notification of Award.
- j) We understand that this Bid, together with your written acceptance thereof included in your Notification of Award, shall constitute a binding contract between us, until the Contract is cancelled / meets its duration.
- k) We and our Sub-Contractor (if any) neither blacklisted by any authority / entity nor have been involved in any litigation in court and investigation for fraud or corruption in or outside Pakistan. We are not involved in any bankruptcy or

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANNA



- liquidation proceedings. We have not been engaged in any corrupt or fraudulent practices nor have any commissions or gratuities been or are to be paid by us to agents relating to this Bid and Contract's execution.
- b) We are not participating, as a Bidder in more than one Bid in this Bidding Process in accordance with the requirements of the Bidding Document.
 - c) We, our affiliates or subsidiaries, including any Sub-Contractor, have not been declared ineligible under the Procuring Agency's country laws or official regulations.
 - d) We agree to permit the Procuring Agency or its representative to inspect our accounts and records and other documents relating to the Bid submission and to have them audited by auditors appointed by the Procuring Agency at its expense.
 - e) We hereby declare that all the information and statements made in this Bid are true and accept that any misrepresentation contained in it shall lead to our disqualification, forfeiture of the Bid Security and / or our blacklisting by the Procuring Agency.
 - f) We undertake, that if our Bid is accepted, to furnish the Performance Guarantee as per the requirements of the Bidding Document and the Contract within the time mentioned in Notification of Award / Letter of Acceptance
 - g) We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Bidder / contractor's Obligations.
 - h) We understand that the Bidding Document has been issued by the Procuring Agency for the Project; and if our Bid is accepted, we shall execute the Contract for the Project as per the requirements of the Bidding Document

Unless otherwise specified, capitalized terms used herein shall have the same meaning given to them in the Bidding Documents).

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on the behalf of (Name of Bidder)

Date

[Seal]

In the presence of

[Name]
[Signature]
[Title]

[Name]
[Signature]
[Title]





BIDDING FORM T2 - FORM OF INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE BIDDER / CONTRACTOR

Dated _____

[Name of Bidder] (the "Bidder") hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Punjab, Multan Waste Management Company (MWMC), any administrative subdivision or agency thereof or any other entity owned or controlled by Government of Punjab (collectively to be hereinafter referred to as the "GoP") through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Bidder] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Bidder] certifies that it has made and will make full disclosure of all Contracts and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Bidder] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Bidder] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Bidder] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Procuring Agency: Multan Waste Management Company (MWMC)

Name of Bidder: _____

Signature:

[Seal]



BIDDING FORM T3 - FORM OF POWER OF ATTORNEY

KNOWN BY ALL THAT by this Power of Attorney [insert name of Bidder] (the "Bidder") having its head office situated at [*], does hereby nominate, appoint & authorize Mr. [*] S/o Mr. [*] and Mr. [*] S/o Mr. [*] (both of whose specimen signatures are appended below), on behalf of the Bidder, hereinafter referred to as the attorney, to sign the Bid, the ancillary documents, the Acceptance of Notification of Award and the Contract (if awarded the Notification of Award), to negotiate, execute (under hand or under seal), sign and deliver all contracts, instruments, deeds, Contracts, applications and other documents, to make amendments to the same whether or not material, and to submit the same to the Procuring Agency, and to act for and on behalf of the Bidder and to bind the Bidder in relation to the bidding process and all ancillary documents, instruments and evidences submitted pursuant thereto, and generally to take such actions and decisions as may be necessary for the purpose of the bidding, to appear before any appropriate registrar or sub-registrar, represent the Grantor before such registrar and to do all acts and things incidental to registration of any instrument, and to do all other things and to take all necessary steps incidental to the exercise of the above powers or which the Attorney considers necessary or expedient with regard to the foregoing or the effective exercise of any power listed above.

This Power of Attorney is issued with respect to Bidding Document circulated on [insert date Bidding Document is floated] (the "Bidding Documents").

Capitalized terms used herein and not otherwise defined shall bear the meaning ascribed thereto in the Bidding Documents

The Bidder does hereby ratify and confirm whatever the attorney shall do by virtue of these presents.

