

SUPPLEMENTAL/BID BULLETIN

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ADDENDUM NO. 1

This Supplemental Bid Bulletin No. 1 is being issued to further clarify, modify and amend items, specifications in the Bid Documents to address key issues for the “**SUPPLY OF LABOR AND MATERIALS FOR INDUCTION FURNACE SYSTEM AND ITS ACCESSORIES**”

<u>TECHNICAL SPECIFICATIONS</u>	
ORIGINAL	REVISION
INDUCTION FURNACE SYSTEM	
a. General	
x. Delivery Period: 130 cd	x. Delivery Period: 180 cd
c. Power Unit	
v. Maximum kVA demand of 150 kVA	v. Maximum demand of 175 kVA
f. Furnaces	
v. 4.) New requirement	v. 4.) 2 pcs. Crucible pot for the 50 kg Furnace
v. 5.) New requirement	v. 5.) Silica and backing lining for crucible pot
<u>B. Support System</u>	
a.i.) 1 unit aluminum melt treatment system for degassing, fluxing and refining	a.i.) 1 unit aluminum melt treatment system for degassing, fluxing and refining (REMOVE) REPLACE WITH: a.1.) 1 unit Reduced Pressure Tester for Aluminum, 220V, 60 Hz
a.ii.) 1 unit copper alloy treatment system for degassing, fluxing and deoxidizing	a.ii.) 1 unit copper alloy treatment system for degassing, fluxing and deoxidizing (REMOVE)
d.iii.) Additional 1 unit in-line stainless steel pumps (SS304 or SS316), for emergency	d.iii.) Additional 2 unit in-line stainless steel pumps (SS304 or SS316), for emergency
<u>C. Installation</u>	
d.ii.) Additional piping for connection of existing cooling tower to new cooling tower	d.ii.) Additional piping for connection of existing cooling tower to new cooling tower (REMOVE)

D. Training, Commissioning, Warranty and Other Requirements

d.i.) New requirement	d.i.) At least 3 sets of charge materials for melting SS 316 which may be any of the options presented below: a. Option 1: Use of mild steel scrap: 1 set of charge materials comprise of the following components and respective quantities: i. At least 59 kg mild steel scrap ii. At least 26 kg low carbon ferro chrome ferroalloy iii. At least 12 kg nickel iv. At least 3 kg low carbon ferro molybdenum b. Option 2 : Use of SS 316 scrap: 1 set of charge material comprise of the following components and respective quantities: i. At least 100 kg SS 316 scrap.
d.ii.) New requirement	d.ii.) At least 3 sets of charge materials for melting SS 316 which may be any of the options presented below: a. Option 1: Use mild steel scrap: 1 set of charge material comprise of the following components and respective quantities: i. At least 29.5 kg mild steel scrap ii. At least 13 kg low carbon ferro chrome iii. At least 6 kg nickel iv. At least 1.5 kg low carbon ferro molybdenum ferroalloy b. Option 2: Use of SS 316 scrap: 1 set of charge material comprise of the following components and respective quantities: i. At least 50 kg SS 316 scrap
d.iii.) New requirement	d.iii.1.) At least 3 sets of charge materials for the verification of aluminum melting performance. One (1) set of charge materials comprise of the following components and respective quantities: a. At least 17 kg aluminum scrap b. At least 1 kg covering and drossing off flux c. At least 1 pc degassing tablet

	<p>d.iii.2) At least 3 sets of charge materials for the verification of copper alloy melting performance. One (1) set of charge materials comprise of the following components and respective quantities:</p> <p>a. At least 50 kg brass or bronze scrap b. At least 1 kg covering flux c. At least 2 pc deoxidizing tubes d. At least 1 pc hydrogen remover tablets</p>
j. New requirement	j. Supplier must have supplied the same equipment (Induction Furnace System) locally within the last 2 years. A list of local installation must be provided.

This shall form an integral part of the Bidding Documents for the “**SUPPLY OF LABOR AND MATERIALS FOR INDUCTION FURNACE SYSTEM AND ITS ACCESSORIES**”

For the guidance and information of all concerned.

Sgd.
MS. AUREA T. MOTAS
 BAC Chairman
 Metals Industry Research and Development Center