



**FINAL SCOPE OF SUPPLY PLATFORM TYPE WEIGHING SCALE
(500KG capacity)**

BHARAT HEAVY ELECTRICAL LIMITED
Heavy Power Equipment Plant, Ramachandrapuram
Hyderabad - 502 032. INDIA

Vendor Details & Comments:

NAME OF THE SUPPLIER:

ADDRESS OF THE SUPPLIER :

TELEPHONE NOS.:

FAX NOS.:

E-MAIL ADDRESS :

Sl. No.	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
1	Brief Description: -			
1.1	Digital Electronic Platform Type Weighing Scale/Balance of 500Kg Capacity as per ISI Marked Electronic Platform Scales: Conforming to IS: 9281 (Pt.-1 & 2)/1979, IS: 9281 (Pt.-3) & IS:-9281 (Pt.-4) 1983 (reaffirmed 2006) with upto date amendments.	Vendor to confirm		
1.2	Digital Electronic Platform Type is required to measure the weight of raw materials like ferrous & Non Ferrous Materials before melting the raw material in the furnace.	Vendor to confirm		
1.3	The weighing balance shall be robust in construction,equipped with dust proof mechanism with proper sealing to be provided so as to prevent dust entering into said equipment.Weighing balance should be designed in such a way that it should suitable to operate in the foundry environment consists of dust,smoke and fumes.	Vendor to confirm		
1.4	Model No:	Vendor to Specify		
	a)Model no as approved by GOI	Vendor to confirm		
	b)Quantity Required:1No	Vendor to confirm		
2	Technical Details: -			
2.1	Capacity of Scale:	Vendor to Specify		
	a)Capacity of Scale: 0 - 500 Kg	Vendor to confirm		
2.2	Platform Details			
	a)Platform Size:750 x 750 mm(+/- 10%), made up of minimum 3 mm thickness steel and powder coated	Vendor to confirm		
	b)Construction: Steel plate rust proof protection.	Vendor to confirm		
2.3	Type of Scale:			
	a)Type of Scale:- Micro controller based [Digital].	Vendor to confirm		
2.4	Resolution & Accuracy:			
	a).Graduation: 25gm/50gm/100gms	Vendor to Specify		
	b).Accuracy: 10gms/25gms/50gms	Vendor to confirm		
2.5	Power Source:			
	The Weighing scale should have facility to be powered/operated from both sources i.e from power adapter and also from battery source.	Vendor to confirm		
	a). Power Supply for external charge: 230 V, 50 Hz,AC.	Vendor to confirm		
	b). Power Source: Minimum 6Volts/4.5AH rechargeable battery to be provided. Life (AH) to be indicated by the supplier	Vendor to confirm		
	c).In Built rechargeable battery backup for continuous operation.	Vendor to confirm		
2.6	Safety Factors			

