

TECHNICAL SPECIFICATIONS FOR SELECTION OF ATOMIZER

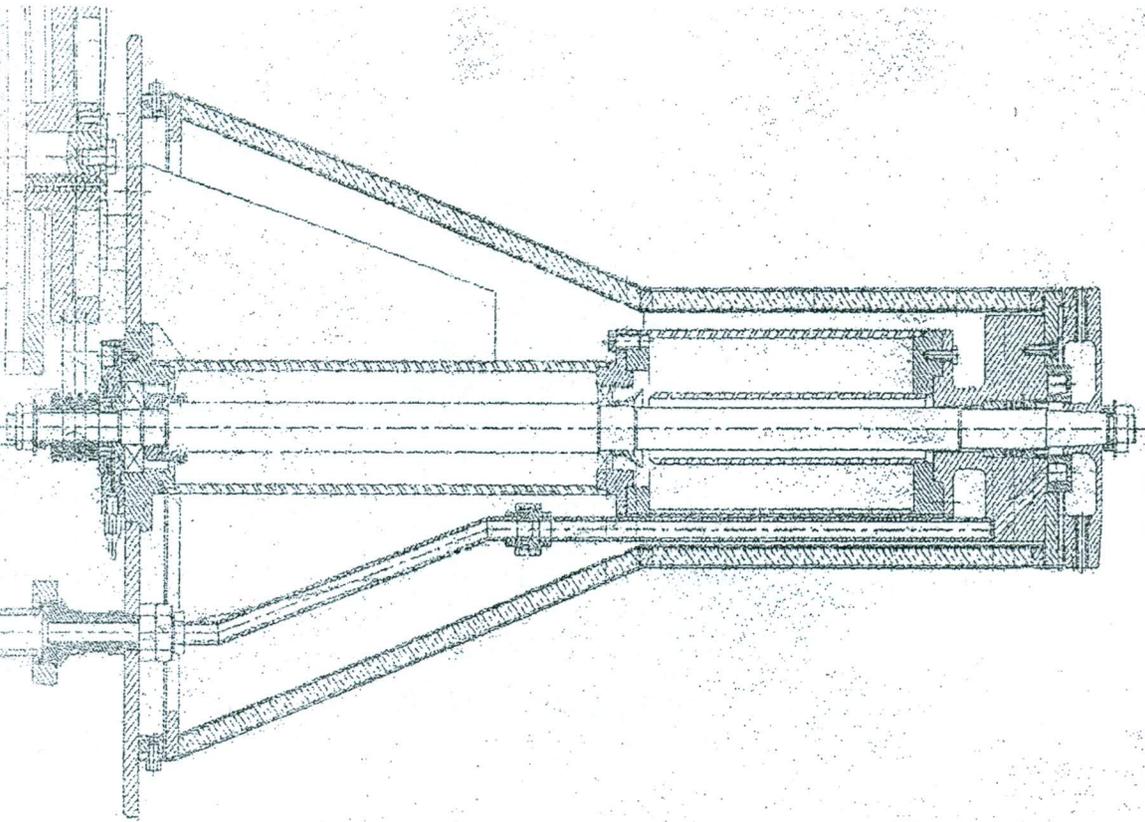
Complete set of High Speed Centrifugal Rotary Disc Atomizer, wheel spindle (shaft) shall be driven by a motor through a flat belt and pulley arrangement, for atomizing the feed as detailed below :

Duty	: To dry slurry containing MDU solid & liquor having 25 gm/ltr. Of chloride ion and 25 gm/ltr of sulphate ion with 35% w/w solids at metered rate
Rate of Evaporation	: 330 litres/hr
Speed	: 10,000 rpm of shaft
pH	: 6.5 to 7.2
Specific Gravity of solid	: 4.0
Size of solid	: 100 % passing through 200 mesh 80 % passing through 300 mesh
Specific Gravity of liquid	: 1.0
Temperature	: 600 ° C (inlet) & 230 ° C (outlet)
MOC	: Suitable for handling MDU slurry with above mentioned composition at 10,000 rpm and 600 ° C (inlet) temperature Wetted parts : Stainless Steel 310 Non Wetted parts / Non exposed parts : SS 316 Atomizer Wheel : SS 310 Wheel orifice / nozzle : Si Carbide
Drive	: Through Flat Belt, pulley, motor
Type	: Rotary Wheel
Lubrication System	: Gravity, Wick
Existing System	: Anhydro make (Demark) Atomizer Model CB – 160 and Mojj make Atomizer Model – ATM 160 under development
Identical to	: Complete set of High Speed Centrifugal Rotary Disc Atomizer already supplied against PO No.: 2/8178/8599 dt: 26/08/2013 by M/S Mojj Engineering with some modifications as below: <ul style="list-style-type: none"> • Modification of Feed Pipe as shown in Fig. 1 • Drive Arrangement as shown in Fig. 2

