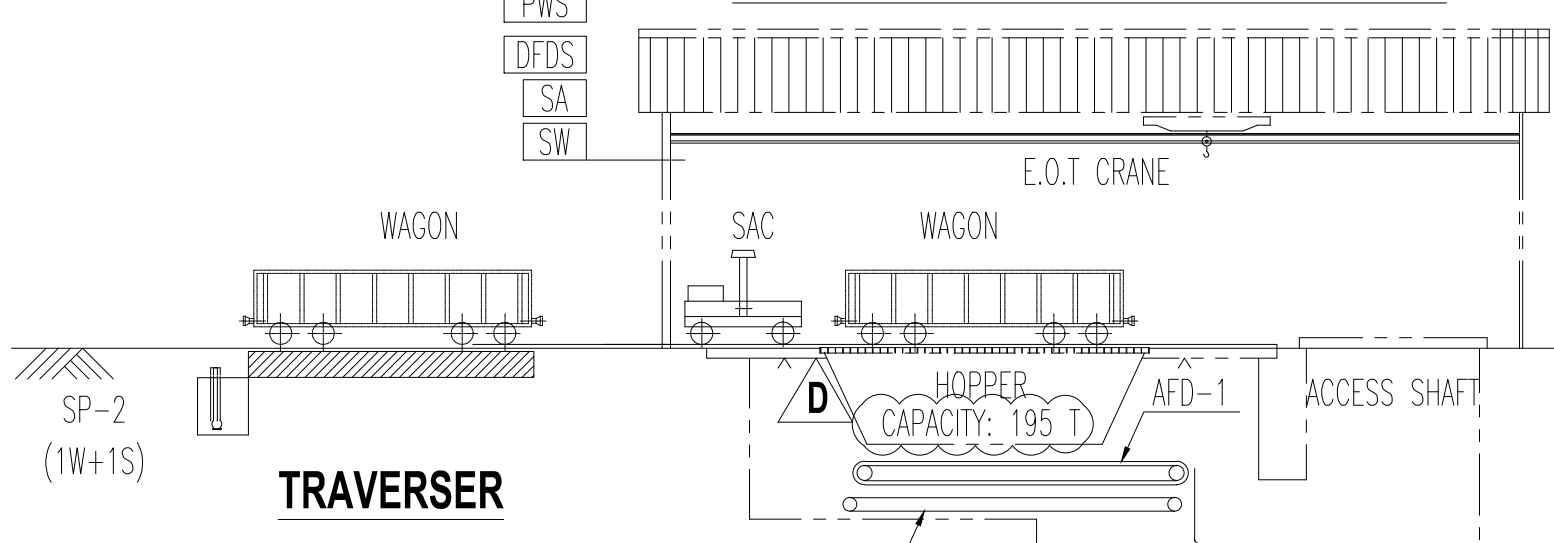


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(ON SW)

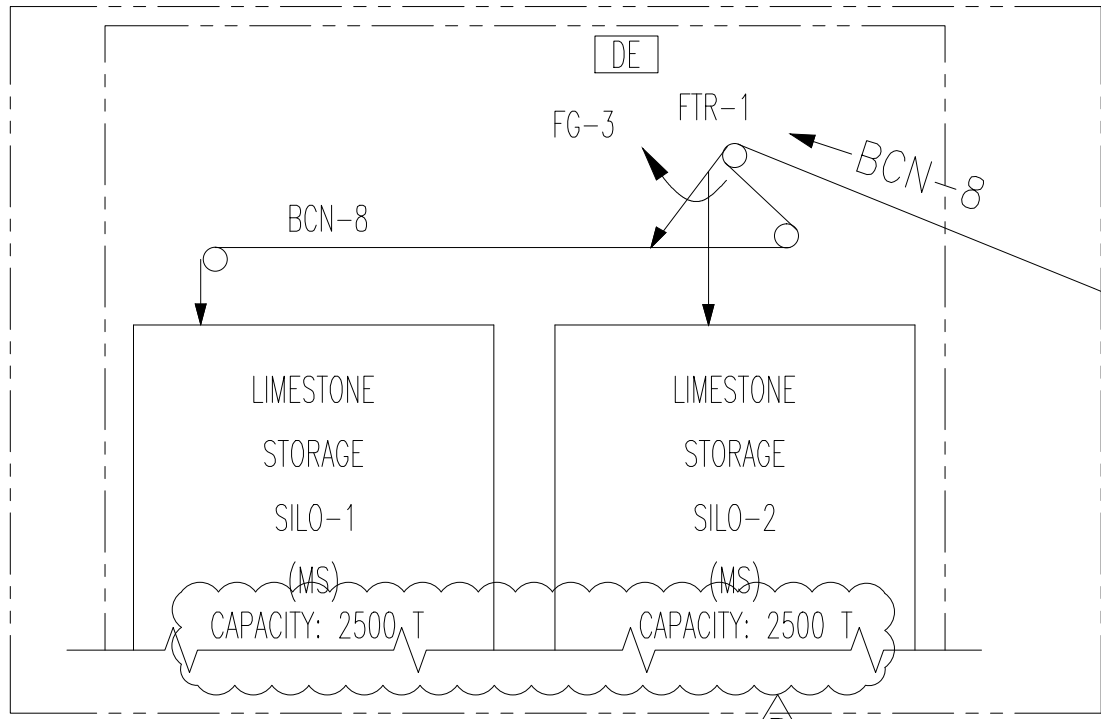
FLOW DIAGRAM FOR COAL, PET COKE AND LIMESTONE HANDLING SYSTEM

WAGON TIPLER COMPLEX



WAGON TIPLER COMPLEX

TRUCK UNLOADING HOPPER COMPLEX (FOR LIME STONE)