Sl. No.	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
	a). Over Load Safety Factor: Over Load protection of 500%(1:5).	Vendor to Specify		
	b). Overload display indication: at 200 % of Scale capacity.	Vendor to Specify		
	c)Weighing scale should be protected from overload & Shock.	Vendor to confirm		
	d)Safety guard must be provided to prevent damage to display unit during loading.	Vendor to confirm		
2.7	Technical Features:			
	a)The scale should have Memory Accumulation Feature.	Vendor to confirm		
	b)The scale should be made up of heavy structure platform with powder coated frames.	Vendor to confirm		
	c)The Scale should have inbuilt rechargeable battery back up minimum of 8 hrs & Supplier to indicate charging time.	Vendor to confirm & Vendor to specify the charging time		
	d). Digital Display: Bright RED LED display with 6 digit minimum, Size: Minimum height 50 mm ,where digital display monitor to be fixed on rugged pole stand.	Vendor to confirm		
	e)Type of load cell: Stainless steel, Silicon sealed water tight with IP67/IP68 protection and to be Environmentally protected Load Cell.	Vendor to confirm		
	f)Instrument Case: Gasketed dust proof case.	Vendor to confirm		
	g)Protection from metal: Insulated protection shield to be provided.	Vendor to confirm		
	h)Following facilities are to be provided: -			
	i) 100% push button zero.	Vendor to confirm		
	j) Self testing diagnostics.	Vendor to confirm		
	k) Low battery Indication.	Vendor to confirm		
	l) Separate insulated heat protection shield.	Vendor to confirm		
	m).The scale should have LED indications for A.C. On, Nett/Gross Weight, Zero,Tare, Battery Low,Enter Key,Hold key function,On/Off.	Vendor to confirm		
	n) Zero key is needed & Tare Function to be provided.	Vendor to confirm		
	o)No of load cells(weight Censor).	Vendor to specify		
	p)RS232 interface to be provided.	Vendor to confirm		
	q)Power Consumption:	Vendor to specify		
2.8	Spares			
	The following accessories shall be quoted separately: -	Vendor to confirm		
	a) Extra Battery pack	Vendor to confirm		
	b) Additional load cell	Vendor to confirm		
	c) Additional display unit	Vendor to confirm		
3	DOCUMENTATION:			
	a)Technical leaf let / catalogue, overall dimensions of the shall be furnished along with the quotation.	Vendor to confirm		
	b)Detailed drawing of equipment shall be sent to BHEL for approving the same, before manufacturing the equipment.	Vendor to confirm		
4	Five sets of operation and maintenance manuals shall be furnished along with equipment.	Vendor to confirm		
5	Customers reference list shall be furnished along with offer for similar equipment.	Vendor to confirm		
6	Installation ,Commssioning and prove out of the equipment at BHEL works is suppliers responsibility.	Vendor to confirm		
7	Guarantee:			
	Guarantee as per BHEL standard Terms & conditions	Vendor to confirm		

Sl. No.	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
8	The quotation shall contain point to point detailed explanation for every point mentioned in the specification.	Vendor to confirm		
9	Calibration test certificates shall also be furnished	Vendor to confirm		
10	Two part bid system shall be followed.	Vendor to confirm		
11	a) The above points are indicative, but not exhaustive. Hence any other essential accessories / parts that need to be incorporated to ensure safe operation with robust mechanism having all features for the ease of the operators to be considered and provided.	Vendor to confirm		



**FINAL SCOPE OF SUPPLY PLATFORM TYPE WEIGHING SCALE
(1000KG capacity)**

BHARAT HEAVY ELECTRICAL LIMITED
Heavy Power Equipment Plant, Ramachandrapuram
Hyderabad - 502 032. INDIA

Vendor Details & Comments:

NAME OF THE SUPPLIER:

ADDRESS OF THE SUPPLIER :

TELEPHONE NOS.:

FAX NOS.:

E-MAIL ADDRESS :

Sl. No.	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
1	Brief Description: -			
1.1	Digital Electronic Platform Type Weighing Scale/Balance of 1000Kg Capacity as per ISI Marked Electronic Platform Scales: Conforming to IS: 9281 (Pt.-1 & 2)/1979, IS: 9281 (Pt.-3) & IS:-9281 (Pt.-4) 1983 (reaffirmed 2006) with upto date amendments	Vendor to confirm		
1.2	Digital Electronic Platform Type is required to measure the weight of raw materials like ferrous & Non Ferrous Materials before melting the raw material in the furnace.	Vendor to confirm		
1.3	The weighing balance shall be robust in construction ,equipped with dust proof mechanism with proper sealing to be provided so as to prevent dust entering into said equipment.Weighing balance should be designed in such a way that it should suitable to operate in the foundry environment consists of dust,smoke and fumes.	Vendor to confirm		
1.4	Model No:	Vendor to Specify		
	a)Model no as approved by GOI	Vendor to confirm		
	b)Quantity Required:1No	Vendor to confirm		
2	Technical Details: -			
2.1	Capacity of Scale:	Vendor to Specify		
	a)Capacity of Scale: 0 - 1000 Kg	Vendor to confirm		
2.2	Platform Details			
	a)Platform Size:1000 x 1000 mm(+/- 10%), made up of minimum 3 mm thickness steel and powder coated.	Vendor to confirm		
	b)Construction: Steel plate rust proof protection	Vendor to confirm		
2.3	Type of Scale:			
	a)Type of Scale:- Micro controller based [Digital].	Vendor to confirm		
2.4	Resolution & Accuracy:			
	a).Graduation: 100gm/200gm	Vendor to Specify		
	b).Accuracy: 10gm/25gm/50gm/100gm	Vendor to confirm		