Specimen signature of Mr. [name of the nominee on behalf of Bidder]

Specimen signature of Mr. [name of the attorney appointed by Bidder]

[Signature]
[Name]

[Designation]
[Bidder / contractor]
WITNESSES:

1. Signature -----
Name -----
S.O/D.O. -----

2. Signature -----
Name -----
S.O/D.O. -----





Address -----

Address -----

Passport / CNIC -----

Passport / CNIC -----

BIDDING FORM T4 – FORM OF AFFIDAVIT

(To be printed on PKR 100 Stamp Paper, duly attested by Oath Commissioner / Notary Public. To be attached with Technical Bid)

Notes for Execution of Affidavit:

- *The mode of execution of the Affidavit should be in accordance with the procedure, if any, laid down by the applicable laws and the same should be under common seal affixed in accordance with the required procedure.*
- *Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a resolution / power of attorney in favor of the person executing this Affidavit for the delegation of power hereunder on behalf of the Bidder.*
- *This Affidavit shall be notarized with the Notary Public.*

Please find below, the form and substance of Affidavit

Date _____



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL



To:

Manager P & C

Local Government & Community Development, Department, Government of Punjab,
Building No. 375/III, Ward 2 XEN, Shamsabad Colony, Near Canal No. 09, Multan, Pakistan. Tel: 052-661-5350/5;
Info.prcurement@mwmc.com.pk

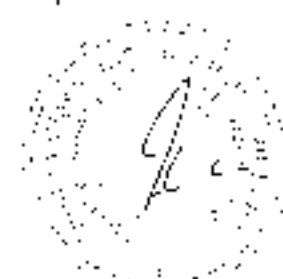
I/We, the undersigned, do hereby certify that all the statements made in the Bidding Document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by Procuring Agency if the Procuring Agency, at any time, deems it necessary.

The undersigned hereby authorize and request the bank, person, bidder / contractor or corporation to furnish any additional information requested by the *Multan Waste Management Company (MWMC)* deemed necessary to verify this statement regarding my (our) competence and general reputation.

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *Multan Waste Management Company (MWMC)*. The undersigned further affirms on behalf of the firm that

- (i) The firm / bidder / contractor has not been blacklisted by any govt. department / agency / firm
- (ii) The documents / photocopies provided with Bid are authentic. In case, any fake / bogus document was found at any stage, MWMC has full right to blacklist our firm / bidder / contractor as per Law / Rules.
- (iii) Affidavit for correctness of information.
- (iv) Contractor / firm is not blacklisted or subject to any pending litigation with any Government or Public Department.
- (v) Integrity Pact: Declaration Of Fees, Commission And Brokerage Etc. Payable By The Suppliers Of Goods, Services & Works in Contracts Worth Rs. 10.00 Million Or More
- (vi) are not in bankruptcy or liquidation proceedings;
- (vii) have not been convicted of fraud, corruption, collusion or money laundering;
- (viii) are not aware of any conflict of interest or potential conflict of interest arising from prior or existing contracts or relationships which could materially affect our capability to comply with the obligations under the Contract;
- (ix) [are legally and financially autonomous and operate under commercial law]¹; and
- (x) all pending actions, suits, arbitration or legal, administrative, governmental or other proceedings or litigation pending or threatening against the Bidder ("Claims") does not in total represent more than 50% of the its net worth, nor are there any Claims that prevent or materially impede the Bidder from its obligations in respect of the Bidder / contractor's Obligations and the terms of the Contract.

¹ Only relevant for the government owned legal enterprise or institution



OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANUWAL



That whatever stated above is true and correct to the best of my knowledge and belief and nothing has been concealed therein.

DEPONENT

Verified an oath at _____ on this ____ day of _____, 2024 that the contents of the above Affidavit are true and correct to the best of my knowledge and belief.

