

सामग्री प्रबन्धन (क्रय विभाग)

MATERIAL MANAGEMENT (PURCHASE)

सेन्ट्रल फाऊन्ड्री फोर्ज् प्लान्ट, भारत हैवी इलैक्ट्रिकल्स लिमिटेड

CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR

रानीपुर, हरिद्वार (भारत)

RANIPUR, HARIDWAR (INDIA) - 249403

Phone No.+91-1334-285326/284548, FAX No. 225892

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Ref: FF/PPX/EOI/12 Dt. 01/06/2009

Sub: EXPRESSION OF INTEREST FOR SUPPLY OF FERRO TITANIUM.

Dear Sir,

CFFP/BHEL has huge requirement for following item and thus desires Expression of Interest from interested vendors for supply of this item.

| EOI NO. | Description | Due date |
|---------------|----------------|------------|
| FF/PPX/EOI/12 | FERRO TITANIUM | 07/07/2009 |
| | | 2.00 P.M. |

You are requested to please submit your interest along with Supplier Registration Form (which can be downloaded from our web site www.bhel.com).

Kindly note that supplier registration form is mandatory requirement for processing your application against this Expression of Interest.

Thanking you.

(L.P. Badoni) Engineer (Pur)

| 1. SCOPE This technical specification governs the quality of Ferro –Titanium with following requirements. 2. APPLICATION The material shall be used as alloying addition for manufacturing of steel. 3. CONDITION OF DELIVERY A) The size should be in the range of 100-150 mm with oversize 10 %(max.) and undersize 10%(max.). B) The size should be in the range of 20-40 mm with oversize 10 %(max.) and undersize 10%(max.). COMPLIANCE WITH NATIONAL STANDARDS This specification in general complies with the requirement IS: 1468: 2000 "Specification for Ferro Titanium" as revised from time to time. 5. FREEDOM FROM CONTAMINATION The material shall be free from extraneous contamination such as slag and non metallic inclusions. 6. MANUFACTURE The process of manufacture of Ferro Titanium is left to the discretion of supplier. 7. CHEMICAL COMPOSITION When the material is analyzed in accordance IS: 1559: 1961 shall have the following composition: ELEMENT PERCENT Titanium 30 – 40 Carbon 0.15 Max. Silicon 3.0 Max Copper 0.2 Max. Sulphur 0.05 Max. Phosphorous 0.10 Max. Aluminium 2.0 Max Sulphur 0.05 Max Phosphorous 0.10 Max Aluminium 2.0 Max Sulphur 0.05 Max Phosphorous 0.10 Max Aluminium 2.0 Max Sulphur 0.05 Max Phosphorous 0.10 Max Aluminium 2.0 Max SAMPLING METHOD FOR CHEMICAL ANALYSIS The sampling of material shall be done in accordance with IS 1472-1977. 9. NAME 9. NEADOR 1. SONATURE a DATE 1. SONATURE a DAT | BONA DATE: | НЙН | | NT PURCE | त (सी.एफ.एफ.पी. | ICATION | FF 0505 Rev 01 | घ |
|--|--|--|--|--|--|--|---|-----------------|
| 3. CONDITION OF DELIVERY A) The size should be in the range of 100-150 mm with oversize 10 %(max.) and undersize 10%(max.). B) The size should be in the range of 20-40 mm with oversize 10 %(max.) and undersize 10%(max.). (FOR MULTI HOPPER SYSTEM) 4. COMPLIANCE WITH NATIONAL STANDARDS This specification in general complies with the requirement IS: 1468: 2000 "Specification for Ferro Titanium" as revised from time to time. 5. FREEDOM FROM CONTAMINATION The material shall be free from extraneous contamination such as slag and non metallic inclusions. 6. MANUFACTURE The process of manufacture of Ferro Titanium is left to the discretion of supplier. 7. CHEMICAL COMPOSITION When the material is analyzed in accordance IS: 1559: 1961 shall have the following composition: ELEMENT PERCENT Titanium 30 - 40 Carbon 0.15 Max. Silicon 3.0 Max. Copper 0.2 Max. Sulphur 0.05 Max. Phosphorous 0.10 Max. Aluminium 2.0 Max. Aluminium 2.0 Max Aluminium 3.0 - 40 Carbon 0.15 Max. Sulphur 0.05 Max. Phosphorous 0.10 Max. Aluminium 0.10 Max. Alu | efects was a dividence to the | This tecrequire | ments. | ication governs th | ne quality of Ferro – | Fitanium with fol | lowing | |
| QM NK.SAHU WORKED BY QAURAY KUMAR QMOREAD) K.K.GUPTA CHECKED BY L.K.RHANDELWAL AGREED DEPTT NAME SIGNATURE & DATE | re and t & open und habeture of white 1 of the 1 to the 1 | A) T B) T 1 4. COMPI This spe Ferro Ti 5. FREED The mate 6. MANU The pro 7. CHEMI Wh con ELL Titz Car Sili Cop Sulp Plo Ahu 8. SAMPL | The size should 10% (max.). Th | d be in the range of FOR MULTI HO ITH NATIONAL general complies wised from time to CONTAMINAT free from extrane facture of Ferro To COSITION all is analyzed in a series of the contamination of the c | of 20-40 mm with over PPER SYSTEM) STANDARDS with the requirement to time. TON ous contamination substituting is left to the secondance IS: 1559 RCENT 1-40 5 Max. 10 Max. 10 Max. 11 Max. 12 Max. 13 Max. 14 Max. 15 Max. 16 Max. 17 Max. 18 Max. 19 Max. 10 Max. 10 Max. 11 Max. 12 Max. 13 Max. 14 Max. 15 Max. 16 Max. 17 Max. 18 Max. 18 Max. 19 Max. 10 Max. 11 Max. 11 Max. 12 Max. 13 Max. 14 Max. 15 Max. 16 Max. 17 Max. 18 Max. 18 Max. 18 Max. 19 Max. 10 Max. 11 Max. 11 Max. 11 Max. 12 Max. 13 Max. 14 Max. 15 Max. 16 Max. 17 Max. 18 M | ersize 10 %(max t IS: 1468: 2000 ach as slag and not discretion of sup 1961 shall have | "Specification in metallic includes the following | te for husions. |
| क्षेत्र संस्थान मानक समिति | nan . | MPIC QM(HEAD) | K.B.SOOD K.K.GUPTA | 1 anjulan | CHECKED BY | L.K.KHANDELWAI | | and |