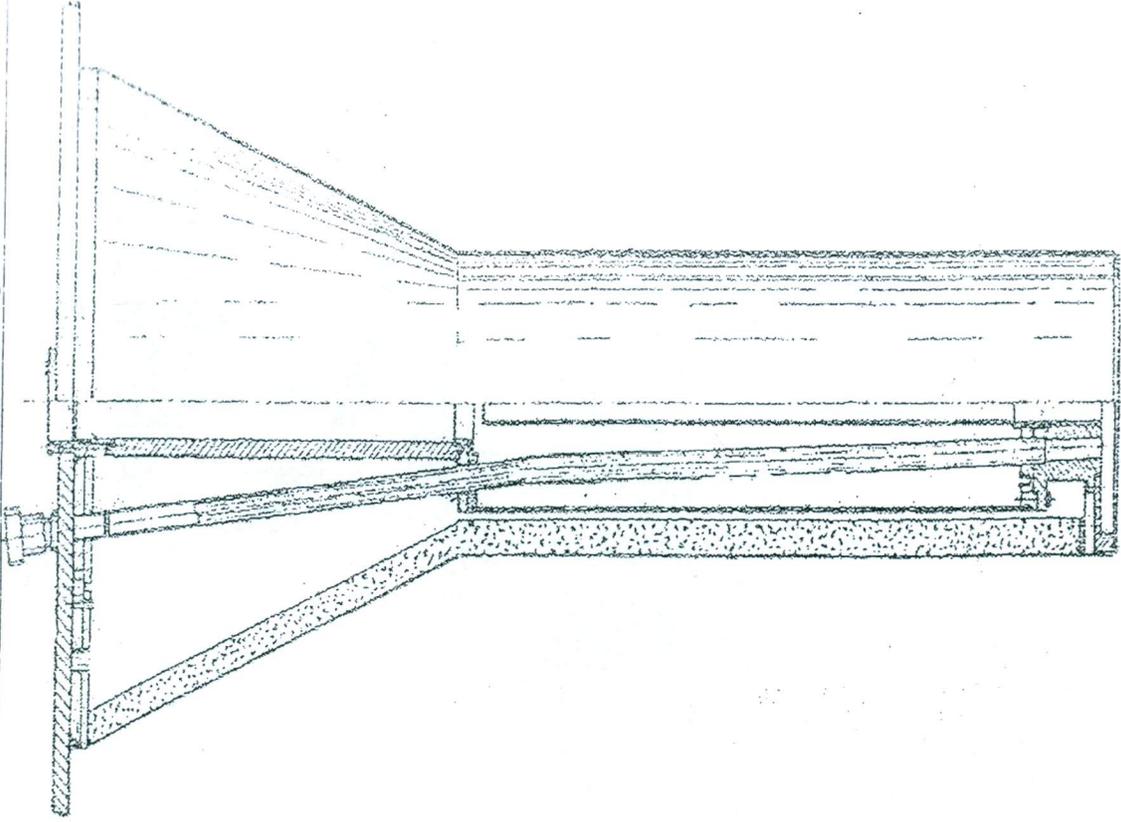
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Modification of Feed Pipe Arrangement

