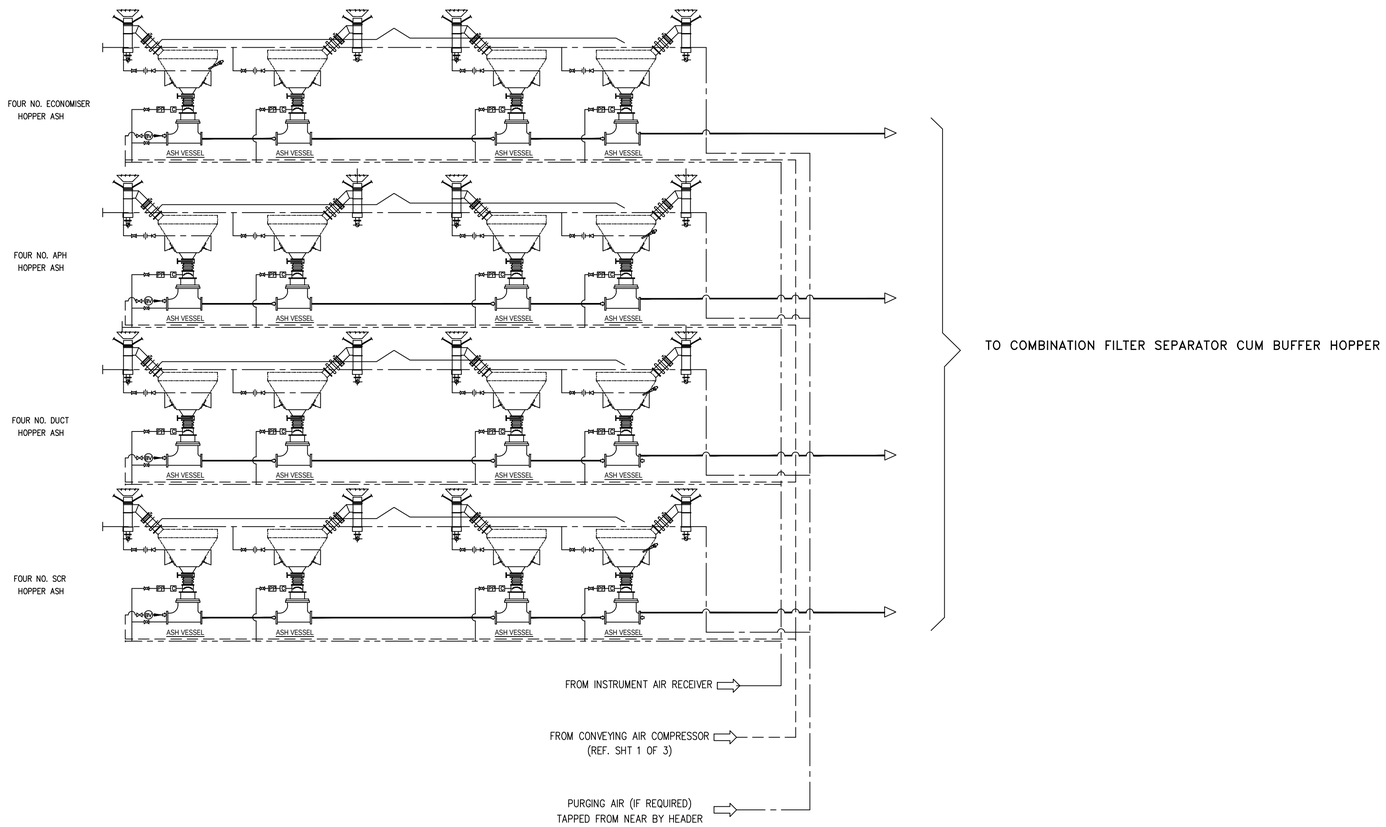

LEGEND

FLY ASH LINE	FLUIDISING PAD
BOTTOM ASH LINE	ORIFICE PLATE
FLUIDISING AIR LINE	HOPPER ADAPTER
INSTRUMENT AIR LINE	REDUCER
H.P. ASH WATER LINE	ENLARGER
L.P. ASH WATER LINE	VACUUM TRANSMITTER (VT)
SEAL WATER LINE	VACUUM INDICATOR (VI)
COOLING WATER LINE	VACUUM SWITCH (VS)
RETURN WATER LINE	TEMPERATURE INDICATOR (TI)
CONVEYING AIR LINE	TEMPERATURE SWITCH (TS)
AIR INTAKE VALVE	PRESSURE REGULATOR (PR)
ASH INTAKE VALVE	PRESSURE INDICATOR (PI)
ASH INTAKE VALVE WITH DIFFUSER ARRANGEMENT	PRESSURE SWITCH (PS)
TOTALLY ENCLOSED ROTARY SLIDE GATE VALVE	DIAPHRAGM OPERATED PRESSURE INDICATOR (PI)
KNIFE GATE VALVE CYLINDER OPERATED	FLOW GAUGE (FG)
KNIFE GATE VALVE MANUALLY OPERATED	LEVEL INDICATOR (LI)
BUTTERFLY VALVE CYLINDER OPERATED	LEVEL SWITCH (LS)
BUTTERFLY VALVE MANUALLY OPERATED	Y-STRAINER
2-WAY SOLINOID OPERATED VALVE	JETTING NOZZLE
4-WAY SOLINOID OPERATED VALVE	2-WAY AIR PILOT OPERATED VALVE
3-WAY SOLINOID OPERATED VALVE	SWING DISC VALVE
PLUG VALVE CYLINDER OPERATED	FLEXIBLE HOSE
PLUG VALVE	MANUAL ISOLATION VALVE
PLUG VALVE NORMALLY CLOSED	EXPANSION JOINT
GATE VALVE	DUST SENSOR (DS)
GATE VALVE NORMALLY CLOSED	LIMIT SWITCH
GLOBE VALVE	FLOW CONTROL VALVE
GLOBE VALVE NORMALLY CLOSED	REMOTE OPERATED SWING DISC VALVE
NIDDLE VALVE	FLOW TRANSMITTER (FT)
PRESSURE RELIEF VALVE	DIAPHRAGM OPERATED PRESSURE SWITCH (PS)
CHECK VALVE	LEVEL TRANSMITTER (LT)
AIR HATER (H)	SPEED CHECK VALVE (SCV)
AIR BLEED CONNECTION	QUICK EXHAUST VALVE (QEV)
