

TECHNICAL SPECIFICATIONS

NFL Nangal Case Ref. No.					SPX/2024/37
Quotation No. & Date					
Name of Bidder:					
Vendor's Complete Address :					
Vendor's Contact Details: Vendor may furnish E-Mail Id, Telephone / Mobile No. etc. alongwith complete Name & Address details of the firm for Clarifications / Placement of Order.					
Sr. No.	NFL Requirement				Vendors Comment (Agreed / If not Agreed, Please Comment)
1	Sr. No.	Material Code	Description of Material	UOM	Qty. Required
	i.	7474209	Manufacture, Testing & Supply of Urea Prilling Bucket along with Distributor Material: 6061 T6 Aluminum Alloy The Prilling bucket and its distributor must be suitable to the parameters as per Annexure-I & NG-19728	No.	1.000

NOTE:	<ol style="list-style-type: none"><li data-bbox="571 197 1246 271">1. Party shall furnish Material Test and Balancing Certificate along with supplied bucket.<li data-bbox="571 338 1262 450">2. The party to furnish certificate that the bucket and distributor supplied will be interchangeable with the existing bucket system at NFL, Nangal.<li data-bbox="571 517 1270 551">3. The party to furnish guarantee as per NIT clause.<li data-bbox="571 595 1222 707">4. Supplier shall supply Installation, Operation, Testing and Maintenance instructions for the said Prilling System.<li data-bbox="571 752 1254 976">5. The bidder should have supplied Prilling Bucket to any of the Urea Manufacturing Units in India during last fifteen years ending last day of the previous month in which NIT has been issued. Party will submit copy of PO alongwith contact details of end user.	
--------------	---	--

A. Operating Conditions

Solution handled	Urea melt at 138°C, containing 0.3-0.7% Moisture
Flow rate, MTPD	1650 - Normal 1950 - Maximum 480 - Minimum

B. Dimensions of the Prilling Tower

Internal diameter	22 M
Free fall height	80 M
Air flow	Natural draft

C. Performance of Product Size Distribution

Size (mm)	Retained W/W%	Cummulative W/W%
+2.8	1.0 (Max.)	1.0
+2.36	12.5 (Max.)	13.5
+1.7	66.0 (Min.)	79.5
+1.4	14.5 (Min.)	94.0
+1.0	4.5 (Max.)	98.5
-1.0	1.5 (Max.)	100.0

D. Other conditions

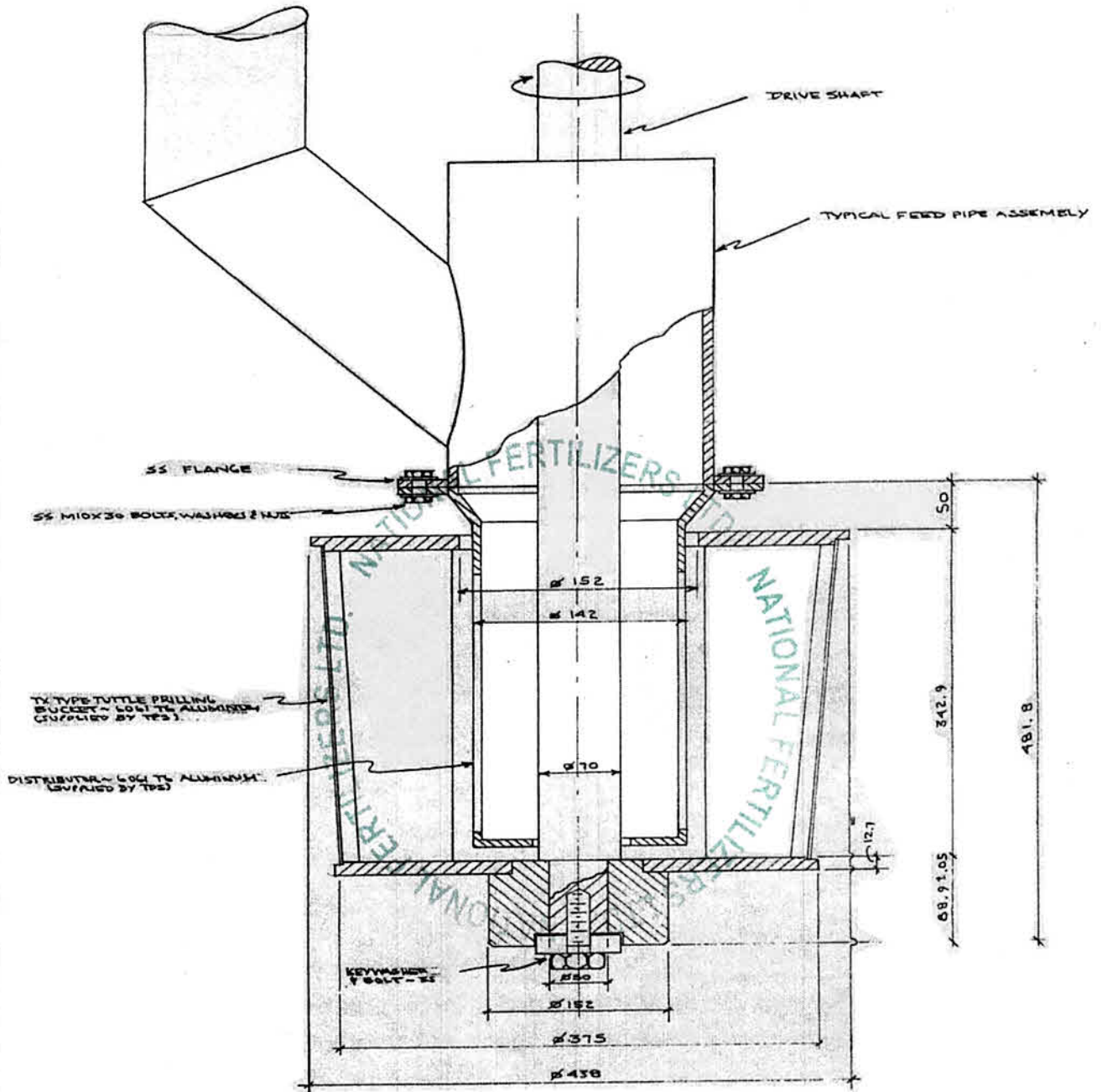
1. The prill temperature shall not exceed 60°C corresponding to an ambient temperature of 45°C.
2. The urea dust emission from the top of the prilling tower shall not exceed 50mg/Nm³ of the air.
3. The average urea prill strength shall not fall below 500gm per prill.
4. The Bucket speed should be between 160 to 500 rpm.
5. The material of construction of the bucket shall be Aluminium alloy.

SPECIAL NOTES:


- The Prilling Bucket shall be designed in such a way that it covers 90% of the Prilling Tower dia at normal operating speed.
- Prilling Bucket should be dynamically balanced.
- Supplied item shall be guaranteed by you against any defect in manufacturing and workman ship for a period of 12 months from the date of installation of 18 months from the date of supply, whichever is earlier.

10/11/24

117



Handwritten signature and date: 10/01/24

 नेशनल फर्टिलाइजर्स लिमिटेड नंगल युनिट, नया नंगल NATIONAL FERTILIZERS LIMITED NANGAL UNIT, NAYA NANGAL		
TITLE	UREA PLANT (PRODUCTION)	SECTION
UREA PRILLING BUCKET		
SCALE: NTS	DRG. NO. NG 19728	SH. 1 OF 1 REV. 0