Existing Feed Pipe Arrangement in Mojji Make Atomizer



Required Feed Pipe Arrangement

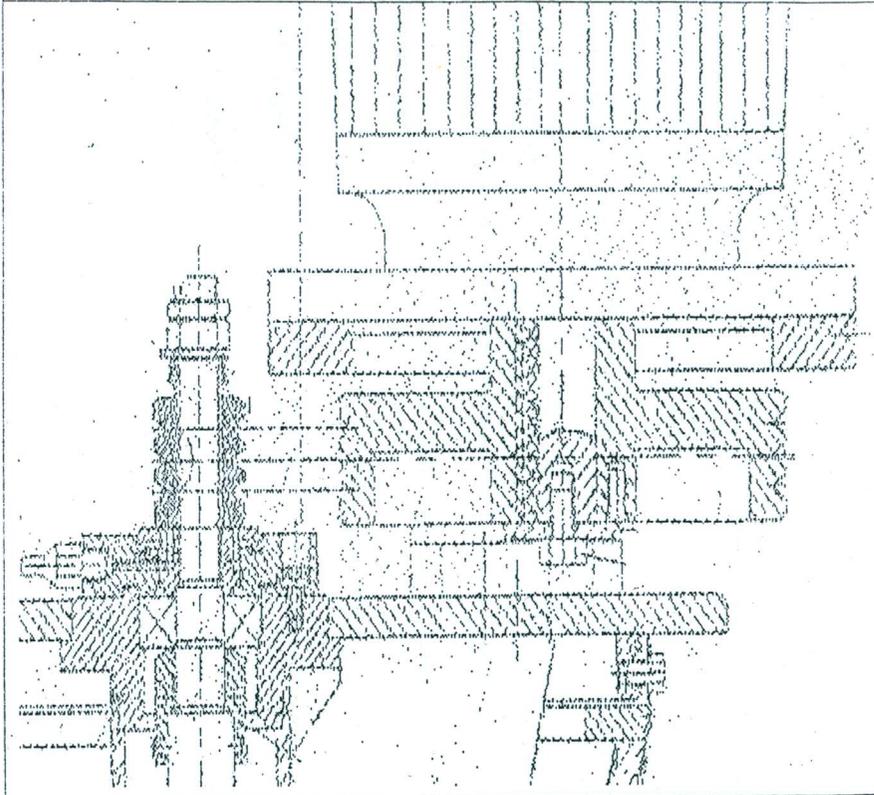


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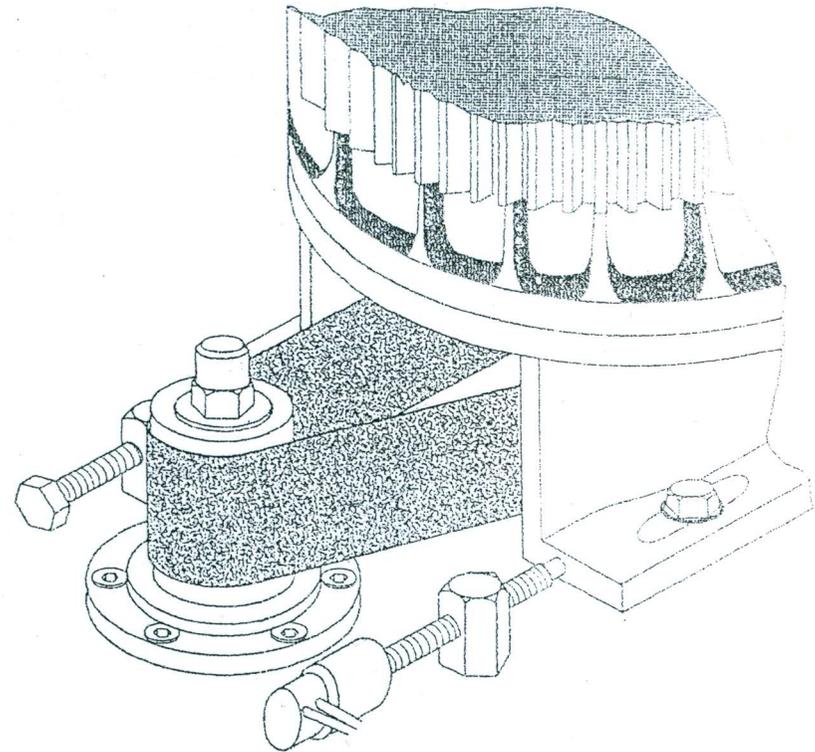
Modification of Drive Arrangement