DEPONENT

WITNESSES:

a) _____

Name -----

Address -----

CNIC -----

b) _____

Name -----

Address -----

CNIC -----



**BIDDING FORM T5 BIDDER / CONTRACTOR'S ORGANIZATION
AND EXPERIENCE**

A - Bidder / contractor's Organization

*[Provide here a brief (two pages) description of the background and organization of your
firm/entity and each associate for this assignment.]*



B - Contractor's Experience

(Using the format below provide information on each assignment for which your firm, and each associate for this assignment, was legally contracted either individually or as a corporate entity or as one of the major companies within an association, for carrying out consulting services similar to the ones requested under this assignment.)

Assignment name:	Approx. value of the contract (in current US\$ or Euro):
Country: Location within country:	Duration of assignment (months):
Name of PA:	Total No of staff months of the assignment:
Address:	Approx. value of the services provided by your firm under the contract (in current PKR):
Start date (month/year): Completion date (month/year):	No of professional staff-months provided by associated:
Name of associated Contractor, if any:	Name of senior professional staff of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader):
Narrative description of Project:	
Description of actual services provided by your staff within the assignment	

Firm's Name: _____



BIDDING FORM T6- FORM OF BID SECURITY

BANK GUARANTEE

Guarantee No.

Executed on _____

Expiry date _____

[Letter by the Bank to the Procuring Agency]

Name of Bank (Bank) with address: _____

Name of Principal (Bidder) with address: _____

Guaranteed Amount (express in words and figures): _____

Date of Bid _____

The above premises, we (the Bank) hereby undertake irrevocably and unconditionally on demand to pay to Multan Waste Management Company (MWMC) (the Procuring Agency), without any objection, question or delay and without any notice, reference or recourse to the Bidder or to any other entity or without the necessity of any legal or judicial proceedings and without any set-off and without any counterclaim and without any recourse or reference to any document, Contract, instrument or deed, any sum or sums (or any part thereof) equivalent in aggregate up to but not exceeding a maximum amount of:

[●] [●] / - ([●] [●])

{The Guaranteed Amount}

at sight and immediately upon the receipt of the Procuring Agency's first written demand (the Demand) at the Bank's offices located at [●] or through SWIFT instructions transmitted by the Procuring Agency's bank (i.e. [●]), on behalf of the Procuring Agency, to the Bank, such Demand stating:

- a) that the Bidder is in breach of its obligations towards the Procuring Agency; and
- b) the total amounts demanded.

A Demand shall only be honored by us (i) in the case of a written Demand, if it is made by and bears the signature of an authorized officer or other representative of the Procuring Agency; or (ii) in the case of a Demand transmitted through SWIFT, if it is transmitted through authenticated SWIFT instructions by the Procuring Agency's bank (i.e. [●]), on behalf of the Procuring Agency.

We, the Bank, shall unconditionally honor a Demand hereunder made in compliance with this Bank Guarantee at sight and immediately on the date of receipt of your Demand, as stated earlier, and shall transfer the amount specified in the Demand to the bank account, as notified in the Demand, in immediately available and freely transferable funds in the currency of this Bank Guarantee, free and clear of and without any set-off or deduction for or on account of any present or future taxes, levies, imposts, duties, charges, fees, deductions or withholdings of

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KWAMEKAL.



any nature whatsoever and by whomsoever imposed.

Such demand must be received by us on or before the [●] (the Expiry Date), when this Bank Guarantee shall expire and shall be returned to us.

We have been informed that the Procuring Agency may require the Bidder to extend this Bank Guarantee if the Performance Security has not been issued thirty (30) days prior to such expiry date. We undertake to immediately pay you such guaranteed amount upon receipt by us of your demand in writing and your written statement that the Performance Security has not been issued and that this Bank Guarantee has not been extended.

Upon expiry, this Bank Guarantee shall be returned to the Bidder without undue delay.

The Guaranteed Amount shall be revised upon receipt by us of a notice duly signed by the Procuring Agency and the Bidder of the revised guaranteed amount.

We hereby agree that any amendment, renewal, extension, modification, compromise, release or discharge by mutual Contract by the Procuring Agency, the Bidder or any other entity of any document, Contract, instrument or deed shall not in any way impair or affect our liabilities hereunder and maybe undertaken without notice to us and without the necessity for any additional endorsement, consent or guarantee by us.

