



एन एफ एल Technical Specification for Procurement of New BFW Pump with Motor

Annexure-I

NFL

Drive at NFL Bathinda Unit

The following specifications defines the minimum requirements for design, engineering, manufacturing, assembly, inspection, testing, painting, packing, supply, erection & successful commissioning of Boiler feed pump for Ammonia plant at National Fertilizers Ltd. Bathinda.

Scope of Vendor:

1. Items to be procured

The equipment's listed below shall be supplied in accordance with the requirements specified in this document, datasheet/specification, applicable codes & standards and other documents attached/referred herein

S.No.	Description	Qty (in nos)
1	Boiler Feed Pump Package consisting mainly of	01
(a)	Centrifugal Pump as per API610 latest edition	01
(b)	Electric Motor	01
(c)	Variable speed hydraulic Coupling	01
(d)	Coupling & coupling guard	01
(e)	Base Frame and fastners	01
(f)	Lube Oil System with Auxiliary Oil Pump	01
(g)	Local start-up panel	01
(h)	Minimum Re-Circulation valve	01
(i)	Base frame of Motor, VFD & Pump along with its foundation bolts	01 set
(j)	Vibration & Temperature Monitoring system	01 set
(k)	Two year O&M Spares as per clause 8.2 of this document	01 set
(l)	Special tools, tackles& devices	01 set

2. Scope of Work:

The scope of work of the Vendor shall include but not limited to:-

- Design, Engineering, Manufacturing/fabrication, Assembly, Inspection and Testing, Painting, Packing and supply as listed above
- Supervision of erection, pre-commissioning and commissioning of the equipments at site.
- Process and Mechanical Performance Guarantees of the centrifugal pump units.
- Pump shall be designed for operation at Best Efficiency Point (BEP) at normal flow of 300m³/hour.
- Variable speed hydraulic coupling shall be Voith make only
- All accessories/auxiliaries/materials, as may be required for safe and reliable start-up, smooth operation and safe shutdown as well as meeting all functional requirements.
- Successful bidder has to check & study the existing foundation for use and compatibility for the offered pump. The vendor shall provide necessary engineering details for modification of civil foundation, if required. The drawing for modification in existing foundation including details of pockets for foundation bolts, plan and elevation drawing indicating dimensions of new foundations & top level shall be given by the vendor at the initial stage.
- Grouting of foundation bolts shall be in the scope of successful bidder.

