

| 1 | Pre- qualification criteria: SI No :10,20,30 Steel Shots :SS-1000 (S-390) , SS-1180 (S460), SS-1700 (S-660). | | |
|-------|--|----------------------------|-------------------------------|
| Sl.No | DESCRIPTION | Vendor to confirm | Vendor's Reply (To be filled) |
| 1.1 | Before bulk supply, sample of (250 kgms) Steel shots SI No :10,20,30 Steel Shots :SS-1000 (S-390) , SS-1180 (S460) & SS-1700 (S-660) should be submitted. BHEL shall take 7days for testing and give clearance for despatch. | Accepted / Not Accepted | |
| 1.2 | Supplier shall submit the sample within 10 days from PO | Accepted / Not Accepted | |
| 1.3 | Delivery of first lot to be made within total of 45 days (If the submitted sample is not approved by BHEL, fresh sample shall be given for testing immediately) | Accepted / Not Accepted | |
| 1.3 | The vendor should enclose a purchase order copy from 1st Jan 2018(01.01.2018) against their experience for the supply of SI No :10,20,30 Steel Shots :SS-1000 (S-390) , SS1180 (S460), SS-1700 (S-660). | Attached / Not Attached | |
| 2 | Delivery Period: SI No :10,20,30 Steel Shots :SS-1000 (S-390) , SS-1180 (S460), SS-1700 (S-660). | | |
| 2.1 | Delivery Schedule : SI no 10: SS-1000 (S-390) 1 St Delivery 45 days from PO date : 13000Kg.,2nd Delivery 150 days from PO date :12000 Kgs. | Accepted / Not Accepted | |
| 2.2 | Delivery Schedule : SI no 20: SS1180 (S460) 1 St Delivery 45 days from PO date : 21000Kgs.2nd Delivery 150 days from PO date :20000Kgs. | Accepted / Not Accepted | |
| 2.3 | Delivery Schedule : SI no 30: SS-1700 (S-660) 1 St Delivery 45 days from PO date : 12000Kgs. 2nd Delivery 150 days from PO date :10000Kgs. | Accepted / Not Accepted | |



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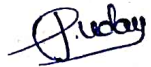
P. UDAYANAND
MANAGER
TUBULAR PRODUCTS / BPN
BHEL, TRICHY - 620 014

Technical Specification

Type and specification of steel shots: SI No :10,20,30 Steel Shots :SS-1000 (S-390) qty 25000, SS1180 (S460)- 41000 Kgs, SS-1700 (S-660) qty-22000 kgs

| SL NO | Specification | Description | Vendor to confirm | Vendor's Reply (To be filled) |
|-------|------------------------------|--|-------------------|-------------------------------|
| 1 | Application | For the surface cleaning of high alloy steel pipes and heat treated high alloy steel pipes with scales and rust for achieving surface finish of SA 2.5. | Yes / No | |
| 2 | Material | The steel shots shall be manufactured by atomizing molten steel into random sizes of steel using a suitable heat treatment procedure. | Yes / No | |
| 3 | Shape | The steel shots shall be almost solid spherical as is maximum commercially possible and shall not contain more than 5% of tails and irregular steel shots. The presence of foreign material shall not exceed 1% of weight of the sample taken. | Yes / No | |
| 4 | Chemical composition | %Carbon 0.6-1.25, %Silicon 0.2-1.1, % Manganese 1.25 max, % Sulphur 0.08 max, %Phosphorus 0.08 max. The chemical composition test report shall be submitted along with the material delivery. | Yes / No | |
| 5 | Hardness | The average hardness of the steel shots shall be 400-500 in terms of Vickers Pyramid Number (HV). | Yes / No | |
| 6 | Microstructure | On examination of steel shots under microscope at magnification of 500X, it shall reveal tempered martensitic structure. | Yes / No | |
| 7 | Density | Density of steel shots shall not be less than 7g/ml, nor contain more than 10% hollow shot | Yes / No | |
| 8 | Test report | The test for chemical composition, Density, Hardness, weight of foreign material present per unit weight of sample and microstructure shall be submitted along with the material delivery. | Yes / No | |
| 9 | Inspection | Sample submitted by supplier shall be tested by BHEL as per PQC. | Yes / No | |
| 10 | Material acceptance | In case of any deviation, for the random samples taken from the lot on receipt at BHEL stores, from the above listed specifications - it is the responsibility of the supplier to replace the lot as per the technical specifications - at the cost of the supplier within a period of two weeks (or it might lead to disqualification from the vendor list) | Yes / No | |
| 11 | Packing | The steel shots while delivery shall be packed in polyethylene lined bags (to avoid rusting due to moisture) with weight not more than 25 kg and the packing shall withstand normal handling | Yes / No | |
| 12 | during transport and storage | in multiple layers, without baggage damage. | Yes / No | |

The Bidder should submit the above documents along with the offer. Offer without the above documents will be rejected


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