

PRE QUALIFICATION REQUIREMENT

Ref: Tender enquiry no. 201700501/5406 due on 22.05.2017

Pre-qualification criteria for above tender enquiry are as under:

1. Vendor must have supplied Porous plug GP-3 to steel plant within last five years from date of tender opening.
2. As a supporting document of point (1) copy of Purchase order/ Purchase agreement/Invoice has to be provided by the vendor.

Note: 1. Vendor has to supply the porous plugs as per CFFP specification no. FF05035 and Drawing no. SMS/Porous Plug/ GP-3.

2. Vendor has to accept to the "Acceptance & Development Criteria" as per Annexure-1

Annexure -1

The condition for development of the item will be as follows:

(A) Operating Conditions

Type of Steel	Grade	Holding Temperature Range	Argon Flow rate	Argon Purging Duration	Liquid metal Holding capacity (Ladle Capacity)	No of porous Plugs used per Heat
Plain Carbon steel	0.3 - 1.7% Mn steel	1550-1650°C	20 Lt/Min - During Heating up to 100 Lt/min - During Deep degassing	3-15 Hours	30-70 T Ladle capacities	One porous plug per heat
Alloy steel	Mn<1%, 1-2% Cr, Mo<1.2%, 0.4-4% Ni	1550-1650°C				
Stainless steel	Mn<1%, 11-18% Cr, Mo<1.2%, Ni<8%	1550-1750°C				
Supercritical grade steel	Mn<1%, 8-10% Cr, 0.8-1.1% Mo, Ni<0.8% 0.9-1.1% W (Optional) 0.2-0.5% Nb (optional)	1550-1750°C				

(B) Acceptance and Development conditions

- a) Acceptance of the material shall be based upon Test & Guarantee Certificates and successful shop trial of Porous Plug at SMS, CFFP after receipt of material.

Procedure for Shop trial

- i) After receipt of Porous Plug it will be taken for shop trial. In shop trial every porous Plug will be used in Heats of any type of steel grade as mentioned above.
- ii) Failure of Porous Plug: Failure of Porous Plug will be said if any of following three conditions happens:
- Erosion of Porous Plug by more than 50% of its length.
 - Outer shell of Porous Plug melts or deforms after use.
 - Argon purging stops or gets affected during use.
- iii) In case any one of the Porous Plug fails during Shop trial in SMS, CFFP, the item will not be considered developed and rest of the number of Porous Plug which are unused will not be used further and will be rejected.
- iv) The number of Porous Plugs which are already used will be considered accepted but the item will be considered not developed.
- v) Item will be considered developed if all 50 no's of Porous Plug run successfully without any failure during operation at SMS, CFFP.
- vi) The Shop trial will take maximum three months from the date of receipt of Porous Plugs at CFFP.

(C) Annual Requirement of Porous Plug GP-3 for regular production:

- a) Approx. 600-800 nos per year. This is for information only.