





- I. MATERIAL OF SEAL USED IN MATERIAL HANDLING VALVE SHALL BE SUITABLE FOR CONTINUOUS OPERATING TEMPERATURE AND ALSO SUITABLE FOR OCCASIONAL EXPOSURE TO MAXIMUM TEMPERATURE. BIDDER SHALL ALSO PROVIDE SUITABLE ARRANGEMENT TO TAKE CARE OF HOT AIR COMING OUT OF BUFFER HOPPER. BAG FILTERS SHALL BE SELECTED SUITABLE FOR CONTINUOUS EXPOSURE OF TEMPERATURE OF 175°C MIN. AND MOMENTARY CONTACT 195°C AT BUFFER HOPPERS/ASH STORAGE SILOS.
- II. PNEUMATICALLY ACTUATED ISOLATION VALVES TO BE PROVIDED BELOW EACH TYPE OF COLLECTION HOPPERS IN ADDITION TO MANUAL OPERATED VALVES.
- III. COMMON AIR COMPRESSORS SHOWN ARE TYPICAL FOR EACH UNIT.
- IV. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TECH. SPEC. AND OTHER TENDER DOCUMENTS.
- V. INSTRUMENTS SHOWN ARE INDICATIVE ONLY. COMPLETE INSTRUMENTATION SHALL BE PROVIDED AS PER SYSTEM & FUNCTIONAL REQUIREMENTS AS SPECIFIED.
- VI. INSTRUMENT AIR PIPING IS NOT SHOWN. IN THE UNIT, IT SHALL BE ROUTED TO DIFFERENT VALVES, BAG FILTERS, ETC., IN FLY ASH HANDLING SYSTEM AS PER SYSTEM DESIGN AND REQUIREMENTS.
- VII. SUITABLE DUST SUPPRESSION FACILITIES SHALL BE PROVIDED IN BA SILO AREA SIMILAR TO THAT OF FA SILO AREA.
- VIII. EACH CONVEYING AIR COMPRESSOR SHALL BE PROVIDED WITH INDEPENDENT AIR DRYING PLANT REFRIGERANT TYPE AND AIR RECEIVER AS PER TECH. SPECIFICATION.
- IX. TO BE PROVIDED BELOW SILOS FOR TRUCK/ RAIL WAGON MOVEMENT. THE SILO UNLOADING FACILITY TRUCK/ CLOSED TANKER/ RAILWAGON LOADING. HOWEVER, BIDDER SHALL ENSURE THAT THE CLEARANCE OF TRACKS SHALL BE AS PER RAILWAYS/ RDSO GUIDELINES. THE SCOPE INCLUDES GETTING APPROVALS FROM
- X. INSTRUMENT AIR SHALL BE PROVIDED WITH MANUAL ISOLATION VALVE IN AIR LINE. THIS IS APPLICABLE FOR THE
- XI. TO BE PROVIDED FOR MANUAL VALVES AS PER SYSTEM REQUIREMENTS & CONTROL PHILOSOPHY.
- XII. FOR ALL INSTRUMENTS AND DRIVES, SUPPLIER TO ASSIGN UNIQUE TAG NUMBERS FOR IDENTIFICATION. THIS TAG NUMBER SHALL BE INDICATED ON ALL DOCUMENTS/DRAWINGS/DATA SHEETS APPLICABLE FOR THE RESPECTIVE INSTRUMENT/DRIVE.
- XIII. PRESSURE MEASUREMENT (TRANSMITTER) TO BE PROVIDED FOR INSTRUMENT AIR HEADER IN SILO AREA.
- XIV. ONE NO. PI AND PG SHALL BE PROVIDED IN EACH UNIT SERVICE WATER HEADER USED FOR VACUUM PUMP SEALING/COOLING.
- XV. THERE SHALL BE TWO NO. OF OUTLETS FROM EACH OF THE FLY ASH MAIN SILO (I.E., SILO NO.-1,2 & 3), FOR UNLOADING OF FLY ASH THROUGH HCSD SYSTEM. IN DOING SO, DETAIL-X SHALL BE APPLICABLE.
- XVI. THERE SHALL ONE (01) NO IN CONNECTION LINE WITH ISOLATING VALVE AT COMMON HEADER CONVEYING AIR LINE OF EACH UNIT.

Complete Detail E is not applicable for ECO Hoppers. Below Expansion Joint, the arrangement shall be as per requirement of ECO Metallic Belt Conveyor.

LEGEND :	
	SOLENOID VALVE
	GLOBE VALVE
	BALL VALVE
	GATE VALVE
	NON RETURN VALVE
	PRESSURE RELEASE VALVE
	PNEUMATIC KGV
	MANUAL KGV
	MOTOR
	PRESSURE GAUGE
	PRESSURE TRANSMITTER
	PRESSURE SWITCH
	LEVEL TRANSMITTER (ULTRASONIC TYPE)
	LEVEL GAUGE
	LEVEL SWITCH
	LEVEL SWITCH
	DENSITY METER
	SULLRY FLOW TRANSMITTER
	DEW POINT METER
	AUTOMATIC MOISTURE TRAP
	TEMPERATURE GAUGE

<b>FOR TENDER PURPOSE ONLY</b>			
<b>DAMODAR VALLEY CORPORATION</b>			
KODERMA THERMAL POWER PLANT, PH-II (800 MW x 2)			
TITLE:- FLOW DIAGRAM OF BOTTOM ASH, COARSE ASH HANDLING SYSTEM AND HCSD SYSTEM			
DRAWN: KD	SCALE: NTS	DATE: 07/10/2025	
CHECKED: KD	REVIEWED: AKB	APPROVED: AKB	
DWG NO.-3112-108-POM-A-910			SHEET 2 OF 2
			<b>Rev-2A</b>