This Bank Guarantee for its validity period shall not be affected in any manner by any change in our constitution or of the Bidder's constitution or of their successors and assignees and this Bank Guarantee shall be legally valid, enforceable and binding on each of their successors and permitted assignees.

The obligations of the Bank for the payment of the Guaranteed Amount, are absolute irrespective of the insolvency, bankruptcy, reorganization, dissolution and / or liquidation of the Bidder or occurrence of an event of Force Majeure such as (but not limited to) acts of God, riots, pandemics, civil commotions, insurrections, wars, strikes or lockouts, relating to the Bidder or the Bank or occurrence of any other causes beyond the control of the Bidder or the Bank or any other act or omission by Procuring Agency or occurrence of any event which but for this provision or any other provision of this Guarantee might exonerate or discharge or release Bank's liability hereunder.

The Bank agrees that their liability to Procuring Agency hereunder shall not be affected, reduced and/or extinguished by any disputes between the Bidder and Procuring Agency or by the existence of any litigation or arbitration between the Bidder and Procuring Agency.

The Bank represents and undertakes that the Bank has full power, authority, and legal right to incur obligations under, and to exercise and deliver, and to perform and observe the terms and provisions of this Guarantee and that the Bank has complied with all necessary regulations with respect to the issuance of this Guarantee and this Guarantee constitutes a

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT ZHANEWAL



valid and binding obligation on the Bank's part, enforced in accordance with the terms hereof.

In the event that the Bank fails to make payment to Procuring Agency of the full amount of any of its demands upon receipt of the first simple demand by Procuring Agency (or at the latest by close of business hours on the day of such demand), the Bank will become liable to Procuring Agency and shall make payment to Procuring Agency of an additional amount (in addition to the amount of Procuring Agency's demand) equivalent to the Interbank Offered Rate (at the Offer rate) plus 5% per annum of the amount of Procuring Agency's demand pro rata for each day the amount is not paid by the Bank from the day of the receipt of the demand, together with all costs and expenses incurred by Procuring Agency (including legal costs) for effecting recovery from the Bank.

All references to any contract, Contract, deed or other instruments or documents are by way of reference only and shall not affect our obligations to make payment under the terms of this Bank Guarantee.

If one or more of the provisions of this Bank Guarantee are held or found to be invalid, illegal, or unenforceable for any reason whatsoever, in any respect, any such invalidity, illegality, or unenforceability of any provision shall not affect the validity of the remaining provisions of this Bank Guarantee.

We hereby declare and confirm that under our constitution and applicable laws and regulations, we have the necessary power and authority, and all necessary authorizations, approvals and consents thereunder to enter into, execute, deliver and perform the obligations we have undertaken under this Bank Guarantee, which obligations are valid and legally binding on and enforceable against us under the laws of Pakistan and under the laws of the jurisdiction where this Bank Guarantee is issued. Further, that the signatory (ies) to this Bank Guarantee is / are our duly authorized officer(s) to execute this Bank Guarantee

This Bank Guarantee and all rights and obligations arising from this Bank Guarantee shall be governed and construed in all respects in accordance with the laws of Pakistan. The courts in Pakistan shall have exclusive jurisdiction in respect of any dispute relating to any matter contained herein

The issuance of this Bank Guarantee is permitted according to the laws of Pakistan and the laws of the jurisdiction where this Bank Guarantee is issued.

This Bank Guarantee is subject to the Uniform Rules for Demand Guarantee, ICC Publication No.758.

