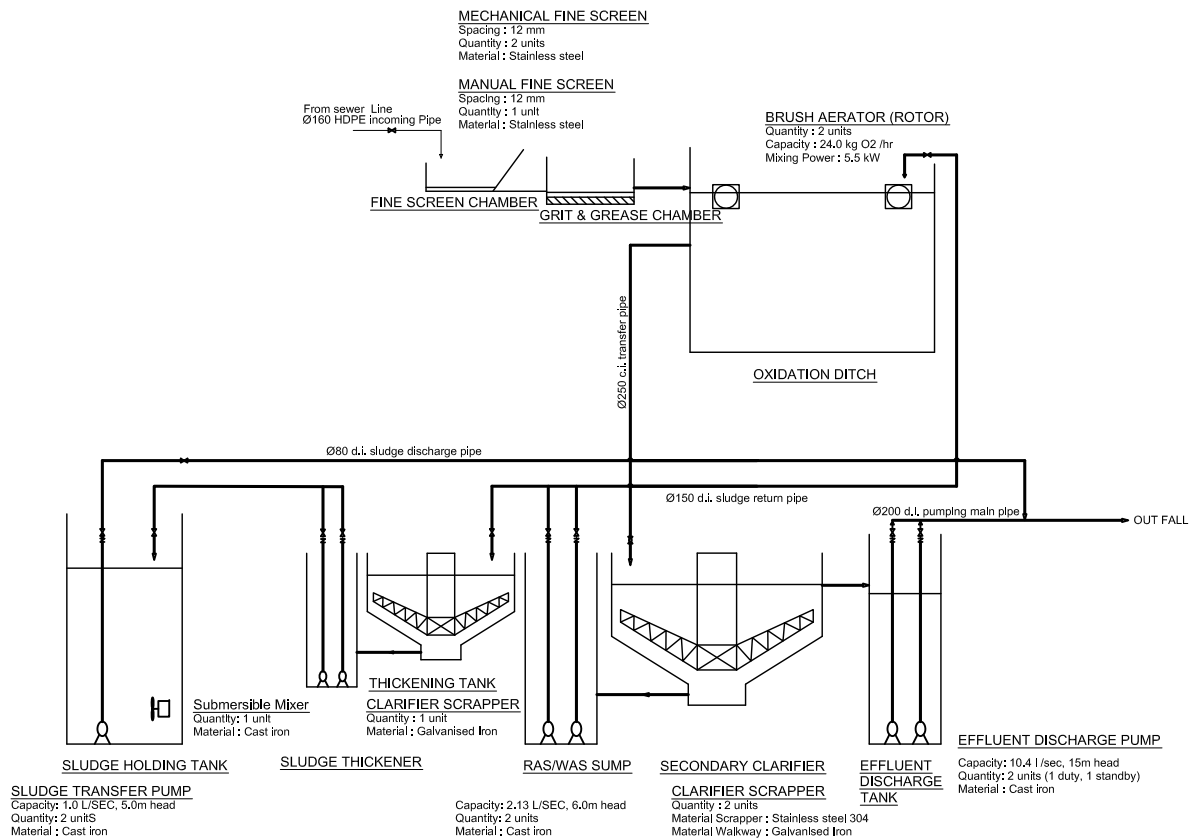


OXIDATION DITCH SYSTEM
SCHEMATIC FLOW DIAGRAM AND MASS BALANCE



PROCESS & INSTRUMENTATION DIAGRAM (P & ID)

NOTES:-

- ALL DIMENSIONS ARE IN METERS.
- SITE LEVELS ARE TO BE COORDINATED BY THE CONTRACTOR.
- PUMPED LINES/ PRESSURE LINES TO USE HDPE PIPES. OTHER FLOW LINES TO USE UPVC PIPES.
- CONTRACTOR TO PREPARE DETAILED DRAWING AND OBTAIN APPROVAL OF MEEW BEFORE START OF CONSTRUCTION.
- LAYOUT OF COMPACT UNIT WASTE WATER TREATMENT PLANT FOR KOLAMAAFUSHI ISLAND AVERAGE FLOW $Q = 230 \text{ m}^3/\text{day}$ EXPANDABLE UPTO $400 \text{ m}^3/\text{day}$.
- SLUDGE STABILIZED, DIGESTED AND DISINFECTED FROM TANK CAN BE PERIODICALLY (ONCE MONTHLY) PUMPED THROUGH EFFLUENT OCEAN DISPOSAL PIPE LINE.
- IF RAW SEWAGE CAN BE PUMPED DIRECTLY TO SPLITTER BOX FROM LIFTING STATIONS, UNIT (A) COLLECTION WELL CAN BE AVOIDED. (AS PER MANUFACTURES SPEC.)
- ALL SITE LEVELS TO BE COORDINATED BY THE CONTRACTOR AND WRITTEN APPROVED FROM MEEW TO BE OBTAINED BEFORE START OF WORK.
- ALL DIMENSIONS ARE INDICATIVE, CONTRACTOR MAY PROPOSE CWWP TO FIT WITHIN THE PLOT BOUNDARY.
- THE SIZES FOR UNITS A & B, C & D ARE INDICATIVE ONLY
- THE PIPE DIMENSIONS REPRESENT IN OUTSIDE DIAMETER(O.D).

LEGEND:-

- (A) COLLECTION WELL WITH SCREEN, GRIT & GREASE REMOVAL FACILITY
- (B) COMPACT WASTE WATER TREATMENT UNIT (INCLUDES AERATION AND SETTLING)
- (C) SLUDGE TANK
- (D) EFFLUENT TANK WITH EFFLUENT DISPOSAL PUMP
- (E) SEA OUTFALL
- (F) 1.2m PAVEMENT ALL ACROSS THE TREATMENT FACILITY.
- (G) 1m HIGH LANDSCAPING (BUSH)
- (H) STANDARD MALDIVES PALM TREE.

REFERENCE DRAWINGS

SL.No	DRAWING No.	DESCRIPTION

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPRD.
0	15-09-15	DETAILED DESIGN SUBMISSION	JP	SS	MA

REVISION

CLIENT	MINISTRY OF ENVIRONMENT & ENERGY REPUBLIC OF MALDIVES
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CONSULTANT:	استشاري مكتب الحبشي للاستشارات الهندسية Al-Habshi Consultants Office
	Tel : 2430103 / 2433131 - Fax : 2431136 P.O.Box 27164 Safat 13132 - Kuwait

PROJECT:	Provision of Water Supply Facilities in 04 islands and Sewerage Facilities in 05 islands - GA.Kolamaafushi Island - Republic of Maldives
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DRAWING TITLE:	PID OF COMPACT SEWERAGE TREATMENT UNIT GA.KOLAMAAFUSHI ISLAND
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DESIGNED	DRAWN	CHECKED	APPROVED	SCALE	DATE
SK	JP	SS	MA	N.T.S	15-09-15
PROJECT No.	SHEET No.	DRAWING No.			
K-619	1 OF 1	KO-SW-112			
REV. No.	0				