

TECHNICAL SPECIFICATION FOR BORON CARBIDE POWDER

The bidders shall fill in each column whether they agree to supply the material as per the specifications given below. In case of any deviation, the bidder may attach additional sheet giving the details of the deviations. The technical specifications shall be submitted in the following format only

Sl. No.	Technical Specifications specified by Heavy Water Plant, Manuguru	Bidder shall state whether agrees to the specification
01.	<p>THE QUALITY OF NATURAL BORON CARBIDE SHALL CONFIRM TO :</p> <p><u>ITEM : 01</u> Natural Boron Carbide Powder, Particle size (on number basis) : 5μm : \geq 98% a) Isotopic Content ^{10}B : 19.5 to 20 (% atom) b) Boron Content : 75 to 77 (%w/w) c) Boron + Carbon : 98% (%w/w), Min</p> <p><u>ITEM : 02</u> Natural Boron Carbide Powder, Particle size (on number basis) : 100μm : \geq 98% a) Isotopic Content ^{10}B : 19.5 to 20 (% atom) b) Boron Content : 75 to 77 (%w/w) c) Boron + Carbon : 98% (%w/w), Min</p> <p><u>ITEM : 03</u> Natural Boron Carbide Powder, Particle size: 1 mm to 2 mm a) Isotopic Content ^{10}B : 19.5 to 20 (% atom) b) Boron Content : 75 to 77 (%w/w) c) Boron + Carbon : 98% (%w/w), Min</p>	
02.	<p>LIMITS FOR IMPURITIES (ITEM : 01 TO 03)</p> <p>a) Iron (Fe) : 1.0 (%w/w) Maximum b) Calcium (Ca) : 0.3 (%w/w) Maximum c) Magnesium (Mg) : 0.15 (%w/w) Maximum d) Aluminum (Al) : 0.3 (%w/w) Maximum e) Silica : 0.5 (%w/w) Maximum f) Fluoride : 25 ppm Maximum g) Chloride : 75 ppm Maximum</p>	
03.	<p>Particle size distribution & quantity to be supplied: <u>ITEM : 01</u>, Particle size (on number basis) : 5μm : \geq 98% - 30 kg <u>ITEM : 02</u>, Particle size (on number basis) : 100μm : \geq 98% - 15 kg <u>ITEM : 03</u> Particle size : 1 mm to 2 mm – 15 kg</p>	
04.	<p>The material shall be supplied to Heavy Water Plant Manuguru on door-delivery basis.</p>	
05.	<p><u>Weighment:</u> The weighment carried out by HWP, Manuguru shall be final for payment.</p>	
07.	<p><u>Transportation:</u> a. Material shall be sent on door delivery basis. b. Bidder shall indicate distance between the bidder's factory and HWP (Manuguru). c. Bidder shall indicate approximate transport time.</p>	
08.	<p><u>Packing of the material:</u> Natural Boron carbide (Item 01 to 03) shall be packed in 1 KG net weight packs which must be weatherproof standard packing. The entire packing should ensure that there shall be no dislodgement of material or deterioration in the quality of material during transportation or storage at HWP(M) site.</p>	
09.	<p><u>Delivery schedule :</u> The supplies shall be made within 45 days from the date of placing P.O.</p>	

Signature of Bidder

10.	Certification The vendor shall furnish the following data: a. Manufacturer's lab test certificate of the material with complete analysis.	
11.	Manufacturer Status The bidder shall furnish the following details without which the quotation will not be considered. These details can be given on a separate sheet also along with the quotation. a. Firm Category : Actual Manufacturer / Trader / Importer. b. If firm category is not actual manufacturer , Firm shall give the name, and address of their principal supplier. The principal supplier should clearly state that they would guarantee the supply commitments being entered by their traders. c. Details of supplies already made earlier, if any.	

Signature of Bidder