Sl. No.	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
2.5	Power Source:			
	The Weighing scale should have facility to be powered/operated from both sources i.e from power adapter and also from battery source.	Vendor to confirm		
	a). Power Supply for external charge: 230 V, 50 Hz	Vendor to confirm		
	b). Power Source: 12 Volts/12AH rechargeable battery. Life (AH) to be indicated by the supplier	Vendor to confirm		
	c).In Built rechargeable battery backup for continuous operation.	Vendor to confirm		
2.6	Safety Factors			
	a). Over Load Safety Factor: Over Load protection of 500%(1:5)	Vendor to Specify		
	b). Overload display indication: at 200 % of Scale capacity	Vendor to Specify		
	c)Weighing scale should be protected from overload & Shock	Vendor to confirm		
	d)Safety guard must be provided to prevent damage to display unit during loading	Vendor to confirm		
2.7	Technical Features:			
	a).The scale should have Memory Accumulation Feature.	Vendor to confirm		
	b)The scale should be made up of heavy structure platform with powder coated frames.	Vendor to confirm		
	c)The Scale should have inbuilt rechargeable battery back up minimum of 8 hrs & Supplier to indicate charging time.	Vendor to confirm & Vendor to specify the charging time		
	d). Digital Display: Bright RED LED display with 6 digit minimum, Size: Minimum height 50 mm ,where digital display monitor to be fixed on rugged pole stand.	Vendor to confirm		
	e). Type of load cell: Stainless steel, Silicon sealed water tight with IP67/IP68 protection and to be Environmentally protected Load Cell	Vendor to confirm		
	f). Instrument Case: Gasketed dust proof case	Vendor to confirm		
	g). Protection from metal: Insulated protection shield to be provided	Vendor to confirm		
	h). Following facilities are to be provided: -			
	i) 100% push button zero.	Vendor to confirm		
	j) Self testing diagnostics	Vendor to confirm		
	k) Low battery Indication	Vendor to confirm		
	l) Infrared lenses for remote control	Vendor to confirm		
	m) Separate insulated heat protection shield	Vendor to confirm		
	o) The scale should have LED indications for A.C. On, Nett/Gross Weight, Zero,Tare, Battery Low,Enter Key,Hold key function,On/Off.	Vendor to confirm		
	p) Zero key is needed & Tare Function to be provided	Vendor to confirm		
	q) No of load cells(weight Censor)	Vendor to specify		

Sl. No.	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
	r) RS232 interface to be provided.	Vendor to confirm		
	s) Power Consumption:	Vendor to specify		
2.8	Spares			
	The following accessories shall be quoted separately: -	Vendor to confirm		
	a) Extra Battery pack	Vendor to confirm		
	b) Additional load cell	Vendor to confirm		
	c) Additional display unit	Vendor to confirm		
3	DOCUMENTATION:			
	a) Technical leaf let / catalogue, overall dimensions of the shall be furnished along with the quotation.	Vendor to confirm		
	b) Detailed drawing of equipment shall be sent to BHEL for approving the same, before manufacturing the equipment.	Vendor to confirm		
4	Five sets of operation and maintenance manuals shall be furnished along with equipment.	Vendor to confirm		
5	Customers reference list shall be furnished along with offer for similar equipment.	Vendor to confirm		
6	Installation ,Commssioning and prove out of the equipment at BHEL works is suppliers responsibility.	Vendor to confirm		
7	Guarantee:			
	Guarantee as per BHEL standard Terms & conditions	Vendor to confirm		
8	The quotation shall contain point to point detailed explanation for every point mentioned in the specification.	Vendor to confirm		
9	Calibration test certificates shall also be furnished	Vendor to confirm		
10	Two part bid system shall be followed.	Vendor to confirm		
11	a) The above points are indicative, but not exhaustive. Hence any other essential accessories / parts that need to be incorporated to ensure safe operation with robust mechanism having all features for the ease of the operators to be considered and provided.	Vendor to confirm		



**TECHNICAL SPECIFICATION FOR SUPPLY ELECTRONIC CRANE SCALE
(5 T capacity)**

BHARAT HEAVY ELECTRICAL LIMITED
Heavy Power Equipment Plant, Ramachandrapuram
Hyderabad - 502 032. INDIA