REFER L&T DRG.
015019-M-BM-LS-FD-0001

CRUSHER & SCREEN HOUSE

JNT-2

JNT-3

COAL SILO BUILDING

UB-5

UB-6

JNT-1

PET COKE BUNKER

JNT-4

L&T'S SCOPE OF WORK

EXISTING

NOT IN CHS PACKAGE

(CIVIL WORK SHALL BE PROVIDED BY TCE/HMEL)

NOTES

- CONVEYORS SHALL BE PROVIDED WITH ALL ACCESSORIES SUCH AS STRINGER, SHORT POST, IDLERS, PULLEYS, PULL CORD, BELT SWAY AND ZERO SPEED SWITCHES, BELT CLEANER UNITS, TENSIONING DEVICES ETC. AS PER TECHNICAL SPECIFICATION, THESE ARE NOT SHOWN IN THE FLOW DIAGRAM FOR CLARITY.
- THIS DRG. DOES NOT INDICATE COMPREHENSIVE SCOPE OF WORK AND IS ONLY MEANT TO INDICATE COAL FLOW PATH.
- ALL IN-LINE MAGNETIC SEPARATORS SHALL BE WITH TRAMP IRON CHUTES. THESE ARE NOT SHOWN FOR CLARITY.
- ELECTRIC HOIST AND CHAIN PULLEY BLOCKS ARE NOT SHOWN IN THE DRAWING FOR CLARITY.
- FOR PLOT PLAN, REFER DRAWING NO: 015019-M-BM-CS-PP-0002.
- INTEGRAL WEIGHING SHALL BE PROVIDED ALONG WITH THE WAGON TIPLER.
- INTER CONNECTING GALLERY BETWEEN UNIT 5 & 6 SHALL BE IN L&T SCOPE.
- LEVEL INDICATORS AT BOILER BUNKER IS NOT IN L&T SCOPE.

SCOPE OF WORK WITH LEGENDS:

