

<b>DESIGN, SUPPLY AND CONSTRUCTION OF KENYA LEATHER PARK (MACHAKOS) COMMON EFFLUENT TREATMENT PLANT AND ASSOCIATED INFRASTRUCTURE AT KINANIE EPZ SITE, MACHAKOS COUNTY</b>				
<b>KLP/KLDC-EPZA/01/2016-2017</b>				
<b>Sr. No</b>	<b>Tender Reference</b>	<b>Tender Specifications</b>	<b>Clarification Required</b>	<b>Client Response</b>
1.	Volumes 2, Employer Requirement Section 5, Process requirement page no 2. 10MLD hydraulic condition	HFL of the receiving water body is not specified	Kindly specify HFL at disposal point to prepare hydraulic profile for proposed CETP	The HFL is 1472 masl, Normal Flood Level is 1470masl and the Bed Level is 1465 masl
2.	Volumes 2, Employer Requirement Section 5, Process requirement page no 11. 5.8.2 for 10MLD CETP	The receiving chamber will receive raw effluent (2.5MLD shall be primary treated effluent from 2.5MLD WWTP and 7.5 MLD shall be raw effluent from EPZA). This shall be screened and pumped using effluent transfer pumps (installed in the wet well) to stilling chamber.	Effluent from 2.5 MLD has already passed through screen and grit removal hence there is no need to pass it again through the same process in 10 MLD SCETP. So effluent from 2.5 MLD can be directly taken to equalization tank of 10 MLD SCETP so that it will be economical in designing of screen and grit chamber to 7.5 MLD. Kindly check and confirm.	This is acceptable.
3.	Volume 3. Book of drawings, PIPING AND INSTRUMENTATION DIAGRAM (2.5 MLD WWTP)(LIP) page no. 42	P and ID has grit chamber shown and it has SPS shown	In process flow Drawing the effluent from 2.5 MLD will flow to 10 MLD by gravity whereas per P and ID pumping station is shown to pump effluent to 10 MLD CETP. Kindly clarify.	The design was altered for the treated effluent from the 2.5 MLD to flow by gravity to the receiving chamber of the 10 MLD Plant. The P & ID diagram SW-PI-01 will be clarified to reflect the same.
4.	Volumes 2, Employer Requirement Section 5, Process requirement page no 16. 5.8.3.16 Sludge Sump and Pump House ( Pump house to be common for Biological and Chemical Sludge Handling Systems)	The sludge withdrawn from the SBR basins using SAS pumps shall be collected in biological sludge sump. Whereas as the sludge withdrawn from the primary settling basin is collected in chemical sludge sump. Sludge	It is mentioned that biological sludge and primary sludge to be collected in separate sump and pumped to centrifuge and belt filter separately which will not be economical. Sludge from primary clarifier and secondary sludge can be collected	This is acceptable. Bidders may propose Combo Units.

		pumps will be provided in the sludge pumping stations with necessary valves and piping. The pump house will have rising main (D1 K-9 D/F) from pumping station up to centrifuge (biological sludge) / belt press (for chemical sludge). The sludge will be pumped to the centrifuge/belt press for dewatering.	in a single sump and pumped to either centrifuge or belt filter press which will be economical. Kindly accept.	
5.	Drawings	Drawings and technical specification not matching	HFO, P and 10, Layout provided are not in line with technical specification provided in volume 2 Section 5. We kindly request you to provide us the revised drawings as per specifications.	Kindly cross-check your information.
6.	Volumes 2, Employer Requirement Section 5, Process requirement page no 20, 5.8.5 Chrome Recovery Unit (at 2.5MLD WWTP)	Chrome recovery unit	i)Kindly specify the location of chrome recovery unit. Please provide details of disposal of effluent after Chrome recovery unit ii) Will Effluent from the Chrome Recovery Unit be conveyed to the 10 MLD plant?	i)Refer to Volume 3, Book of Drawings: Drawing No. SW-LP-05 indicating details of disposal. The Chrome Recovery Unit is located adjacent to the 2.5MLD  ii)The effluent from the Chrome Unit will be conveyed to the 2.5 MLD for treatment. See details on above drawing.
7.	Volumes 2, Employer Requirement Section 5, Process requirement page no 26. 5.9.9 Equalisation Tank )	Type of air blower not mentioned	Kindly specify the type of air blower 10 be provided whether it will be centrifugal blower or Root type?	For Air Blower Type Refer to Section 8.18.2 of the Specifications
8.	Volumes 2, Employer Requirement Section 5, Process requirement page no 29, 5.9.14 Settling tank/	Detention time for primary clarifier mentioned as 3-6 hours	It is mentioned as detention time to be provided is 3 to 6 hours. As per the standard design criteria requirement's detention time	Retention time should be 2.0-2.5