Name:

Designation:



BIDDING FORM FI - LETTER OF FINANCIAL PROPOSAL

Date:

Outsourcing of Solid Waste Management Services including Primary and Secondary Collection, Transportation and Disposal of Solid Waste to Dump Site of insert Tehsil Name (Urban and Rural AREAS) (the "Project")

To:
Manager P & C

Local Government & Community Development Department, Government of Punjab,
Building No. 275-III, Ward # XV, Shamsabad Colony, Near Canal No. 09, Multan Pakistan
Tel: 11921661-9330135; info.procurement@mwmc.com.pk

We, the undersigned, confirm, undertake and declare that:

- a) We have examined and have no reservations to the Bidding Document issued in accordance with ITB 6 (Amendment of Bidding Documents) dated for the Project.
- b) We offer to perform and undertake the Bidder / contractor's Obligations in respect of the Project in conformity with the Bidding Document without any omission, reservation and deviation; and we accept and undertake to comply with all requirements in the Bidding Documents, including the schedules / annexures attached to the Bidding Documents.
- c) The Bid Price, inclusive of all federal, provincial and local duties, levies and taxes (including Bidder / contractor Taxes) is PKR [insert amount].
- d) Our Bid consisting of the Technical Proposal and the Financial Proposal shall be valid for a period of 150 days from the date fixed for the Submission Deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- e) We, including any Sub-Contractor, have or will have nationalities from eligible countries, in accordance with the requirements of the Bidding Document.
- f) We, including any Sub-Contractor, do not have any conflict of interest in accordance with the requirements of the Bidding Document.
- g) We understand that all the schedules / annexures attached to the Bidding Document IS integral part of the Bidding Document.
- h) We undertake to perform the Bidder / contractor's Obligations within the time period stipulated in Notification of Award.
- i) We understand that this Bid, together with your written acceptance thereof included in your Notification of Award, shall constitute a binding contract between us, until the Contract (attached as Part II to the Bidding Document) is executed.
- j) We have not been blacklisted by any authority / entity and have not been involved in any investigation for fraud or corruption in or outside Pakistan. We are not involved in any bankruptcy or liquidation proceedings. We have not been engaged in any corrupt or fraudulent practices nor have any commissions or gratuities been or are to be paid by us to agents relating to this Bid and Contract's execution.
- k) We are not participating, as a Bidder in more than one Bid in this Bidding Process in accordance with the requirements of the Bidding Document.
- l) We, our affiliates or subsidiaries, including any Sub-Contractor for any part of the Bidder / contractor's Obligations, have not been declared ineligible under the Procuring



Agency's country laws or official regulations

- m) We agree to permit the Procuring Agency or its representative to inspect our accounts and records and other documents relating to the Bid submission and to have them audited by auditors appointed by the Procuring Agency at its expense.
- n) We hereby declare that all the information and statements made in this Bid are true and accept that any misrepresentation contained in it shall lead to our disqualification, forfeiture of the Bid Security and / or our blacklisting by the Procuring Agency.
- o) We undertake, if our Bid is accepted, to furnish the Performance Security as per the requirements of the Bidding Document and the Contract. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Bidder / contractor's Obligations.
- p) We understand that the Bidding Document has been issued by the Procuring Agency for the Project and if our Bid is accepted, we shall execute the Contract for the Project as per the requirements of the Bidding Document.

{Unless otherwise specified, capitalized terms used herein shall have the same meaning given to them in the Bidding Documents}.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on the behalf of (Name of Bidder)

Date

[Seal]

In the presence of

{Name}

{Signature}

{Title}

{Name}

{Signature}

{Title}



BIDDING FORM F2 FIN FORM

PRICE SCHEDULE (LOT # 1 TEHSIL KHANEWAL)

<u>Name of Tehsil of Khanewal District</u>	<u>Total Bid Price for Three Years (PKR)</u>
Cost of Services for TEHSIL KHANEWAL	

Total Bid Price for Three Years (In Words):

Note: Total Bid Price shall be inclusive of all applicable / prevailing taxes, duties, charges and other obligations as per TORs/Scope of Services.

PRICE SCHEDULE (LOT # 2)

<u>Name of Tehsil of Khanewal District</u>	<u>Total Bid Price for Three Years (PKR)</u>
Cost of Services for TEHSIL KABIRWALA	

Total Bid Price for Three Years (In Words):

Note: Total Bid Price shall be inclusive of all applicable / prevailing taxes, duties, charges and other obligations as per TORs/Scope of Services.