S.NO	DESCRIPTION	SYMBOL	CAPACITY (RATED / DESIGN)	QTY
1	WAGON TIPLER WITH INTEGRAL WEIGHING : WT		25 TIPS/HR	1 NO.
2	SIDE ARM CHARGER : SAC		-	1 NO.
3	APRON FEEDER : AFD-1 & AFD-2		CAPACITY- 2000 TPH / 2000 TPH BELOW WT HOPPER AND 150/150 TPH BELOW TRUCK DUMP HOPPER	2 NOS
4	DRIBBLE FEEDER : DF-1 & DF-2		CAPACITY - 30 TPH / 30 TPH	2 NOS
5	BELT CONVEYOR : BCN-1, BCN-2, BCN-3 & BCN-8		CAPACITY -2000 TPH / 2000TPH BELT WIDTH - 1600 mm	4 NOS
6	BELT CONVEYOR : BCN-4, BCN-5, BCN-6 & BCN-7		CAPACITY - 400 TPH / 400 TPH (FOR BCN-4, BCN-5 & BCN-7) CAPACITY - 500 TPH / 500 TPH (FOR BCN-6) BELT WIDTH - 800 mm	4 NOS
7	PIPE CONVEYORS : PCN - 1		CAPACITY - 2000 TPH / 2000TPH BELT WIDTH - 2400 mm	1 NO
8	PIPE CONVEYORS : PCN-2, PCN-3, PCN-4 & PCN-5		CAPACITY - 400 TPH / 400 TPH (FOR: PCN-3 & PCN-4) CAPACITY - 500 TPH / 500 TPH (FOR: PCN-2) CAPACITY - 100 TPH / 100 TPH (FOR: PCN-5) BELT WIDTH - 1200 mm	4 NOS
9	RIVERSIBLE BELT FEEDER : Rbfd-1		CAPACITY - 2000 TPH / 2000 TPH BELT WIDTH - 1800 mm	1 NO
10	RIVERSIBLE SHUTTLE : FEEDER-RSFD-2 & RSFD-3		CAPACITY - 2000 TPH / 2000 TPH BELT WIDTH - 1800 mm	2 NOS
11	BELT FEEDER : BFD-1 & BFD-2		CAPACITY - 400 TPH / 400 TPH BELT WIDTH - 1000 mm	2 NOS
12	BELT FEEDER : BFD-3		CAPACITY - 500 TPH / 500 TPH BELT WIDTH - 1000 mm	1 NOS
13	PRIMARY CRUSHER (DOUBLE ROLL) : PC-1		CAPACITY - 2000 TPH / 2200 TPH	2 NOS
14	HAMMER MILL CRUSHER : CRS-1 & CRS-2		RATED/DESIGN CAPACITY - 200 / 250 TPH	2 NOS
15	FLIP FLOP SCREEN (PRIMARY) : SCR-1, SCR-2		RATED CAPACITY - 200 TPH FRESH FEED + RECIRCULATED LOAD (50 TPH) APPROX. DESIGN CAPACITY - 220 TPH FRESH FEED + RECIRCULATED LOAD (60 TPH) APPROX.	2 NOS
16	METAL DETECTOR : MD-1, MD-2 & MD-3		-	3 NOS
17	INLINE MAGNETIC SEPARATOR : ILSM-2 & ILSM-3		-	2 NOS
18	SUSPENDED MAGNET : SM-1		-	1 NO
19	INLINE CONVEYOR SCALE : ICS-1, ICS-2, ICS-3, ICS-4 & ICS-5		-	5 NOS
20	PADDLE FEEDER : PFD-1 & PFD-2		CAPACITY - 400 TPH / 400 TPH BELT WIDTH - 800 mm	2 NOS
21	EOT CRANE		CAPACITY : 30 T / 5 T	1 NO.
22	UNDER SLUNG CRANE		CAPACITY : 3 T	1 NO.
23	FLOW DIVIDER : FD		-	1 NO.
24	FLAP GATE : FG-1, FG-2 & FG-3		-	3 NOS
25	FIXED TRIPPER : FTR-1		CAPACITY - 2000 TPH / 2000TPH	1 NO
26	FUEL SAMPLING UNIT : FSU		-	1 NO
27	V-PLOUGH : VP-1, VP-2, VP-3, VP-4 & VP-5		CAPACITY - 400 TPH / 400 TPH	5 NOS
28	SUMP PUMP : SP -1 & SP-2 & SP-3		-	3 SETS
29	RADAR LEVEL TRANSMITTER		-	1 LOT
30	SERVICE WATER : SW		-	1 LOT
31	SERVICE AIR SYSTEM : SA		-	1 LOT
32	VENTILATION SYSTEM : VS		-	1 LOT
33	BUNKER VENTILATION SYSTEM : BVS		-	4 NOS
34	DRY FOG DUST SUPPRESSION SYSTEM : DFDS		-	1 LOT
35	DUST SUPPRESSION SYSTEM : DS		-	1 LOT
36	PADDLE FEEDER DUST SUPPRESSION SYSTEM : PFDS		-	1 LOT
37	DUST EXTRACTION SYSTEM : DE		-	1 LOT
38	ROD GATE : RG		-	1 NO
39	KNIFE EDGE GATE : KEG		-	1 NO
40	PRE WETTING SYSTEM FOR PRE-WAITING WAGONS : PWS		-	1 NO
41	VIBRATION ISOLATION SYSTEM		-	3 NOS
42	BELT VULCANIZING MACHINE		-	1 NO
43	PRESSURE VENTILATION SYSTEM(FOR ELECTRICAL SWGR ROOMS)		-	1 LOT

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D	REVISED AS PER CLIENT COMMENTS	05/11/15	06/12/15	06/12/15	06/12/15
C	REVISED AS PER CLIENT COMMENTS				
B	REVISED AS PER CLIENT COMMENTS				
A	FIRST ISSUE				
REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED

DO NOT SCALE		ISSUED FOR CONSTRUCTION	
HPCL - MITTAL ENERGY LIMITED GURU GOBIND SINGH REFINERY BATHINDA - PUNJAB - INDIA			
TATA CONSULTING ENGINEERS LIMITED MUMBAI			
PROJECT: 2 x 300 TPH COAL/ PETCOKE FIRED STEAM GENERATORS			
HMEL Ref.	9112-575-TCS-182-00002	REV.	R00
Larsen & Toubro Limited Metallurgical & Material Handling BMH, Power BU Kolkata			
JOB No.: 015019		TITLE: FLOW DIAGRAM FOR COAL, PET COKE AND LIMESTONE HANDLING SYSTEM	
DSGN	CVS	SGN	DATE
DRWN	JTH	JTH	19.02.15
CHKD	SAA	SAA	20.02.15
APPD	BCN	BCN	21.02.15
L&T DRG No. 015019-M-BM-CS-FD-00001		SCALE	~
SHEET 1 OF 1		PROJECTION	
RELEASED FOR	☐ PRELIMINARY	☐ TENDER	☐ INFORMATION
	☒ APPROVAL	☐ CONSTRUCTION	

CHECKED BY	SGN	DATE
ARCHITECTURE		
CIVIL & STRUCTURAL		
UTILITY		
MECHANICAL		
ELECTRICAL		
INSTRUMENTATION		