



Bharat Heavy Electricals Limited

(A Govt. of India undertaking)

Boiler Auxiliaries Plant, Ranipet – 632406, Tamilnadu.

Purchase Department

BAP: PUR:UTY:1840202/DBSERVER:Amend-1

Dt:07.06.2014

Subject	Tender Change Notice (TCN) – 01
Job	Supply, installation, configuration, testing and maintenance of Server equipments and licenses at BHEL Ranipet
Ref:	1. Tender Notice: BAP: PUR:UTY: 1840202:DBSERVER Dated:10.05.2014 2. BHEL's NIT_17677 dt. 10.05.2014

Pre bid meeting clarifications

S.No	CLAUSE NO.	VENDORS QUERY	BHEL REPLY
1.	5.14	Permission for site survey	Permissible for site survey
2.		OTDR submission for Fibre cable connectivity whether before bid opening	OTDR report can be given after PO
3.	5.2 S.No.1	Monolithic is a legacy naming, is it ok to assume that we could propose latest Enterprise class server.	If, It shall be possible to configure the system as a single partition, it is OK.
4.	5.2 S.No.3	Please confirm if the certificate letter from the OEM is acceptable for the claimed TPM performance.	Not accepted. Bidder to comply BHEL tender requirement.
5.	5.3	Is this 4TB usable capacity or raw?	Usable capacity
6.	–	Port Trunking licenses would be recommended for ISL connectivity between sites. Request BHEL to add this specification to the SAN Switches.	Bidder has to consider necessary licenses required for SAN replication between DC and DR at BHEL Ranipet
7.	5.13 S.No 1a	Need clarity on the 1/10Gig port required, either one gig or 10gig SM is required?	Switch must support both 1Gig and 10Gig
8.	5.13 S.No 1b	The switch backplane bandwidth at minimum should be 140 Gbps fabric. The switch must support minimum 101 Mpps maximum forwarding bandwidth. The required forwarding rates are based 64 bytes packet length	The switch backplane bandwidth at minimum should be 140 Gbps fabric. The switch must support minimum 65Mpps maximum forwarding bandwidth. The required forwarding rates are based 64 bytes packet length
9.	5.13 S.No 1g	The switch must support redundant internal / external power supply.	Not accepted. Bidder to comply BHEL tender requirement.
10.	5.13 S.No 3b	The switch must support QoS access control lists (ACL) on all ports to ensure proper policing and marking on per	Not accepted. Minimum 4 Queues per port must be supported for QoS implementation. Hence 8 Queues per port is also acceptable.

		packet basis using ACLs. Upto 8 queues per port must be supported for QoS implementation.	
11.	3.14	Lease agreement to support tripartite also	Accepted.
12.	2.2.2.4	Orders executed on Lease /outright to be included in first line	Accepted and revised in amendment.
13.	4.36	Signature of the Bidder Page 44 of 83 documentary evidence – no such page available	Typographical error. Corrected.
14.	4.9	Project completion to be extended to 180 days from PO date.	Accepted.
15.	5.5 S.No 6	LTO 6 tape media with 3TB uncompressed storage to be modified as 2.5 TB	Clause is revised as Shall supply 100 labeled, blank new LTO-6 tape media with each tape library; each with minimum 2.5 TB uncompressed storage capacity.
16.	5.7	Clarify the Heavy Duty racks are Server OEM racks	OEM racks
17.	5.13	It is mentioned in the RFP that necessary pigtail, patch chord etc to be supplied by vendor but there is no line item in the price bid BOQ	To be included along with LAN switches
18.	5.10	<ol style="list-style-type: none"> 1. Kindly clarify whether the required biometric reader is with built-in controller or only reader required. 2. If only reader required what is the kind of output. 3. If reader with controller, do we need to provide software for the same or to be integrated with your existing software. 4. If to be integrated with your existing system, require the details of the same. 5. If the software to be a part of new system, then do we need to quote for server and client PCs. 6. You had asked for 2 biometric readers - is this for IN & OUT of one door or it is for 2 doors 7. If the reader is required for only IN, then what is required for OUT (Reader or Exit Switch) 8. We require technical specification for reader. 	<ol style="list-style-type: none"> 1. Yes biometric reader must come along with built-in controller 2. Answered as above 3. Yes. New software has to be provided by the bidder. 4. No 5. No. BHEL will provide a PC 6. For 2 doors 7. Refer revised specification 8. Revised specification is attached in the corrigendum and given below.
19.	5.12	Whether onsite support is required for maintaining KBPCES	1 year offsite support is required after migration completion.