V Belt Drive to be modified into Flat Belt Drive

Existing V Belt Drive Arrangement in supplied Mojj Make Atomizer



Required Flat Belt Drive Arrangement



The offer must be submitted in the given format

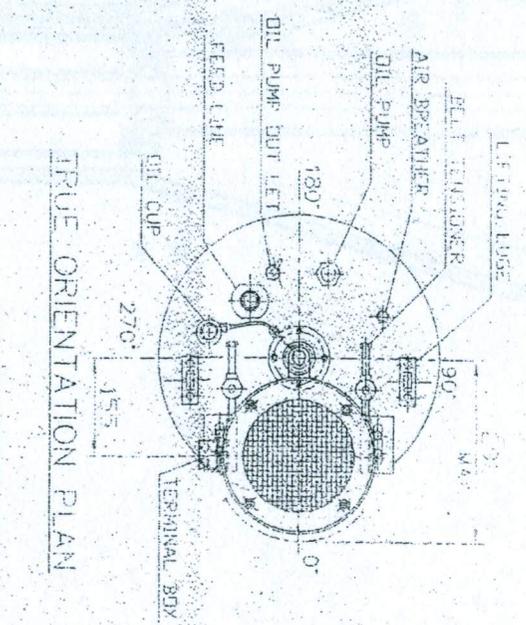
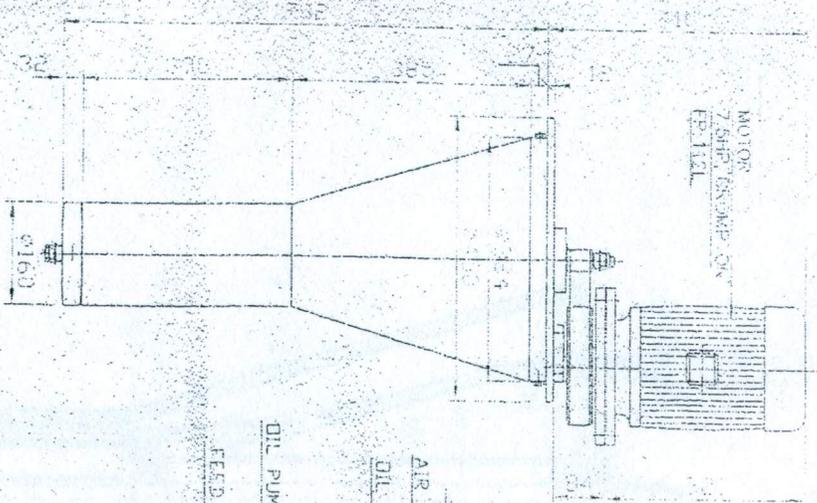
Atomizer Make & Model offered	:	
Atomizer type offered	:	
Speed of the Atomizer	:	
Suitability of Atomizer for Particle Size	:	
Type of Power Transmission(Flat belt / V Belt Drive)	:	
Make, Size and numbers of belt	:	
Drive and Driven Pulley Size	:	
Rate of Evaporation	:	
Efficiency of Atomizer	:	
Working Temperature	:	
BHP required	:	
Motor offered Make, Rating, Speed and Frame size	:	
Weight of bare Atomizer (Kg)	:	
Weight of Motor (Kg)	:	
Type of lubrication offered	:	
Lubricating oil Grade	:	
Installed Bearing Make	:	
Installed Bearing Number	:	
Material of Construction of		
a) Wetted parts	:	
b) Non Wetted parts	:	
c) Atomizer Wheel	:	
d) Orifice / Nozzles	:	
e) "O" Rings / Gaskets	:	
Delivery Period	:	
Validity of Offer	:	

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Note: The offer must contain confirmation of the following details :

