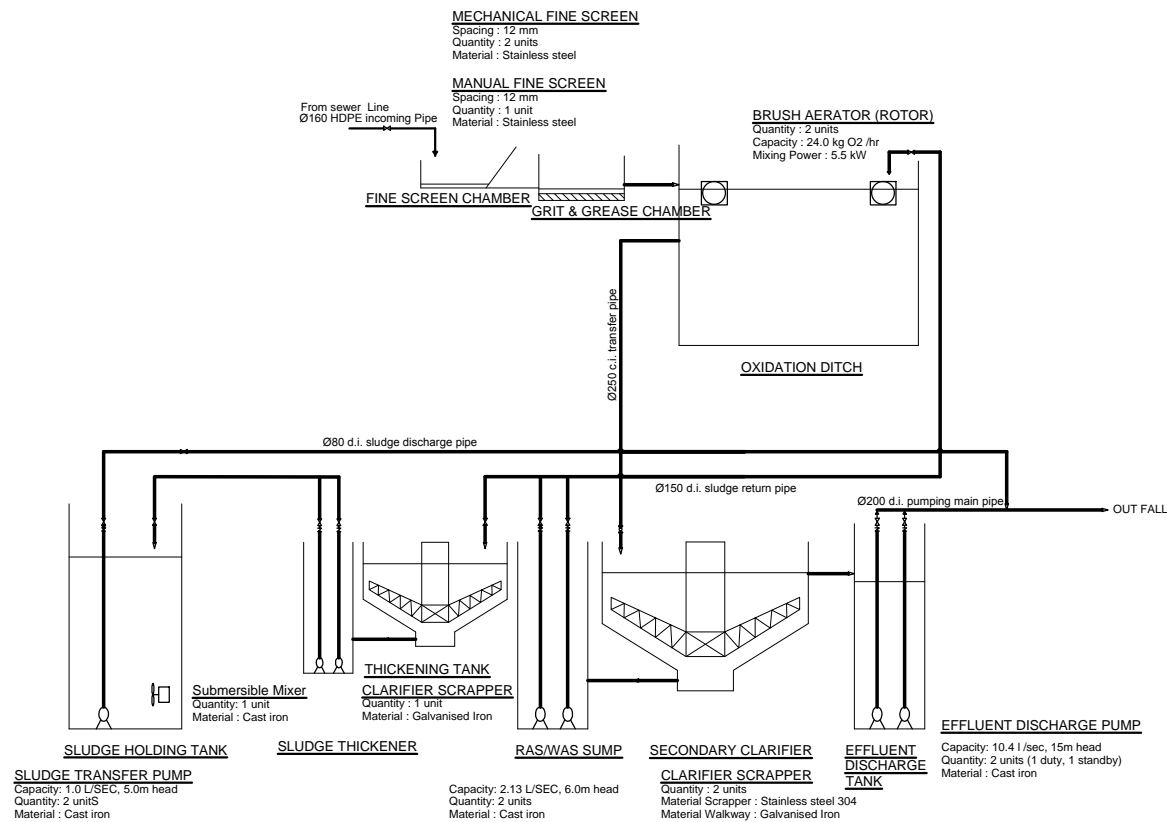
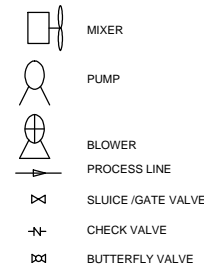


**OXIDATION DITCH SYSTEM  
SCHEMATIC FLOW DIAGRAM AND MASS BALANCE**



**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 GADHDHOO ISLAND AVERAGE FLOW  
 $Q_{av} = 410 \text{ m}^3/\text{day}$  EXPANDABLE UPTO  $700 \text{ m}^3/\text{day}$ .
- SLUDGE STABILIZED, DIGESTED AND DISINFECTED FROM TANK (A) CAN BE PERIODICALLY (ONCE MONTHLY) PUMPED THROUGH EFFLUENT OCEAN DISPOSAL PIPE LINE.
- IF RAW SEWAGE CAN BE PUMPED DIRECTLY TO SPUTTER 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 CWWIP 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:-**

- COLLECTION WELL WITH SCREEN, GRIT & GREASE REMOVAL FACILITY
- COMPACT WASTE WATER TREATMENT UNIT (INCLUDES AERATION AND SETTLING)
- SLUDGE TANK
- EFFLUENT TANK WITH EFFLUENT DISPOSAL PUMP
- SEA OUTFALL
- 1.2m PAVEMENT ALL ACROSS THE TREATMENT FACILITY.
- 1m HIGH LANDSCAPING (BUSH)
- 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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**PROJECT:**  
 Provision of Water Supply Facilities in 04 islands and Sewerage Facilities in 05 islands - GDH.Gadhdhoo Island - Republic of Maldives

**DRAWING TITLE:**  
**PID OF COMPACT SEWERAGE TREATMENT UNIT-GDH.GADHDHOO ISLAND**

DESIGNED	DRAWN	CHECKED	APPROVED	SCALE	DATE
SK	JP	SS	MA	N.T.S	15-09-15

PROJECT No. SHEET No. K-619 1 OF 1  
 DRAWING No. GG-SW-116