	Clarifier (primary Sedimentation)		provided for settling should be between 1.5 -2.5 hours maximum above which leads to septicity. Kindly clarify the same.	
9.	Volumes 2, Employer Requirement Section 5, Process requirement page no 33, 5.9.18 Dosing Systems for Primary clarifier/Sedimentation Tank/Sludge blanket Clarifier	alum, lime and polyelectrolyte dose not mentioned	Kindly specify the design dosage of alum, lime and polyelectrolyte to be considered for designing.	Alum: Alum $\text{Al}_2\text{SO}_4 \cdot 16 \text{H}_2\text{O}$ (25-50 $\text{m}^3/\text{m}^2/\text{d}$ ) Lime Ca (OH) (30-60 $\text{m}^3/\text{m}^2/\text{d}$ ) Polyelectrolyte (1-2 mg/l)
10.	Volumes 2, Employer Requirement Section 5, Process requirement page no 33 .5.9.19 Chlorine contact tank	Chlorine dose not mentioned, Chlorinator type and number not mentioned	Kindly specify chlorine dose to be used for disinfection. Kindly specify the type of chlorinator and number of working and standby chlorinator to be provided.	Depending on and Temperature. Normally 2.5 to 3 mg/l Type of Chlorinator: Vacuum feed type. 2No. operating in cyclic manner
11.	Geotechnical Report	Geotechnical data not provided	We request you to kindly provide the Geotechnical data and interpretive report to ascertain bearing capacity of the proposed plant site.	Allow for upto 3.5 m excavation in soft materials and thereafter rock excavations. Notice the succeeding sentence: However, employer and engineer make no guarantees or representations whatsoever regarding this information. Contractor's use of this information shall be at his own risk. The Contractor shall independently obtain any and all site information necessary for proper planning, design, and operation of all components in the contract.

12.	Volume II, Section 5. 5.9.17 Aeration/ SBR Basins, page no. 32.	Max air flow per effective area (effective area for tubular diffusers for upper half only) 101	We understand that the maximum air flow per effective area of diffuser is 101 Nm <sup>3</sup> /h/m <sup>2</sup> of diffuser area. Please confirm	This is confirmed.
13.	Volume II. Section 5. 5.7 General Design Requirements. page no. 9  Volume II. Section 5. 5.9.21 Sludge Handling, page no. 35	For sludge pipe line the velocity of flow shall be in the range of 1.5 to 1.8 m/sec. All mixed liquor and sludge lines shall be minimum 200 mm diameter  For Pumping Max diameter of piping 200 mm Velocity 1.5-1.8 m/s	We understand that the sludge pumping pipeline, the diameter of piping shall be as per velocity in the range of 1.5- 1.8 m/s.  Please confirm.	i)For sludge pipe line, the velocity of flow shall be in the range of 1.5 to 1.8 m/sec. Diameter/size of the pipeline is as per the velocity given.  ii)For liquids, the pipe flow velocity shall be in the range of 0.5 m/s-1.5 m/s for pumped suction iii)A range of 0.5 m/s-2.0 m/s for pumped discharge or gravity flow
14.	Volume II. Section 5, 5.9.17 Aeration/ SBR Basins, page no. 32  Volume II. Section 8. 8.I8.5 Diffused Aeration System, page no. 47	Diffuser type- Retrievable/ fixed  The diffuser grid shall be of fixed type	We understand that both fixed and retrievable diffusers are allowed.  Please confirm.	This is confirmed
15.	Volume 2, Section 13 A, Particular Requirements Instrumentation & Control, page 1 of 95	Design, Supply, Install, test and commission a dual redundant PLC based SCADA system for WWTP/CETP	We understand that redundant PLC/SCADA has been specified to avoid long interruption in the plant operation and controls. Alternatively, it can also be achieved by providing normal non-redundant PLC/SCADA along with spares like pre- programmed PLC hardware like CPU, Power supply etc. In the unlikely event of PLC system	Proposal not allowed.