1. Atomizer outside dimensions shall be as per Rotary Atomizer 160 already supplied against PO No.: 2/8178/8599 dt: 26/08/2013 (Model No.: ATM – 160) your ref. details.: Job No. – MMS687, Reld. by – DCZ dt: 26/09/2013 .
2. The offered Rotary Atomizer shall have interchangeability of spares with existing Rotary Atomizer 160 already supplied against PO No.: 2/8178/8599 dt: 26/08/2013.
3. Essential spares to be supplied along with atomizer which shall be inclusive in quoted price of atomizer price :
 - a) Spare Spindle : One no.
 - b) Spare Atomizer Wheel : One no.
 - c) Spare Orifice / Nozzles : One set
 - d) Spare Drive Belts : 3 sets
 - e) Atomizer Stand : One no.
 - f) Tool Set : One set
 - g) Spare set of 'O' Rings / Gaskets : Two sets
4. Party must submit the list of optional spares required for two years trouble free operation.
5. Operation and Maintenance Manual (two sets) to be supplied along with supply.
6. Party must mention details of installed bearings (Make & Bearing Numbers) and Oil Seals in their offer. Bearings of SKF / FAG make shall be preferred.
7. Party must enclose GA dimensional drawing & Assembly drawing of Atomizer along with their offer.
8. The offer must contain bifurcated price of Atomizer, Drive Motor, Essential spares etc. and Taxes, duties, P & F charges should be mentioned clearly.
9. Guarantee : The Atomizer, complete in all respects including electrical, instrumentation and safety devices must be guaranteed for trouble free performance for 12 months from the date of commissioning.
10. Make of motor shall be ABB / Crompton Greaves / Kirloskar
11. **Payment Terms:**
 - a) 90% of order value within 30 days from the date of receipt and acceptance of material at our stores.
 - b) Balance 10% of order value within 30 days after satisfactory commissioning in supervision of your representative.
12. Delivery of material required within 6 – 8 weeks of PO.

Offer without the aforesaid details will be rejected out rightly.



ELEVATION

TRUE ORIENTATION PLAN

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 2. APPROX TOTAL WGT. = 140 Kgs

FOR ORDER	
JOB NO. =	MMS687
RELD. BY. =	DCZ
DATE. =	26.09.2013



MJS ENGINEERING SYSTEMS LTD.
 PROCESS DESIGNERS AND PROJECT ENGINEERS

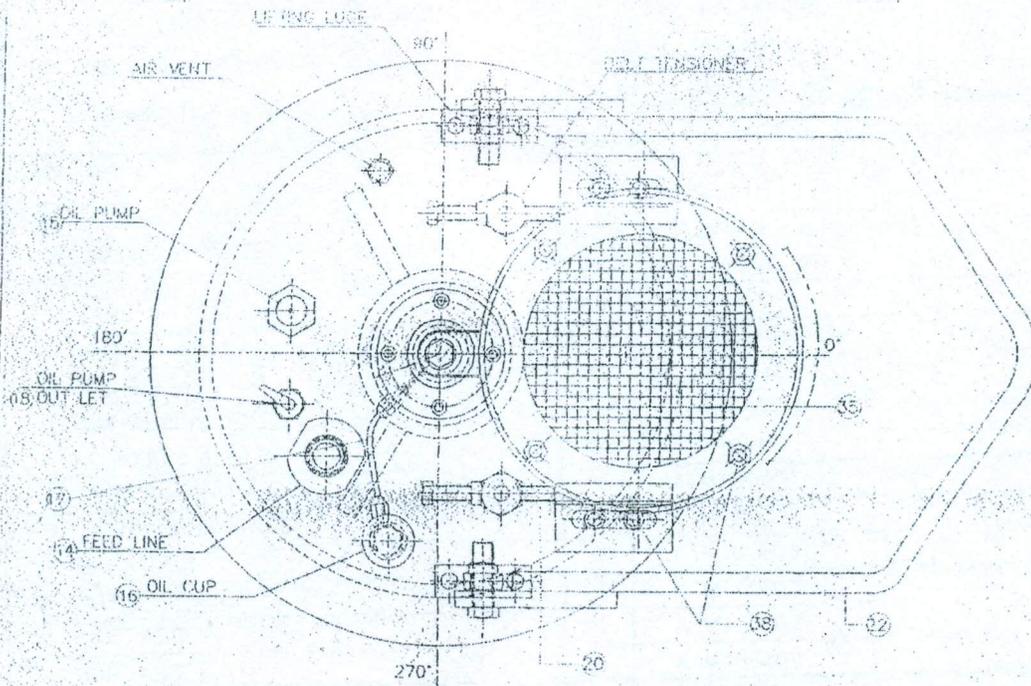
OVERALL C.A. OF ATOMISER Ø160

TITLE		CODE NO.	
OVERALL C.A. OF ATOMISER Ø160			
DRAWN	D.P.I.	SCALE	DRAWING NO.
CHECKED		1:10	MES/DD1/079
APPROVED		DATE	27/12/2000
		REV	SIZE
		1	A4

