

LS/NKJ

Annexure

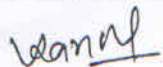
Req. No. 66874705 dtd 04/04/2014

Technical specification of Induction Heater model HIR – 40 KVA:

Model	Inventum Induction Heater Model 'HIR' 40 or similar
Power Supply	
Voltage	440 V ± 10% , 50 Hz ± 10%
Nominal Current	90 Amps. (40 KVA)
Output	Voltage : 40 - 60 V Current 800 Amp (max) at 50 V (40 KVA)
Capacity	40 KVA
Rating	100% Continuous
Cooling	Forced Air Cooling of the mains Transformer and the coolant. forced feed cooling of the Induction coil or air induction coil cooling.
Cooling Insulation	Fibre glass reinforced (B Class) hermetically sealed
Extraction	Built in spring loaded lever operated pools.
Heating mode	Temperature & Time (as per selection mode)
Temperature Controls	0 to 250° C (Max) using microprocessor based controls adjustable in steps of 1° C Sensing Accuracy ± 5° C.
Time Controls	0 to 9.99 minutes adjustable steps of 0.01 minute. Accuracy ± 2%
Control cabinet	Control cabinet of modern construction housing having: (i) Main Transformer. (ii) Microprocessor based electronic control for continuous monitoring of critical parameters and safety devices. (iii) Electrical switch gear. (iv) Analog meter & LED display of set and operational parameters. (v) Intergral force feed Air/ Fluid cooling system. (vi) Feather touch key board for setting operating parameter.
Induction coils	Coil of suitable sizes having following features: (i) Low voltage hermetically sealed coil. (ii) Cycle start / stop switch. (iii) Emergency power off switch for remote operations. (iv) Designed for guided flux flow path. (v) Thermal protection device to shut off the unit if the temperature of the coil or coolant exceeds the set limit. (vi) No ring monitoring device. (vii) Built in spring loaded lever operated pools.
Connecting cables with control channels	Cable of 5 meter length & rating 900 Amp, having dry type quick release coupling on both end suitable to connect & disconnect induction coil without loss of coolant.
Special features & safety devices	Soft start & auto ramping. No surge in current. Auto shut off in case of failure of cooling system. Low level cooling indicator. MCB for overload protection. Auto demagnetizing after every heating cycle. Residual magnetism less than 2 Amp/cm.


ADEE/TRS/NKJ


 04/04/14
Sr. DEE/TRS/NKJ


SSE/Store
 वरिष्ठ अनुभाग अभियंता
 भण्डार/विद्युत लोको शेड/न.क.जं.
 Senior Section Engineer
Store/ELS/TRS/New Katni Jr.

सहा. मण्डल विद्युत अभियंता (क.च.स्टा)
 विद्युत लोकोशेड, नई कांठी जं. (प.म.रेल)
 Asstt. Divisional Electrical Engineer (T.R.S.)
 Electrical Loco Shed New Katni Jr. (W.C.R.)

वरि.मण्डल विद्युत अभियंता (क.च.स्टा.)
 विद्युत लोको शेड, नई कांठी जं. (प.म.रेल)
 Sr. Divisional Electrical Engineer (T.R.S.)
 Electrical Loco Shed New Katni Jr. (W.C.R.)

Annexure-II

To be submitted by the firm along with offer-

Tender specification as per Annexure-I	Specification quoted by the firm	Deviation if any with clarification

Signature of firm's