			<p>failure the same can be made functional within 1-2 hrs with the help of spares. Kindly confirm that we can consider non-redundant PLC &amp; SCADA with required spares.</p>	
16.	Volume I. 2.4.2 (b) Specific Experience. page no 7	Form EXP- 2.4.2 (c)	Please provide the format for form 2.4.2 (c).	The forms are indicated as Application Form 2.4.1, Form 2.4.2 (a) and Form 2.4.2 (b)
17.	Volume I, 2.4.2 (b) Specific Experience, page no 7	<p>All partners combined - Must meet requirements Each Partner - Must meet requirements At least one partner - Must meet requirements</p>	<p>We understand that: All partners combined - Must meet requirements Each Partner – N/A At least one partner – N/A</p> <p>Please confirm</p>	At least one partner - Must meet requirements
18.	Volume I - clause no. 20.5, page no. 14	If a bid security is specified pursuant to ITB 20.1. the bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security pursuant to ITB 42.	<p>We request you kindly mention the time in days to return the Bid security of unsuccessful bidder. We request kindly keep the time frame within 30 days from the date of Letter of award given to the successful bidder.</p>	This general ITB cannot be altered.
19.	Volume I. Section II. Bid Data Sheet, ITB 21.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Power of attorney of the signatory of the bid (Certified by the Commissioner of Oaths in Kenya).	<p>As the tender is ICB, we as INDIAN bidder, kindly confirm us power of attorney given on "INR 100 stamp paper" issued by Govt. of India, is certified by commissioner of Kenya or not?</p> <p>If not, as the works is ICB we request you kindly consider this as Authentic document for Power of</p>	This is ACCEPTABLE

			Attorney purpose.	
20.	Vol - I. Section III, Evaluation and Qualification Criteria, 2.1 Eligibility criteria, sub clause no. 2.1.1. nationality	Requirement _ Main Civil Works Contractor must be legally registered in Kenya and registered under NCA I	As this tender is international competitive bidding, we request you kindly consider registration as main civil works contractor in Bidders country which is equivalent to Kenya for bidding purpose only.  On award of contract contractor will get registered in Kenya and NCA - I.	No. The Main Civil Works contractor must be registered in Kenya under NCA 1. Joint Ventures with competent qualifying Kenyan firms are encouraged.
21.	Vol - I, Section - III. Clause No. 2.1 qualification criteria, sub clause 110. 2.4.2 Specific Experience	(a) Participation as sole entity or a Lead Partner in a Joint Venture having successfully executed, including complete Design, Procurement, installation. Construction, Testing and Commissioning of all Civil, Electrical, Mechanical, Instrumentation/SCADA works of minimum three(3) Nos CETPs/ETPs Contracts, each of minimum 10MLD capacity based on Sequential Batch Reactor(SBR) CETPs/ETPs shall have been completed within the last 10 years immediately preceding the date of bid submission and shall have been in successful operation for at least 2 years	We request you to modify the clause 2.4.1 (a) as under: Participation as sole entity or a Lead Partner in a Joint Venture having successfully executed, including complete Design, Procurement, Installation, Construction, Testing and Commissioning of all Civil, Electrical, Mechanical, Instrumentation /SCADA works of minimum three (3) Nos <b><u>CETPs/ETP/STPs</u></b> Contracts, each of minimum 10 MLD capacity based on Sequential Batch Reactor(SBR). <b><u>CETPs/ETPs/STPs</u></b> shall have been completed within the last 10 years immediately preceding the date of bid submission and shall have been in successful operation	This is acceptable