| 1 | संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी हरिद्वार) | FF 05058 Rev 01 | | | | | |
|---|---|--|--|--|--|--|--|
| SIGN & D | PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR) | Page 2 of 3 | | | | | |
| ON | 9. INSPECTION | | | | | | |
| ere à INVENTORY NO | CFFP/BHEL reserves the right to inspect the material after / before dispatch supplier should intimate in advance enclosing a copy of test certificate of the for inspection. Final inspection will be done at CFFP. For results of analysis and properties of material the decision of CFFP shall | e material offered | | | | | |
| преди | If the material is not found suitable according to the requirements, it shall be | replaced free of | | | | | |
| | cost by the supplier. | | | | | | |
| imited It must | 10. CLEARANCE FOR DELIVERY 10.1 For any deviation from this specification prior approval of CFFP shall 10.2 The clearance does not release the supplier from the responsibility for | ll be taken. r non-conformance | | | | | |
| COPYRIGHT AND CONFIDENTIA non this documents is the property of Bhara Heavy Bleat directly, or indirectly in any way deminental to the interest | determined later on. 10.3 Objections shall be raised in case the material does not confirm to the condition specified in specification whereby the deviations interfere to significant extent with use of the material | | | | | | |
| AND C the property any way det | 11. TEST CERTIFICATE The supplier shall furnish 4 copies of test certificates unless otherwise specified in | | | | | | |
| IGH redly in | purchase order. The test certificate must contain the following and must reach BHEL before | | | | | | |
| PYR docum or india | or along with the material. | | | | | | |
| The information on this not be used directly | 11.1 BHEL Reference 11.1.1 Material Specification. 11.1.2 Purchase Order No. 11.2 Supplier Reference 11.2.1 Supplier's name or emblem. | | | | | | |
| - K | 11.2.2 Material Batch No. and Serial No. | | | | | | |
| *.¥ | 11.2.3 Container size and weight of material11.2.4 Test Results of Chemical analysis as per clause 7. | | | | | | |
| THE R | 11.2.5 Size of material. | | | | | | |
| गीपनीय म के सम्बंधि हे कि ने हिन्छ | | (4) | | | | | |
| A 1774 | 12. PACKING &MARKING | VI 444 0 - 400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | |
| स्त्रसाधिकार एवं गोपनीय वे ध स्थल माम के क्षेत्रिका के कर्णक b स्म्य किमे से एक क्षेत्र, में कि स्टब्स के किमें ने अभिकार के | The material shall be packed suitably in airtight and moisture proof metallic drums in 50 Kgs Net wt. to prevent damage / contamination during transportation. | | | | | | |
| | Each drum/ container must be identified through a stencil mark / painted showing following details:- | | | | | | |
| इस प्रमेश आक्रमा १५ हे | Supplier's name or emblem. Batch No. / S.No Specification No / Chemical composition of ferro alloy. | | | | | | |
| * 4 | Net wt. of material / gross wt. of material. | × | | | | | |
| SIGN & | | Name of the last o | | | | | |
| INVENTORY NO. | Date: 07-07-04 WORKEDBY GAURAV KUMAR | Garres | | | | | |
| INVENT | CHECKED BY L.K. KHANDELWA | . Jun | | | | | |

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| BHEL | PLANT PURCHASE SECURION | FF 05058 | |
| | C.F.F.P. HARDWAR | PAGE: 3 of 3 | |

REVISION RECORD SHEET

| S. No. | Revision No. | Revision date | Nature of Changes |
|--------|-----------------|---------------|------------------------------------|
| 01. | 01 | 07/07/04 | - Clause modified 4,5,7,9,10,11 |
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| ISSUED: | SMS TEC | HNOLOGY | WORKED | Gavan |
|----------|----------|-------------------|----------|---------|
| REVISION | 01 | DATE: 07/07/04 | CHECKED | Sun |
| AGREED | PLANT PU | JR. SPEC.COMMTTEE | APPROVED | P.P.S.C |