



LEGEND FOR VALVE/INSTRUMENTATION/SUBSYSTEMS		NOTES-1
		<ol style="list-style-type: none"> 1) ALL SS VALVES RATING 150 CLASS, UNLESS SPECIFIED. 2) INSULATION TYPE - ELASTOMERIC NITRILE FOAM. 3) ABOVE 50 NB SS ENVI PRES & FITTINGS. 4) 50 NB & BELOW, SS STAINLESS PRES & FITTINGS. 5) TYPE OF CONNECTION (FLANGE / WELDED / BRANDED HOSE) (A-B-C-D-E-F-G-H-I-J-K-L-M-N-O-P-Q-R-S-T-U-V-W-X-Y-Z-AA-AB-AC-AD-AE-AF-AH-AI-AJ-AL-AM-AN-AO-AP-AQ-AR-AS-AT-AU-AV-AW-AX-AY-AZ-BA-BB-BC-BD-BE-BF-BH-BI-BJ-BL-BM-BN-BO-BP-BQ-BR-BT-BU-BV-BW-BX-BY-BZ-CA-CB-CC-CD-CE-CF-CH-CI-CJ-CL-CM-CN-CO-CP-CQ-CR-CS-CT-CU-CV-CW-CX-CY-CZ-DA-DB-DC-DD-DE-DF-DH-DI-DJ-DL-DM-DN-DO-DP-DQ-DR-DT-DU-DV-DW-DX-DY-DZ-EA-EB-EC-ED-EE-EF-EH-EI-EJ-EL-EM-EN-EO-EP-EQ-ER-ES-ET-EU-EV-EW-EX-EY-EZ-FA-FB-FC-FD-FE-FH-FI-FJ-FL-FM-FN-FO-FP-FQ-FR-FT-FU-FV-FW-FX-FY-FZ-GA-GB-GC-GD-GE-GH-GI-GJ-GL-GM-GN-GO-GP-GQ-GR-GT-GU-GV-GW-GX-GY-GZ-HA-HB-HC-HD-HE-HH-HI-HJ-HL-HM-HN-HO-HP-HQ-HR-HT-HU-HV-HW-HX-HY-HZ-IA-IB-IC-ID-IE-IH-II-IJ-IL-IM-IN-IO-IP-IQ-IR-IS-IT-IU-IV-IW-IX-IY-IZ-JA-JB-JC-JD-JE-JH-JI-JJ-JL-JM-JN-JO-JP-JQ-JR-JS-JT-JU-JV-JW-JX-JY-JZ-KA-KB-KC-KD-KE-KH-KI-KJ-KL-KM-KN-KO-KP-KQ-KR-KS-KT-KU-KV-KW-KX-KY-KZ-LA-LB-LC-LD-LE-LH-LI-LJ-LL-LM-LN-LO-LP-LQ-LR-LS-LT-LU-LV-LW-LX-LY-LZ-MA-MB-MC-MD-ME-MH-MI-MJ-ML-MN-MO-MP-MQ-MR-MT-MU-MV-MW-MX-MY-MZ-NA-NB-NC-ND-NE-NH-NI-NJ-NL-NM-NO-NP-NQ-NR-NT-NU-NV-NW-NX-NY-NZ-OA-OB-OC-OD-OE-OH-OI-OJ-OL-OM-ON-OO-OP-OQ-OR-OS-OT-OU-OV-OW-OX-OY-OZ-PA-PB-PC-PD-PE-PH-PI-PJ-PL-PM-PN-PO-PP-PQ-PR-PT-PU-PV-PW-PX-PY-PZ-QA-QB-QC-QD-QE-QH-QI-QJ-QL-QM-QN-QO-QP-QQ-QR-QS-QT-QU-QV-QW-QX-QY-QZ-RA-RB-RC-RD-RE-RH-RI-RJ-RL-RM-RN-RO-RP-RQ-RR-RT-RU-RV-RW-RX-RY-RZ-SA-SB-SC-SD-SE-SH-SI-SJ-SL-SM-SN-SO-SP-SQ-SR-SU-SV-SW-SX-SY-SZ-TA-TB-TC-TD-TE-TH-TI-TJ-TL-TM-TN-TO-TP-TQ-TR-TS-TT-TU-TV-TW-TX-TY-TZ-UA-UB-UC-UD-UE-UH-UI-UJ-UL-UM-UN-UO-UP-UQ-UR-US-UT-UU-UV-UY-UZ-VA-VB-VC-VD-VE-VH-VI-VJ-VL-VM-