		preceding the date of bid submission	for at least 2 years preceding the date of bid submission  Which results healthy competition, is benefits to the Employer only.	
22.	Vol - 1, Section - III, clause 2.1 qualification criteria, sub clause no. 2.4.2 Specific Experience	b) Participation as sole entity or a Lead Partner in a Joint Venture having particular experience in Operation and Maintenance of at least one (1) Nos. CETP/ETP of minimum 10 MLD capacity based on Sequential batch Reactor (SBR) for at least 1 year within the last 10 years Immediately preceding the date of bid submission.	We understand that 2.4.2 (b) is for technology provider and the aforementioned clause is not applicable.	At least one member of a joint venture(if one if formed) must meet this requirement
23.	Vol - I, Annexure - 2, Price schedules, sub-clause no. 9, Taxes	9.1 The rates entered in the Price Schedules by the Contractor shall include all taxes, duties and fees required to be paid by him under the Contract, including any tax, duty or fee which the Contractor considers exempt from payment by him	We request you kindly provide the details of taxes and duties applicable for supply and works for the proposed works in Kenya for International Bidder.  We also request you kindly clarify / provide information on which Items required for the proposed works are tax/duty/ levies are exempted.	You are requested to visit the Kenya Revenue Authority Website on applicable taxes.
24.	Vol- I, Bill of quantity, Price schedule	Operation and maintenance cost	We request you kindly clarify for O & M cost to be quoted in which Schedule, as we do not find the same in price schedule separately.	Price Schedule 1: Prelim and General Item 1.1.40

25.	Vol - I, Annexure - 2. Price Schedule' SCHEDULE OF MILE STONE PAYMENT· F	<p>F. Mile Stone payment Breakup for Piping, Mechanical. Instrumentation works along with spares as specified.</p> <p>1- Against supply – 70% 2- On erection of all equipment ... - 15% 3- On testing, commissioning,... – 10%</p>	<p>We request you kindly consider the payment break up for Piping, mechanical, electrical and instrumentation items as per following;</p> <p>I- Against supply - 85% 2- On erection of all equipment ... – 10% 3 - On testing, commissioning ... - 5%</p> <p>This will help to a contractor for easy financial rotation and results smooth running of project, also contractor has to give advances to the supplier which is also 20 to 30%. Hence we request you kindly consider our request for above mentioned payment break up.</p>	<p>The Price Payment Break-up will be negotiated with successful Bidder</p>
26.	Vol - 1, Section VII, Advance payment Security	<p>13.2 Advance Payment Security</p> <p>13.2.1 ·The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix to the Contract Agreement titled Terms and Procedures of Payment. and in the same currency or currencies.</p>	<p>As per clause Advance payment provide by the Employer against submission of BG, We request you kindly mention the % of advance payment available. We also request you kindly keep the advance payment at least 10% of the final contract amount.</p>	<p>On page of “<b>Particular Conditions</b>” insert the following:</p> <p>PC13: Securities</p> <p><b>PC 13.2.1 Advance Payment Security</b> Contractor will be entitled to <b>Advance Payment of 20% of Contract Sum</b> upon submission of an irrevocable Bank Guarantee acceptable to the Employer</p> <p><b>PC 13.3.1 Performance Security</b></p>