Vendor Details & Comments:

NAME OF THE SUPPLIER:

ADDRESS OF THE SUPPLIER :

TELEPHONE NOS.:

FAX NOS.:

E-MAIL ADDRESS :

Sl. No	Description for BHEL Requirement	Specified/To be Confirmed	Offered	Deviation (IF ANY)
1	Brief Description: -			
	Portable Electronic Crane Weighing Scale/Balance of 5 T Capacity[Crane Hook Hanging Type with wireless display] is required to measure the weight of molten Ni-Hard, Grey Iron & Steel etc before pouring into permanent moulds and also in the furnace.	Vendor to confirm		
2	Technical Details: -			
	i). Capacity of Scale: 0 - 5000 Kg	Vendor to confirm		
	ii).Type of Scale:- Micro processor based [Digital]	Vendor to confirm		
	iii). Graduation: 500 gm/ 1Kg/2kg	Vendor to specify		
	iv). Safety Factor: 500%	Vendor to specify		
	v). Overload display indication: at 105 % of Scale capacity	Vendor to confirm		
	vi). Construction: Steel plate protection	Vendor to confirm		
	vii). Type of load cell: Stainless steel, Silicon sealed water tight with IP67 protection	Vendor to confirm		
	viii). Instrument Case: Gasketted dust proof case	Vendor to confirm		
	ix). Protection from Metal splashes: Poly Carbonate plexi glass	Vendor to confirm		
	x). Protection from heat: Insulated heat protection shield	Vendor to confirm		
	xi). Power Source: 12 Volts/12AH rechargeable battery. Life (AH) to be indicated by the supplier	Vendor to confirm		
	xii). Power Supply for external charge: 230 V 50 Hz	Vendor to confirm		
	Supplier to indicate charging time	Vendor to confirm		
	xiii). Digital Display: Bright Red LED 50 mm display.	Vendor to confirm		
	xiv). Following facilities are to be provided: -	Vendor to confirm		
	a) 100% push button zero.	Vendor to confirm		
	b) Self testing diagnostics	Vendor to confirm		
	c) Low battery Indication	Vendor to confirm		
	d) Infrared lenses for remote control	Vendor to confirm		
	e) Separate insulated heat protection shield	Vendor to confirm		
	f) Hand held remote zeroing device.	Vendor to confirm		
	xv). The 5T capacity electronic crane scale shall be complete with the following: -	Vendor to confirm		
	a) Forge hook and Eye of atleast 15T capacity	Vendor to confirm		
	b) Battery charger	Vendor to confirm		
	xvi).The Digital electronic weighing balance to be operated from a minimum distance of 10meters with the help of remote.	Vendor to confirm		
	xvii) Zero key is needed	Vendor to confirm		
	xviii) The following accessories shall be quoted separately: -	Vendor to confirm		
	a) Extra Battery pack	Vendor to confirm		
	b) Additional load cell	Vendor to confirm		
	c) Additional display unit	Vendor to confirm		
	d) Additional remote control [Total two nos of remote controls]	Vendor to confirm		
	xix) Technical leaf let / catalogue, overall dimensions of the shall be furnished along with the quotation.	Vendor to confirm		
3	DOCUMENTATION:	Vendor to confirm		
3.1	Detailed drawing of equipment shall be sent to BHEL for approving the same, before manufacturing the equipment.	Vendor to confirm		
4	Five sets of operation and maintenance manuals shall be furnished along with equipment.	Vendor to confirm		
5	Customers reference list shall be furnished along with offer for similar equipment.	Vendor to confirm		
6	Installation ,Commssioning and prove out of the equipment at BHEL works is suppliers responsibility.	Vendor to confirm		
7	Guarantee:	Vendor to confirm		
7.1	Guarantee as per BHEL standard Terms & conditions	Vendor to confirm		
8	The quotation shall contain point to point detailed explanation for every point mentioned in the specification.	Vendor to confirm		
9	Calibration test certificates shall also be furnished	Vendor to confirm		
10	Two part bid system shall be followed.	Vendor to confirm		
11	The above points are indicative, but not exhaustive. Hence any other essential accessories / parts that need to be incorporated to ensure safe operation with robust mechanism having all features for the ease of the operators to be considered and provided.	Vendor to confirm		