

Equipment Specification Data Sheet

Equipment Name: Hot plate

Document No.: DS-HTP 01

Revision: 00

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu


Block Code	Block Name	Identification No.	Capacity	Quantity
QC	Admin, QA & QC	Q1-HTP 01, 02, 03	-	3


NNE Pharmaplan India Limited

Name	Designation	Signature	Date
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HLL Biotech Limited

Name	Designation	Signature	Date
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Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
nne pharma plan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	Hot plate
	Project #	120310
	Document #	DS-HTP 01
		
1	Process requirements	
1.1	Hot plates with stirres shall be used for heating the soutines and mixing the heated liquid for homogeneity	
2	Equipment ID	
2.1	Q1-HTP 01,02,03	
3	Technical Specification	
3.1	Hot plate	
3.2	Temperature range	30 to 500 °C
3.3	Atemperature accuracy	±1 °C
3.4	Resolution	±1 °C
3.5	Sensor Type	PT100 (Vendor to confirm)
3.6	Temperature Display	LED
3.7	Heater Power (Watt)	Vendor to confirm
3.8	Plate dimension	Vendor to confirm
3.9	Stirrer	
3.10	Type	Electromagnetic stirrer
3.11	Stirrer Speed	100 - 2000 rpm (Client to confirm)
3.12	Maximum stirring capacity	10 L
3.13	PMDC motor for high torque	Yes
4	Material of Construction	
4.1	Top plate	GMP compliant (SS, ceramic or equivalent)
4.2	Body	Vendor to confirm
5	Specific Equipment requirment	
5.1	Microprocessor control feed back shall be considered	
5.2	Power indicator should illuminate when the equipment is coonected properly to the power supply	
5.3	Hot warning light should be active when plate is hot even if the equipment is plugged off.	
5.4	Hot warning light should flash once the temperature is reached 50 °C	
5.5	Top plate should be acid and Alkali resisitant and easy to clean	

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5.6	Top plate should be flat for uniform and stable heating		
5.7	Three display sysytem for Heat, Stiring speed and time shall be considered		
5.8	The equipment should provide a better speed regulation even with small volumes and low speeds		
5.9	User programmable pre set buttons to recall upto three temperature/ stirring speeds		
5.10	Base should be levelled properly and strongly to provide stability during the operations		
6	Other requirement		
6.1	Training and demo for user on operation and cleaning to be provided		
7	Regulatory aspects		
7.1	CE certification		
8	Safety requirements		
8.1	Proper earthing is necessary		
8.2	Cord retention bracket should be considered to prevent loose cord connect to the hot plate		
9	Documents		
9.1	Following documents, but not limited to these, are expected from the vendor as part of the supply package in hard copy as well as editable electronic file		
9.3	Operation and maintenance manuals shall be provided along with IOQ documents during installation at site		
9.4	Warranty Letter for Minimum 1 year from the date of supply.		
9.5	Vendor should provide list of standard spare parts with ordering information.		
9.6	NPL traceable calibration certificates and calibration procedures		
9.7	Vendor should provide list of change parts (if applicable) with ordering information		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	IKA, Thermofischer Scientific, Cole Parmer		
	NOTE: Accurate size and technical specification need to be mentioned by the vendor		

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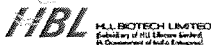
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TABLE NO: 1

Equipment ID	Block Name	Room Name	Room No	Room dimension in mm	Room height in mm
Q1 HTP 01-02	Admin, QA & QC	Media Preparation	Q1S052	-	-
Q1 HTP 03	Admin, QA & QC	Chemical lab	Q1S022	-	-

Table-2: Change Log

Date	Name	Revision	Section	Change/Comment
19-10-2015	Niharika Ruhela	00	-	New document

Table-3: Annexure

Not applicable