				Performance Security will be <b>10% of Contract Sum</b>
27.	General	Approved Make list	Kindly provide list of approved makes for Civil, Mechanical, and Electrical items. Also provide list of approved makes from India.	There are no approved Make List
28.	General	Equipment/ Machinery / Material free issue for proposed work by employer	Pls. provide list of equipment/ machinery/material free issue or on chargeable basis provided by Employer to bidder.	No equipment/machinery/materials on free issues from employer
29.	Variation in Taxes/duties and levies	17. Bid Prices and Discounts, prices are firm and fixed	We request you kindly provide price variation due to change in taxes / implementation of new taxes, duties and levies if any, as it will major factor which affects the overall contract prices.	Price Variation not allowed.
30.	Price escalation	17. Bid Prices and Discounts, prices are firm and fixed	We request you kindly provide price escalation especially in civil supply viz. steel/ cement etc.	No Price escalation is allowed.
31.	Volume 2, Employer Requirement Section 5 process requirement page no 36, 5.13 Roads. Pathways & Vehicular Parking Area  Volume 2, Employer Requirement Section 10, Page no 33, 10.15 Roadways, Pathways & Hard standings	Roads shall be 4.50 m wide as per detailed specifications in Section 10 A  All roads shall be of asphalt macadam and minimum 5 meters wide	          There is discrepancy in road width to be considered kindly clarify the same	Road width will be 5.0 m.
32.	Chrome removal unit	Commissioning details not mentioned	Kindly specify the details regarding chrome removal unit. commissioning period for this unit and its O and M details.	Details of the Chrome Unit as per separate report attached.

33.	Spare Parts	Cost of spare parts supply for two years	We presume that cost of equipment to be quoted should include cost of its spare parts for two years as there is no separate schedule mentioned in price bid for the same. Kindly clarify.	Insert Item 1.1.42 in the Price Schedule for Preliminary and General: as Lumpsum Price
34.	Submission	Last Date or submission	<p>i) We request you to kindly extend the date of submission by 15 days from the current date or submission.</p> <p>ii) Request for an extension on the submission date by one month to 9<sup>th</sup> January 2017, due to limited time to study and adhere to requirement and design.</p> <p>iii) Is it possible to extend the date of submission?</p>	Bid Submission Deadline Extended by 7 days from 8 <sup>th</sup> December to 15 <sup>th</sup> December 2016
35.	Volume 1, Section II ITB 20.1	Bid Security	Being a Joint Client between EPZA and KLDC, clarify on which is the beneficiary for the Bid Security and address to be used.	Bid Security should be addressed to Export Processing Zones Authority
36.	Volume 1, Section III 2.4.2 Specific Experience	Specific Experience for Lead Partner in the JV	Lead Partner in the JV must comply by having specific experience in the SBR Technology. Since the SBR is not the bulk of the project can this be altered to allow at least one partner in a JV to have specific experience in SBR Technology.	See comments in 17 and 22 above

37.	Volume 1, Section III 2.4.2 Specific Experience	Specific Experience in SBR Technology	Is it possible to revise the capacity (10MLD) of the SBR plant under requirements? The technology has been installed in many parts of the world over but the capacity is usually less.	Plants with SBR technology with capacity over 50MLD have been installed in many parts of the world. Change of technology not allowed.
38.	Volume 3, BOQ	Excavation	Request for the typical cross sections for the sewage excavation. It is not clear in the BOQ how the related cubic meter will be calculated.	Sewer Profiles for confirmation of excavation quantities are provided. For other Structures, the hydraulic profiles are provided for the 2.5MLD and 10 MLD plants to estimate excavations. See also comment No. 11 above.
39.		Geotechnical investigation	Request for the Geotechnical investigation report to enable one to estimate the quantity of rock to be excavated.	See comment No. 11 above
40.	Volume 3, BOQ		Provide estimations in form of provisional sums to supplement the lump sum Bills of Quantities.	We herewith provide for Civil Works but only as a guide only. See Annex 1 to this Tender Clarifications No.1
41.	Volume 2, Section 5 Process Requirement	Chrome Recovery Unit	Will Effluent from the Chrome Recovery Unit be conveyed to the plant	Effluent from Chrome Recovery Unit will be discharged into the 2.5 MLD plant
42.	Volume 2, Section 5	Design Parameters	It is mentioned that: Topographical survey information, benchmarks, contour maps, geotechnical /soil investigations, and effluent receiving water body high flood level (HFL) are included with these bid documents and/or available from employer on request. Kindly provide the aforementioned documents.	For Survey Bench marks used to produce the Topo Survey Maps see Section 2.24 in the Technical Specifications. For Geotechnical estimations see comment No. 11 above. For HFL see Comment No. 1 above.