VN-VO-VP-VQ-VR-VS-VT-VU-VV-VW-VX-VY-VZ-WA-WB-WC-WD-WE-WH-WI-WJ-WL-WM-WN-WO-WP-WQ-WR-WS-WT-WU-WV-WX-WY-WZ-XA-XB-XC-XD-XE-XH-XI-XJ-XL-XM-XN-XO-XP-XQ-XR-XT-XU-XV-XW-XX-XY-XZ-YA-YB-YC-YD-YE-YH-YI-YJ-YL-YM-YN-YO-YP-YQ-YR-YT-YU-YV-YW-YX-YY-YZ-ZA-ZB-ZC-ZD-ZE-ZH-ZI-ZJ-ZL-ZM-ZN-ZO-ZP-ZQ-ZR-ZS-ZT-ZU-ZV-ZW-ZX-ZY-ZZ-AA-AB-AC-AD-AE-AF-AH-AI-AJ-AL-AM-AN-AO-AP-AQ-AR-AS-AT-AU-AV-AW-AX-AY-AZ-BA-BB-BC-BD-BE-BF-BH-BI-BJ-BL-BM-BN-BO-BP-BQ-BR-BT-BU-BV-BW-BX-BY-BZ-CA-CB-CC-CD-CE-CF-CH-CI-CJ-CL-CM-CN-CO-CP-CQ-CR-CS-CT-CU-CV-CW-CX-CY-CZ-DA-DB-DC-DD-DE-DF-DH-DI-DJ-DL-DM-DN-DO-DP-DQ-DR-DT-DU-DV-DW-DX-DY-DZ-EA-EB-EC-ED-EE-EF-EH-EI-EJ-EL-EM-EN-EO-EP-EQ-ER-ES-ET-EU-EV-EW-EX-EY-EZ-FA-FB-FC-FD-FE-FH-FI-FJ-FL-FM-FN-FO-FP-FQ-FR-FT-FU-FV-FW-FX-FY-FZ-GA-GB-GC-GD-GE-GH-GI-GJ-GL-GM-GN-GO-GP-GQ-GR-GT-GU-GV-GW-GX-GY-GZ-HA-HB-HC-HD-HE-HH-HI-HJ-HL-HM-HN-HO-HP-HQ-HR-HT-HU-HV-HW-HX-HY-HZ-IA-IB-IC-ID-IE-IH-II-IJ-IL-IM-IN-IO-IP-IQ-IR-IS-IT-IU-IV-IW-IX-IY-IZ-JA-JB-JC-JD-JE-JH-JI-JJ-JL-JM-JN-JO-JP-JQ-JR-JS-JT-JU-JV-JW-JX-JY-JZ-KA-KB-KC-KD-KE-KH-KI-KJ-KL-KM-KN-KO-KP-KQ-KR-KS-KT-KU-KV-KW-KX-KY-KZ-LA-LB-LC-LD-LE-LH-LI-LJ-LL-LM-LN-LO-LP-LQ-LR-LS-LT-LU-LV-LW-LX-LY-LZ-MA-MB-MC-MD-ME-MH-MI-MJ-ML-MN-MO-MP-MQ-MR-MT-MU-MV-MW-MX-MY-MZ-NA-NB-NC-ND-NE-NH-NI-NJ-NL-NM-NO-NP-NQ-NR-NT-NU-NV-NW-NX-NY-NZ-OA-OB-OC-OD-OE-OH-OI-OJ-OL-OM-ON-OO-OP-OQ-OR-OS-OT-OU-OV-OW-OX-OY-OZ-PA-PB-PC-PD-PE-PH-PI-PJ-PL-PM-PN-PO-PP-PQ-PR-PT-PU-PV-PW-PX-PY-PZ-QA-QB-QC-QD-QE-QH-QI-QJ-QL-QM-QN-QO-QP-QQ-QR-QS-QT-QU-QV-QW-QX-QY-QZ-RA-RB-RC-RD-RE-RH-RI-RJ-RL-RM-RN-RO-RP-RQ-RR-RT-RU-RV-RW-RX-RY-RZ-SA-SB-SC-SD-SE-SH-SI-SJ-SL-SM-SN-SO-SP-SQ-SR-SU-SV-SW-SX-SY-SZ-TA-TB-TC-TD-TE-TH-TI-TJ-TL-TM-TN-TO-TP-TQ-TR-TS-TT-TU-TV-TW-TX-TY-TZ-UA-UB-UC-UD-UE-UH-UI-UJ-UL-UM-UN-UO-UP-UQ-UR-US-UT-UU-UV-UY-UZ-VA-VB-VC-VD-VE-VH-VI-VJ-VL-VM-VN-VO-VP-VQ-VR-VS-VT-VU-VV-VW-VX-VY-VZ-WA-WB-WC-WD-WE-WH-WI-WJ-WL-WM-WN-WO-WP-WQ-WR-WS-WT-WU-WV-WX-WY-WZ-XA-XB-XC-XD-XE-XH-XI-XJ-XL-XM-XN-XO-XP-XQ-XR-XT-XU-XV-XW-XX-XY-XZ-YA-YB-YC-YD-YE-YH-YI-YJ-YL-YM-YN-YO-YP-YQ-YR-YT-YU-YV-YW-YX-YY-YZ-ZA-ZB-ZC-ZD-ZE-ZH-ZI-ZJ-ZL-ZM-ZN-ZO-ZP-ZQ-ZR-ZS-ZT-ZU-ZV-ZW-ZX-ZY-ZZ