ZIRPE C:\ZIRPE\ATM\MES\ATM150\0-0A

Dimensional Detail of Existing Atomizer Supplied against PO No. : 2/8178/8599 dt: 26/08/2013

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TRUE ORIENT PLAN



MOJJ ENGINEERING SYSTEMS LTD.
PROCESS DESIGNERS AND PROJECT MANAGERS

MES/J/MMS687/ATM160/MANUAL

Orientation Detail of Existing Atomizer Supplied against PO No. : 2/8178/8599 dt: 26/08/2013

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ITEM NO	DESCRIPTION	QTY	ITEM CODE
1	HEX. SCREW	1	ATM15001
2	WASHER	1	ATM15002
3	AUTOR FLANGE	1	ATM15003
4	HEX. LOCK NUT	1	ATM15004
5	HEX. NUT WITH WASHER	2	ATM15005
6	WOODRUFF KEY	1	ATM15006
7	HEX. SOCKET HEAD SCREW	2	ATM15007
8	HEX. BOLT	2	ATM15008
9	KEY SOCKET HEAD SCREW	2	ATM15009
10	HEX. HD. SCREW	2	ATM15010
11	GASKET	1	ATM15011
12	HEX. SOCKET HEAD SCREW	1	ATM15012
13	GASKET	1	ATM15013
14	TOP BEARING	1	ATM15014
15	BOTTOM BEARING	1	ATM15015
16	LIFTING HOOD ASSLY.	1	ATM15016
17	MOTOR MOUNTING BASE	1	ATM15017
18	BELT TENSIONER ASSLY.	1	ATM15018
19	AIR BREATHER	1	ATM15019
20	OIL OUTLET ASSLY.	1	ATM15020
21	OIL PIPE ASSLY.	1	ATM15021
22	OIL CUP ASSLY.	1	ATM15022
23	OIL PUMP ASSLY.	1	ATM15023
24	FEED CONNECTOR + FEED LINE PIPE	1	ATM15024
25	BEARING LOCKNUT	1	ATM15025
26	SHAFT HOLDING FLANGE	1	ATM15026
27	BEARING LOCATOR	1	ATM15027
28	EXTERNAL THREADED BUSH	1	ATM15028
29	SPRING	1	ATM15029
30	BUSH	1	ATM15030
31	CONE MOUNTING FLANGE	1	ATM15031
32	OIL THROWER	1	ATM15032
33	BUSH HOUSING	1	ATM15033
34	LOWER HOUSING	1	ATM15034
35	UPPER HOUSING	1	ATM15035
36	CONE	1	ATM15036
37	SHAFT	1	ATM15037
38	DESCRIPTION	QTY	ITEM CODE



MOJJI ENGINEERING SYSTEMS LTD.
 10/10, 10/11, 10/12, 10/13, 10/14, 10/15, 10/16, 10/17, 10/18, 10/19, 10/20, 10/21, 10/22, 10/23, 10/24, 10/25, 10/26, 10/27, 10/28, 10/29, 10/30, 10/31, 10/32, 10/33, 10/34, 10/35, 10/36, 10/37, 10/38, 10/39, 10/40, 10/41, 10/42, 10/43, 10/44, 10/45, 10/46, 10/47, 10/48, 10/49, 10/50, 10/51, 10/52, 10/53, 10/54, 10/55, 10/56, 10/57, 10/58, 10/59, 10/60, 10/61, 10/62, 10/63, 10/64, 10/65, 10/66, 10/67, 10/68, 10/69, 10/70, 10/71, 10/72, 10/73, 10/74, 10/75, 10/76, 10/77, 10/78, 10/79, 10/80, 10/81, 10/82, 10/83, 10/84, 10/85, 10/86, 10/87, 10/88, 10/89, 10/90, 10/91, 10/92, 10/93, 10/94, 10/95, 10/96, 10/97, 10/98, 10/99, 10/100

MOJJI/J/MM3067/ATM15037/MANUAL
 (SINGLE FILE)

Part Details of Existing Atomizer Supplied against PO No. : 2/8178/8599 dt: 26/08/2013 and Modification required in Marked Parts

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MADHURAJ IMPRINTS PVT. LTD. RANCHI, PH. (0654) 2666666