43.	Price Schedule 2, Reticulation System Works for 2.5 MLD	Pipeline Diameter	The quantities provided in the BOQ for the pipeline diameter length differs from the alignment takeoff quantities. In this scenario which document quantities shall prevail?	Contractor to confirm his major quantities from the Drawings.
44	More Guidelines on application of taxes			Bidders are referred to Clause 14 of the General Conditions of Contract on the application of taxes. Bidders are further encouraged to visit the website of the Kenya Revenue Authority on the applicable taxes including Withholding Tax on services.
45	Water Supply for Construction			Bidders are to make own arrangements for supply of water for construction, including abstracting from Athi River or use of boreholes available within the site vicinity

## 2. DETAILED EVALUATION CRITERIA OF BIDS

### 1. STAGED EVALUATION

The bids will be evaluated in accordance with the Instructions to Bidders (ITB) and details requested in Section III using a 2 staged sequence. The detailed evaluation will be as follows for Bidders to take note while preparing their bids.

#### a) **Substantial responsiveness**

- (i) Examination of bids and determination of responsiveness in accordance with ITB section E: Clauses 27-38.

This stage of the evaluation will be on a "pass" or "fail" basis. All bids which have passed this stage of the evaluation will proceed to the next stage. A matrix to evaluate the pass /fail criteria is appended below:

	<b>EVALUATION CRITERIA</b>	<b>Pass</b>	<b>Fail</b>
A	Review/update of conformity with all the prequalification criteria		
B	Completion of all forms, tables and schedules in accordance with the Bid Documents and in particular the following:		
B1	Bid Submission Form		
B2	Form ELI - 1.1 Information Form		
B3	Form ELI- 1.2 Information Form for each JV Party Subcontractor as		
B4	Power of Attorney		
86	Form FIN 3.1: Average Annual Construction Turnover		
B7	Form FIN CCC: Current Contract commitments/Work in Progress		
B9	Form CON 2: Historical Non-performance		
B8	Form FIN 3.1: Financial Situation		
B10	Form FIN 3.3 Financial Resources		
B11	Bid Security		
C	Completion of all other schedules (Section VIII)		
D	Bidders Site Inspection Certificate		
E	Bill of Quantities and Grand Summary		

#### b) **Assessment of the adequacy of the technical proposal**

- (i) Evaluation in accordance with the requirements of the Tender Documents and the detailed criteria contained in herein of this section (see below).

This stage of the evaluation will be on-a-points scored basis with a cut-off mark for each category of evaluation item.

All bids which have passed this stage of the evaluation will proceed to the next stage.

***c) Assessment of the financial submission***

- (i) Correction of errors in accordance with ITB CI 32.
- (ii) Conversion to single currency for comparison of bids in accordance with ITB CI 33
- (iii) Evaluation and comparison of bids in accordance with ITB CI 35.

Award will follow based on the above and in accordance with ITB CI 32 to 35 inclusive.