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NOTES-2

- 1) DRAIN LINE FROM SUPPLY LINE TO 25 NB BALL VALVES SHOULD BE SS 316. AFTER VALVE IT WILL BE PVC. ALL DRAIN LINES SHOULD BE CONNECTED TO 40 NB PVC-RINGS DRAIN HEADER.
- 2) FOR DRAIN OUT THE SUBSYSTEM, SUPPLY & RETURN VALVES WILL BE CLOSED AND DRAIN VALVE WILL BE OPENED. THEREAFTER, SOLENOID VALVE FOR COMPRESSED AIR SUPPLY WILL BE OPENED TO REMOVE THE TRAPPED WATER IN THE SUB-SYSTEM.
- 3) FLOW BALANCING VALVES WILL BE MANUALLY OPERATED. HAND-WHEEL, DRIVEN TYPE, FLOW VARIATION (± 20%) OF DESIRED FLOW.
- 4) OIL AND MOISTURE FREE COMPRESSED AIR WILL BE PROVIDED BY IPA FOR FLUSHING THE TRAPPED WATER IN THE SYSTEM.
- 5) WATER VELOCITY IN THE MAIN PIPE LINE: MAINTAINED LESS THAN OR EQUAL TO 2.5 M/S.
- 6) THE FLOW METER (TRANSMITTER TYPE) WILL GIVE LINEAR OUTPUT OF 4-20 mA, LEAST COUNT 1 LPM.
- 7) PRESSURE REDUCING VALVE SHOULD KEEP THE DOWN PRESSURE AS PER THE SET POINT, RESOLUTION BEING 0.2 BAR.
- 8) AIR PURGING TO BE CARRIED OUT BEFORE START OF THE SYSTEM.
- 9) GASKET MATERIAL WILL BE TEFLON.
- 10) PIPES HEADER SHOULD HAVE DRAIN POINTS AND AIR PURGE POINTS AT ALL BOTTOM AND TOP POINT OF PIPES RESPECTIVELY.

MATERIAL		SCALE						DRG NO SS7-1/MS/NH-REVISED/22		FIRST USE MODEL	
APPRO		DATE OF RELEASE 15.01.2015		REV. 0 1 1 2		ALL DIMENSIONS IN mm		SHEET NO.		SHEET 1 OF 1	
CHD		DATE OF PRINT		TITLE		REVISIED P & I DIAGRAM OF WATER DISTRIBUTION FOR NH SYSTEM		FINISHED WEIGHT Kg/gmm		FINISHED WEIGHT Kg/gmm	
S.N. SHARMA		FINISHED WEIGHT Kg/gmm		FINISHED WEIGHT Kg/gmm		FINISHED WEIGHT Kg/gmm		FINISHED WEIGHT Kg/gmm		FINISHED WEIGHT Kg/gmm	