PRICE SCHEDULE (LOT # 3)

<u>Name of Tehsil of Khanewal District</u>	<u>Total Bid Price for Three Years (PKR)</u>
Cost of Services for TEHSIL JAHANIAN	

Total Bid Price for Three Years (In Words):

PRICE SCHEDULE (LOT # 4)

<u>Name of Tehsil of Khanewal District</u>	<u>Total Bid Price for Three Years (PKR)</u>
Cost of Services for TEHSIL MIAN CHANNU	

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANDWA



Total Bid Price for Three Years (In Words):

Note: Total Bid Price shall be inclusive of all applicable / prevailing taxes, duties, charges and other obligations as per TORs/Scope of Services.

Stamp & Signature of Bidder _____



BIDDING FORM F3 – FORM OF PERFORMANCE GUARANTEE

BANK GUARANTEE

Guarantee No.
Executed on
Expiry date

[Letter by the Bank to the Procuring Agency]

Name of Bank (Bank) with address:

Name of Principal (Bidder) with address:

Guaranteed Amount (express in words and figures):

Date of Bid

The above premises, we (the Bank) hereby undertake irrevocably and unconditionally on demand to pay to Multan Waste Management Company (MWMC) (the Procuring Agency), without any objection, question or delay and without any notice, reference or recourse to the Bidder or to any other entity or without the necessity of any legal or judicial proceedings and without any set-off and without any counterclaim and without any recourse or reference to any document, Contract, instrument or deed, any sum or sums (or any part thereof) equivalent in aggregate up to but not exceeding a maximum amount of:

[●] [●];- ([●][●]);
(the Guaranteed Amount)

at sight and immediately upon the receipt of the Procuring Agency's first written demand (the Demand) at the Bank's offices located at [●] or through SWIFT instructions transmitted by the Procuring Agency's bank (i.e. [●]), on behalf of the Procuring Agency, to the Bank, such Demand stating:

- a) that the Bidder is in breach of its obligations towards the Procuring Agency; and
- b) the total amounts demanded.

A Demand shall only be honored by us (i) in the case of a written Demand, if it is made by and bears the signature of an authorized officer or other representative of the Procuring Agency; or (ii) in the case of a Demand transmitted through SWIFT, if it is transmitted through authenticated SWIFT instructions by the Procuring Agency's bank (i.e. [●]), on behalf of the Procuring Agency.

We, the Bank, shall unconditionally honor a Demand hereunder made in compliance with this Bank Guarantee at sight and immediately on the date of receipt of your Demand, as stated earlier, and shall transfer the amount specified in the Demand to the bank account, as notified in the Demand, in immediately available and freely transferable funds in the currency of this Bank Guarantee, free and clear of and without any set-off or deduction for or on account of any present or future taxes, levies, imposts, duties, charges, fees, deductions or withholdings of any nature whatsoever and by whomsoever imposed.

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANNA



Such demand must be received by us on or before the [●] (the Expiry Date), when this Bank Guarantee shall expire and shall be returned to us.

We have been informed that the Procuring Agency may require the Bidder to extend this Bank Guarantee if the Performance Security has not been issued thirty (30) days prior to such expiry date. We undertake to immediately pay you such guaranteed amount upon receipt by us of your demand in writing and your written statement that the Performance Security has not been issued and that this Bank Guarantee has not been extended.

Upon expiry, this Bank Guarantee shall be returned to the Bidder without undue delay.

The Guaranteed Amount shall be revised upon receipt by us of a notice duly signed by the Procuring Agency and the Bidder of the revised guaranteed amount.

We hereby agree that any amendment, renewal, extension, modification, compromise, release or discharge by mutual Contract by the Procuring Agency, the Bidder or any other entity of any document, Contract, instrument or deed shall not in any way impair or affect our liabilities hereunder and may be undertaken without notice to us and without the necessity for any additional endorsement, consent or guarantee by us.

This Bank Guarantee for its validity period shall not be affected in any manner by any change in our constitution or of the Bidder's constitution or of their successors and assignees and this Bank Guarantee shall be legally valid, enforceable and binding on each of their successors and permitted assignees.

