



1. FD Fan, Cyclone Separator, ID fan & Venturi Scrubber to be placed on first floor i.e. 7 meter above from paddle dryer bottom location. Please revert Any concern on pressure drop from process aspects.
2. All outlet connection in ducting to be standard as per ASA 150# or companion standard flanges to supply along with equipment to avoid any mismatch in ducting. (TP 1, TP2 & TP6 nozzles)
3. Share loading details of all equipment to address structure details accordingly.

REV.	PARTICULARS	BY	DATE	CHD	APPD
1	DRAWING REVISED AND REDRAWN	SPJ	14.05.20	NVB	CDP

  

**NOTES**

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS & ELEVATIONS ARE BASED ON GENERAL ARRANGEMENT & MAY BE SLIGHTLY MODIFIED TO SUIT FINAL ASSEMBLY.
3. CLIENT TO MARK UTILITY CONNECTIONS LOCATIONS.
4. ALL CIVIL, STRUCTURAL, ELECTRICAL, INSULATION WORK IN CLIENT'S SCOPE.
5. SUITABLE PLATFORM FOR OPERATION & MAINTENANCE IN CLIENT'S SCOPE.
6. ALL INTERCONNECTED PIPING, DUCTING INVOLVED IN THE PACKAGE WILL BE IN CLIENT'S SCOPE.
7. CLIENT TO GENERAL PRODUCT INLET & OUTLET LOCATION AND CRITICAL DIMENSION SHOWN IN YELLOW COLOR.
8. CLIENT TO GENERAL OPERATING & MAINTENANCE FEASIBILITY IN PLANT.

**BOLD LIST :-**

1. AIR HEATER (AH-101)
2. FORCED DRAFT FAN (FD-101)
3. INDUCED DRAFT FAN (ID-101)
4. PLATE TYPE HEAT EXCHANGER
5. SCRAMBLER PUMP (SP-101)
6. ALL WARE TYPE

DESIGN DATA (PADDE DRYER)					
		CRANK	LIMPET	SHAFT	
1	SERVICE (OPERATING FLUID)		WATER	STEAM	STEAM
2	DESIGN PRESSURE	DESIGN	(+/-) 50 MM W/C	8 bar(g)	8 bar(g)
3	TEMPERATURE	DESIGN	(+/-) 100 MM W/C	10 bar(g)	10 bar(g)
4	TEST PRESSURE		105 °C	175 °C	175 °C
5	CORROSION ALLOWANCE		200 °C	220 °C	220 °C
6	SITAM INLET TEMPERATURE		ATM.	13 bar(g)	11 bar(g)
7	CONDENSATE OUTLET TEMPERATURE			(HYDRO.)	(NEU.)
8	CONVAYING SHAFT SPEED				
9	INSULATION ON LIMPET (BY CLIENT)				
10	INSULATION ON TOP COVER (BY CLIENT)				
11	FEED TEMPERATURE				
12	FEED RATE (OPERATING)				
13	BULK DENSITY FEED				
14	HEATING MEDIUM				
15	FEED PRODUCT MOISTURE				
16	DISCHARGE PRODUCT MOISTURE				

  

**NOZZLE SCHEDULE**

MARK	QTY.	N.B.	SIZE	SCH.	FLANGE	TYPE	FACE	SERVICE	REMARK
				THK.	STD				
TP1	1	400x400	6 THK.	K.E.L.	-	-	-	PRODUCT INLET INLET	ON DRYER
TP2	1	300x300	16 THK.	K.E.L.	-	-	-	PRODUCT OUTLET	ON DRYER
TP3a,b	2	15	SCH 10S ASA1504 S.O.	R.F.	VEN	FOR LIMPET			ON DRYER
TP3a,b	2	50	SCH 10S ASA1504 S.O.	R.F.	STEAM INLET	TO LIMPET			ON DRYER
TP3a,b	2	40	SCH 10S ASA1504 S.O.	R.F.	CONDENSATE RETURN	HEADER LIMPET			ON DRYER
TP6	1	450NB	SCH 10S K.E.L.	-	-	-	-	EXHAUST GAS OUTLET	ON DRYER
TP7	1	25	SCH 10S ASA1504 S.O.	R.F.	SCRUBBER	WATER LINE			ON DRYER
TP8	1	150NB	SCH 10S ASA1504 S.O.	R.F.	CRYOLONE	FINES OUTLET			ON CYL
TP9a,b	2	80	SCH 80S ASA1504 S.O.	R.F.	STEAM INLET	TO SHAFT			SHAFT
TP9a,b	2	40	SCH 80S ASA1504 S.O.	R.F.	CONDENSATE RETURN	HEADER SHAFT			SHAFT

P.NO.	PARTICULARS	MATERIAL	SIZE	REMARK	WT.
11	SCROLLER PUMP (SP-101a/b)	-	-	BOUGHT OUT	-
10	VENTURI SCROLLER (VS-101)	SS 316L	REF. DRG. NO.NPD-136-D-160	KEL	-
9	ROTARY VALVE (RV-101)	SS 316L	-	BOUGHT OUT	-
8	DRIE ASST.	REF. DRG. NO.NPD-136-D-122	KEL	-	-
7	SCROLLER TANK (ST-101)	SS 316L	REF.DRG.NO.-NPD-136-D-155	KEL	-
6	INDUCED DRAFT FAN (ID-101)	SS 316L	-	BOUGHT OUT	-
5	CYCLONE SEPARATOR (CY-101)	SS 316L	REF.DRG.NO.-NPD-136-D-151	KEL	-
4	PLATE TYPE HEAT EXCHANGER	-	-	BOUGHT OUT	-
3	FORCED DRAFT FAN (FD-101)	SS 316L	-	BOUGHT OUT	-
2	AIR HEATER (AH-101)	SS 304	-	BOUGHT OUT	-
1	PADDLE DRYER (PD-101)	SS 316L	REF.DRG.NO.-NPD-136-D-103	KEL	-

BILL OF MATERIAL									
1	APPROVAL	CDP	14-05-20	CDP					
0	APPROVAL/PRELIMINARY	CDP	27-04-20	CDP					
R	FOR	BY	DATE	SIGN	R	FOR	BY	DATE	SIGN
DRAWING RELEASE PARTIULARS									



**KILBURN ENGINEERING LTD.**

PLOT NO. 6, MIOC - SARAWAI KALYAN BHIMNADI ROAD, KALYAN,  
DIST. THANE, MAHARASHTRA 421311 INDIA

**A/C: M/s. UPL LIMITED**

**TITLE: SYSTEM G.A. OF PADDLE DRYER (KPD-11W)**

CLIENTS P.O. NO.		WORKING ORDER NO.		REF. DRAWING NO.	
NPD-136					
DATE	DESIGNED	DRAWN	CHECKED	APPROVED(P)	APPROVED(M)
20.03.20	CPD	SPJ	N/A		<i>PC</i>
SCALE	DIMENSION	QTY. REQD	DRAWING NO.		
1:80	mm.	ONE	NPD-136-D-102		
					1