



Pump Schedule

REF	SERVICE	REF	SIZE	DUTY	ELECTRICAL DATA	
P1	BOILER PRIMARY CCT	P1 / P2	100mm	14 l/s @ 120 kPa	2.5 kW motors 3 Phase 415 V	
P2	AHU CT CCT.	P3 / P4	80mm	9 l/s @ 160 kPa	1.5 kW motors 3 Phase 415 V	
Р3	VALET CT CCT.	P5 / P6	65mm	5 l/s @ 160 kPa	0.8 kW motors 3 Phase 240 V	

Notes / Legend

SYMBOL ON PLANT DENOTES ITEMS OF EQUIPMENT TO BE PURCHASED DIRECT FROM HOVAL BY CLIENT.

DENOTED ITEMS OF EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY HOVAL Ltd.

SAME ITEMS TO BE PIPED, WIRED AND COMMISSIONED BY MECHANICAL CONTRACTOR.

- 2.0 FLOOR GULLY / DRAIN TO BE PROVIDED BY AT DESIGN / BUILDER SUITABLE FOR CONDENSATE DRAIN AND GENERAL PLANTROOM DRAINAGE
- 3.0 THE CONTRACTOR SHALL SUBMIT FULLY DEVELOPED WORKING DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION
- 4.0 SUPPLY & INSTALL SLEEVES AND FIRE COLLARS WHERE PIPEWORK OR SERVICE PASS THROUG WALLS, SLABS & FIRE BARRIERS ETC

Controls Specification

- 1.0 THE CONTRACTOR SHALL EMPLOY A CONTROLS SPECIALIST TO DESIGN, FABRICATE INSTALL, SET TO WORK AND COMMISSION THE AUTOMATIC CONTROSL TO OPERATE THE WHOLE OF THE WORKS.
 - INCORPORATE TH EFOLLOWING
 - .01 INVERTER DRIVEN PUMPS
 - .02 TREND SERIES 3 BMS SYSTEM WITH 1Q VIEW.
 - .03 LINK TO HOVAL STU BOILER CONTRO PANEL
 - .04 LINK TO FIRE ALARM PANEL
 - .05 INCORPORATE LINEK TO ADJACENT MITSUBISHI ELEXTRIC Ltd
 - .06 AG150 CONTROLLER FOR OFFICES AIR CONDITONING
- .06 PROVIDE PANEL DRAWINGS FOR APPROVAL PRIOR TO
- MANUFACTURER

Bio-Mass Plantroom

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LEGEND STANDARD LIST OF ABBREVIATIONS

ISOLATING VALVE LOCKSHIELD VALVE

GAS COCK DRAIN COCK AIR VENT

COMMISSIONING STATION DOUBLE REG. VALVE

ORIFICE PLATE MOTORISED CONTROL VAL SOLENOID VALVE

DOUBLE CHECK VALVE PIPELINE STRAINER PRESSURE RED. VALV

PRESSURE GAUGE PIPELINE REDUCER

NOTES

1.0 DRAIN COCKS AND AIR VENTS ON PUMPS 2.0 PUMPS ON MASS CONCRETE BASES

TEMPERATURE GAUGE

NOTES:

1.00 THE CONTRACTOR SHALL VISIT SITE DURING TENDER

2.00 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CO-ORDINATION, THE DESIGN OF ALL BRACKETS & SUPPORT WORK, AND BUILDERSWORK DETAILS

.00 THE MECHANICAL CONTRACTOR SHALL SET TO WORK THE WHOLE OF THE INSTALLATIONS – INCLUDING CONTROLS AND CONTROLS WIRING - AND FULLY COMMISSION AND BALANCE THE SYSTEMS, IN ACCORDANCE WITH ALL INDUSTRY STANDARDS, BUILDING CONTROL REQUIREMENTS, WAYSIDE REQUIREMENTS AND GOOD PRACTICE

.00 INSTALL THE WORKS IN ACCORDANCE WITH ALL STANDARD INDUSTRY HEALTH & SAFETY & BUILDING

AND METHOD STATEMENTS TO CS2 FOR ALL ELEMENTS

Note: Contractors' Coordination Responsibility THE INFORMATION ON THIS DRAWING IS FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL PRODUCE DIMENSIONED AND FULL

COORDINATED WORKING DRAWINGS FOR INSTALLATION FOR APPROVAL PRIOR TO PROCUREMENT . THE CONTRACTOR SHALL COORDINATE MECHANICAL, ELECTRICAL, STRUCTURAI ARCHITECTURAL ELEMENTS OF THE PROJECT, AS WELL AS COORDINATE THE CEILING LAYOUT AND INSTALLATION.

Important Note:

IMPORTANT NOTE: READ ALL NOTES, SCHEDULES AND SPART OF THE SPECIFICATION, WHICH MAY NOT BE REPEATED

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ev	Description	Date			
T	TENDER ISSUE	-			
c	CONTRACT ISSUE	-			

WAYSIDE GROUP

CS2 Ltd

project architect

MDG

BMW & MINI NORTHFIELD DRIVE. NORTHFIELD, MILTON KEYNES



MK Consulting Engineers Ltd

Building Services Engineering Design & Draughting T 01908 503881 F 01908 503881 E mkcad99 @ aol.com

Drawing Title MECHÂNICAL SERVICES **BIO-MASS PLANTROOM** PLANT AND PIPEWORK LAYOUT

Scale 1:25 @ A0

Drawing Number MK/600/HTG 02

CONTRACT ISSUE

C1