The obligations of the Bank for the payment of the Guaranteed Amount, are absolute irrespective of the insolvency, bankruptcy, reorganization, dissolution and / or liquidation of the Bidder or occurrence of an event of Force Majeure such as (but not limited to) acts of God, riots, pandemics, civil commotions, insurrections, wars, strikes or lockouts, relating to the Bidder or the Bank or occurrence of any other causes beyond the control of the Bidder or the Bank or any other act or omission by Procuring Agency or occurrence of any event which but for this provision or any other provision of this Guarantee might exonerate or discharge or release Bank's liability hereunder.

The Bank agrees that their liability to Procuring Agency hereunder shall not be affected, reduced and/or extinguished by any disputes between the Bidder and Procuring Agency or by the existence of any litigation or arbitration between the Bidder and Procuring Agency.

The Bank represents and undertakes that the Bank has full power, authority, and legal right to incur obligations under, and to exercise and deliver, and to perform and observe the terms and provisions of this Guarantee and that the Bank has complied with all necessary regulations with respect to the issuance of this Guarantee and this Guarantee constitutes a valid and binding obligation on the Bank's part, enforced in accordance with the terms hereof.

In the event that the Bank fails to make payment to Procuring Agency of the full amount of any of its demands upon receipt of the first simple demand by Procuring Agency (or at the latest by close of business hours on the day of such demand), the Bank will become liable to Procuring Agency and shall make payment to Procuring Agency of an additional amount (in

OUTSOURCING OF SOLID WASTE MANAGEMENT SERVICES (ALONG WITH AVAILABLE RESOURCES) FOR DISTRICT KHANEWAL.



addition to the amount of Procuring Agency's demand) equivalent to the Interbank Offered Rate (at the Offer rate) plus 5% per annum of the amount of Procuring Agency's demand pro rata for each day the amount is not paid by the Bank from the day of the receipt of the demand, together with all costs and expenses incurred by Procuring Agency (including legal costs) for effecting recovery from the Bank.

All references to any contract, Contract, deed or other instruments or documents are by way of reference only and shall not affect our obligations to make payment under the terms of this Bank Guarantee.

If one or more of the provisions of this Bank Guarantee are held or found to be invalid, illegal, or unenforceable for any reason whatsoever, in any respect, any such invalidity, illegality, or unenforceability of any provision shall not affect the validity of the remaining provisions of this Bank Guarantee.

We hereby declare and confirm that under our constitution and applicable laws and regulations, we have the necessary power and authority, and all necessary authorizations, approvals and consents thereunder to enter into, execute, deliver and perform the obligations we have undertaken under this Bank Guarantee, which obligations are valid and legally binding on and enforceable against us under the laws of Pakistan and under the laws of the jurisdiction where this Bank Guarantee is issued. Further, that the signatory (ies) to this Bank Guarantee is / are our duly authorized officer(s) to execute this Bank Guarantee.

This Bank Guarantee and all rights and obligations arising from this Bank Guarantee shall be governed and construed in all respects in accordance with the laws of Pakistan. The courts in Pakistan shall have exclusive jurisdiction in respect of any dispute relating to any matter contained herein

The issuance of this Bank Guarantee is permitted according to the laws of Pakistan and the laws of the jurisdiction where this Bank Guarantee is issued.

This Bank Guarantee is subject to the Uniform Rules for Demand Guarantee, ICC Publication No. 758.

Name:

Designation:



Section IX- Check List

(To be signed and stamped and presented on Bidder's letter head pad)

The provision of this checklist is essential prerequisite along with submission of tenders (with technical proposal).

Sr. #	Detail	Yes	No
1	Copy of the receipt for purchase of tender along with Original Bidding Document with signed and stamp by authorized Person.		
2	Bid Security of estimated cost. The Bid security must be submitted with technical proposal.		
3	Forms of Technical & financial Bid (as per Section VIII of Bidding documents) on letter head of the firm duly signed and stamped and on the non-judicial stamp paper duly attested by Oath Commissioner / notary Public (where applicable).		
4	All documents required as per the TORs / Scope of Services.		
5	All documents required as per the Evaluation Criteria.		

Stamp & Signature of Bidder _____