**2. IMPORTANT POINTS TO NOTE**

- a) The Employer reserves the right to waive minor deviations if in the opinion of the Employer they do not materially affect the capability of a Bidder to perform the Contract satisfactorily.
- b) Bidders should note that the information required to be inserted into the Bid Forms shall be comprehensive and detailed. Accordingly, and as the Bid Forms will form part of the Contract, any future use of the data on these forms shall be subject to the Employer's and Engineer's future review, acceptance or correction during the Time of Completion as and when any such data may be used for the purposes of the Contract.
- c) All forms contained in the Tender Documents must be fully and properly completed and all must be returned, as these will be reviewed exactly as submitted and errors or omissions will be counted against the Bidder.
- d) Any Bidder who is found to have intentionally submitted false or inaccurate statements /information shall be disqualified from the Bid process, and may also be disqualified from future projects of the Employer.
- e) Check of Unrealistic Rates
  - (i) If unrealistically low rates have been quoted by a Bidder on critical or very important items, the Bidder will be requested to demonstrate to the satisfaction of the Employer, how the work on the particular items can be performed within the quoted rates.
  - (ii) If the Employer considers that the explanation provided is unacceptable, and that a Bidder may fail to perform the work at the quoted rates, the Bid may be rejected.
  - (iii) If clarifications are acceptable to the Employer then the evaluation of his Bid will continue.
- f) Check of an Unbalanced Bid

- (i) Bids will be checked to ensure that the pricing therein is not "unbalanced". An unbalanced" Bid is one in which:
    - The unit prices for the work to be performed in the early part of the Contract are relatively high thereby requiring higher payments than justified by the value of work performed, or
    - Bidder considers that the quantity given in the Tender Documents for one or more work items are low and has quoted unduly high prices for these items.
  - (ii) If the Bid of a Bidder is seriously unbalanced in relation to the Employers cost estimate, the Employer may require the Bidder to provide clarification, including detailed price analysis, for any or all Items of the Bill of Quantities to demonstrate the consistency of those prices with the construction methods and schedule proposed.
  - (iii) After evaluation of the Bidder's clarification, the Employer may choose to reject the Bid and return the Bid Security or, alternatively, require that the amount of the Performance Security set forth in the Appendix to Bid be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the contract.
- g) Review of Other Financial Aspects
- i) A basic review will be undertaken on the following aspects to confirm whether they are generally reasonable according to the requirements of the Tender Documents:
    - Anticipated Cash Flow for the Works provided by the Bidder
    - Level of pricing of selected major pay items by reference to the breakdowns of unit rates provided by the Bidder.

### **3. DETAILED PROCEDURE FOR TECHNICAL PROPOSAL EVALUATION**

- a) The Technical Evaluation will consist of checking the technical aspects of the Bids to confirm whether they substantially conform to the requirements of the Tender Documents.
- b) The Bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in the ITB in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.
- c) In order to determine whether the Bid substantially conforms to the technical requirements of the Tender Documents, each of the Technical Evaluation Items listed below, will be checked and each will be evaluated on the basis of the criteria stated herein.
- d) To achieve a "Pass" at this stage, Bidders must achieve a total score for this stage of at least 60 points.

- e) Bidders must also achieve a score for each item of at least 50% of the available points.

Technical Evaluation Item		Available Points	Minimum Score
1	Method statement and organization	40.0	24.0
2	Proposed key personnel	15.0	9.0
3	Proposed equipment, plant and. materials	15.0	9.0
4	Basic program for the works	15.0	9.0
5	Environmental and social considerations	15.0	9.0
<b>Total</b>		<b>100.0</b>	<b>60.0</b>

### 3.1 Evaluation of method statement and organization

The evaluation of the method statement and organization proposed by the Bidder will be made according to the following Evaluation Sub-Items and points;

(Ref. Schedules Annex 3 of this Vol 1 of 3 of Tender Documents)

Technical Evaluation Sub-item		Available Points
1	Project Quality Plan	4.0
2	Mobilization	2.0
3	Progress Control	2.0
4	Organization charts and manning schedule	2.0
5	Plan to ensure minimal disruption to the operation of the existing Wastewater Treatment Works at Kinanie	2.0
<b>6</b>	<b>Detailed method statements for the sequencing and execution of the works as per the following breakdown:</b>	
6a	<i>Contractor's camp and installations, temporary works and services</i>	2.0
6b	<i>Control while executing delicate excavations on pipelines</i>	2.0
6c	<i>Works at 10MLD SCETP</i>	14
6d	<i>Works at 2.5MLD PCETP</i>	8
6e	<i>Preparation of access roads to sites</i>	2
<b>Maximum Score</b>		<b>40.0</b>