THREE WAY GAUGE COCK	PRESSURE TRANSMITTER (PT)
AUTO DRAIN TRAP (T)	DIFFERENTIAL PRESSURE SWITCH (DPS)
BALL VALVE	DIFFERENTIAL PRESSURE GAUGE (DPG)
BALL VALVE CYLINDER OPERATED	MOTOR (M)
PR. REGULATOR CUM MOISTURE TRAP	FLOW SWITCH (FS)
BLOW VALVE (BV)	VACUUM BREAKER (VB)
SWITCH VALVE	PNEUMATIC PANEL (PP)

NOTE:

1. ASH HANDLING SCHEME IS SHOWN HERE FOR ONLY UNIT #4.
2. ALL INSTRUMENTS AND VALVES SHOWN IN FLOW DIAGRAM ARE INDICATIVE ONLY. AIR LINE VALVES SHALL BE BALL TYPE (PREFERABLE).

FOR TENDER PURPOSE ONLY

OWNER	GMR KAMALANGA ENERGY LIMITED
PROJECT	1 X 350 MW KAMALANGA THERMAL POWER PROJECT
TITLE	FLOW DIAGRAM FOR FLY ASH HANDLING SYSTEM (SINGLE STAGE) (4TH UNIT)

DEVELOPMENT CONSULTANTS PVT LTD.
CONSULTING ENGINEERS
KOLKATA • MUMBAI • CHENNAI • NEW DELHI

PREPARED	SC	JOB NO.	24A11
CHECKED	SP	SCALE	NTS
APPROVED	SKC	DATE	05.08.2025
DWG. NO.	24A11-BOP-DWG-M-0002	REV 2	SHEET 2 OF 3

REV	DATE	PREPD	CHECKED	NATURE OF REVISION & DESCRIPTION
2	25.05.26	SN	SP	
1	11.05.26	SN	SP	

APPVD | MECH | INST | ELEC | C&S | ARCH — REVIEWED

RELEASE STATUS	DATE	SIGNATURE
PRELIMINARY		
TENDER PURPOSE ONLY		
FOR APPROVAL		
FOR CONSTRUCTION		
REVIEWED: ARCHITECTURAL		
REVIEWED: CIVIL & STRUCTURAL		
REVIEWED: ELECTRICAL		
REVIEWED: INSTRUMENTATION		
REVIEWED: MECHANICAL		

FILE LOCATION: C:\Users\Administrator\Desktop\POWER\24A11\24A11-BOP-DWG-M-0002_REV-2_SHT-2 of 3.dwg
PLOT DATE: 25 May 2026, 12:25 PM

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