### 3.2 Evaluation of proposed key personnel

The evaluation of proposed key personnel proposed by the Bidder as instructed In the Tender Documents will be made according to the following Evaluation Sub-Items and points:

(Ref. Schedule 2.5 of Section III of the Volume of Tender Documents)



<b>Technical Evaluation Sub-Item</b>		<b>Available Points</b>
1	Contract Manager,	2.0
2	Design Manager	2.0
3	Site Manager,	2.0
4	Site Measurements Engineer / Quantity Surveyor	1.0
5	Site Engineering Surveyor	0.5
6	Health and Safety Officer,	0.5
7	Process Engineer	1.0
8	Mechanical Engineer	1.0
9	Hydraulic Engineer:	1.0
10	Electrical Engineer	1.0
11	Instrumentation Engineer	1.0
12	Plant Manager	1.0
13	Overall suitability of proposed organo-gram for site and head office and proportion of local staff	1.0
<b>Maximum Score</b>		<b>15.0</b>

- a) It is hereby emphasized that all the management and supervisory staff of the Bidder must be fluent in spoken and written English in order to ensure good control of the works site. Provision of qualified interpreters shall not constitute a sufficient alternative.
- b) Verification of language capability of the nominated key personnel could be required by the Employer during the Bid evaluation.
- c) The nominated key personnel should be available for the works. No replacement will be authorized unless with staff with equivalent or better CV's.

### **3.3 Evaluation of proposed equipment, plant and materials.**

The evaluation of proposed equipment, plant and materials proposed by the Bidder as instructed in the Tender Documents will be made according to this following Evaluation Sub--Items and points;

(Ref. Section 2.5 Section III, Tender Documents Vol. 1

<b>Technical Evaluation Sub-Item.</b>		<b>Available Points</b>
1	Type, capacity and number of proposed equipment and suitability for the works.	7.0

2	'Average age and proof of good condition of proposed equipment	2.0
3	Proof of availability and timely mobilization of the proposed equipment	1.5
4	Site plan installation plan, equipment mobilization plan, materials procurement program	1.5
5	Procurement and sourcing of materials for, concrete, earthworks, and all the electro-mechanical equipment, etc	3.0
<b>Maximum Score</b>		<b>15.0</b>

### 3.4 Evaluation of basic program of the works

The evaluation of the basic program of the works proposed by the Bidder as Instructed in the Tender Documents will be made according to the following Evaluation Sub-Items and points: (Ref. Schedule 4 of Annex 3 of this Vol 1 of 3 of Tender Documents)

<b>Technical Evaluation Sub- Item</b>		<b>Available Points</b>
1	General presentation, conformity with or improvement of specified Construction of period	1.5
2	Coherence on the sequence of activities divided into required sections/stages, consideration of program /Works constraints	4.5
3	Feasible outputs and manageable targets to achieve the deadlines	2.5
4	Mobilization and preparatory works(s)	1.5
5	Provisions for and management of rainy seasons and adverse working conditions	2.0
6	Critical Path diagram showing inter-relationships between critical events	3.0
<b>Maximum Score</b>		<b>15.0</b>

### 3.5 Evaluation of environmental and social considerations

The evaluation of the environmental and social considerations proposed by the Bidder will be made according to the following Evaluation Sub-Items and points:

(Ref. Schedule 9 of Annex 3 of this Volume 1 of 3 of Tender Documents)

<b>Technical Evaluation Sub-Item</b>		<b>Available Points</b>
1	Preliminary environmental management plan	4.5
2	Project area sensitivity mapping	1.5
3	Occupational health and safety plan	2.0
4	Security of the existing and proposed works	2.5

5	Statement of corporate social responsibility	2.5
6	Social plan for site staff and local population and transfer of skills to local staff from the borrower's country	2.0
<b>Maximum Score</b>		<b>15.0</b>