Amendment in tender specification

S.No	CLAUSE NO.	Existing	Revised
1	2.2.1.3	<p>Must have executed at least 3 (three) orders on lease in the last 5 years in India having total lease / outright value of minimum Rs 2.8 crores in each order.</p> <p>or</p> <p>Must have executed at least 2 (two) orders on lease in the last 5 years in India having total lease / outright value of minimum Rs 3.5 crores in each order</p> <p>Or</p> <p>Must have executed at least one order on lease in the last 5 years in India having total lease / outright value of minimum Rs 5.6 crores in each order</p> <p>Bidder shall submit documentary evidence to support this.</p>	<p>Must have executed at least 3 (three) orders on lease/outright in the last 5 years in India having total lease / outright value of minimum Rs 2.8 crores in each order.</p> <p>Or</p> <p>Must have executed at least 2 (two) orders on lease/outright in the last 5 years in India having total lease / outright value of minimum Rs 3.5 crores in each order</p> <p>or</p> <p>Must have executed at least one order on lease/outright in the last 5 years in India having total lease / outright value of minimum Rs 5.6 crores in each order</p> <p>Bidder shall submit documentary evidence to support this.</p>
2	2.2.2.4	<p>Must have executed at least 3 (three) orders on lease in the last 5 years in India having total lease / outright value of minimum Rs 2.8 crores in each order.</p> <p>or</p> <p>Must have executed at least 2 (two) orders on lease in the last 5 years in India having total lease / outright value of minimum Rs 3.5 crores in each order</p> <p>or</p> <p>Must have executed at least one order on lease in the last 5 years in India having total lease / outright value of minimum Rs 5.6 crores in each order</p> <p>Authorized partner shall submit documentary evidence to support this.</p>	<p>Must have executed at least 3 (three) orders on lease/outright in the last 5 years in India having total lease / outright value of minimum Rs 2.8 crores in each order.</p> <p>or</p> <p>Must have executed at least 2 (two) orders on lease/outright in the last 5 years in India having total lease / outright value of minimum Rs 3.5 crores in each order</p> <p>or</p> <p>Must have executed at least one order on lease/outright in the last 5 years in India having total lease / outright value of minimum Rs 5.6 crores in each order</p> <p>Authorized partner shall submit documentary evidence to support this.</p>
3	3.15.4 c	—	<p>The Vendor shall also post on-site operations engineers to run the Computer systems during round-the-clock 3-shift operations of both the Primary and the Secondary site. Three Engineers are required to support the three shift operations. These engineers shall be at least Diploma holders in Computer Science/Communications with one year experience</p>
4	3.15.5	<p>Vendor shall arrange for boarding, lodging and logistics of onsite OEM certified engineer</p>	<p>Vendor shall arrange for boarding, lodging and logistics of onsite OEM engineer and operations engineers</p>

5	4.2 a	The bidder shall closely peruse all the clauses, specifications, requirements and drawings, etc., indicated in the tender documents, before quoting. Should the bidder have any doubt about the meaning of any portion of the tender specifications or find discrepancies or omissions in the specifications or if the tender documents are found to be incomplete or require clarifications on any of the technical aspects, scope of work etc., he shall at once contact the official inviting the tender, for pre-bid discussions/ clarifications, before submission of the tender.	The bidder shall closely peruse all the clauses, specifications, requirements and drawings, etc., indicated in the tender documents, before quoting. Should the bidder have any doubt about the meaning of any portion of the tender specifications or find discrepancies or omissions in the specifications or if the tender documents are found to be incomplete or require clarifications on any of the technical aspects, scope of work etc., he shall at once contact the official inviting the tender, for pre-bid discussions/ clarifications, with due written request one week before the tender opening due date and any queries will not be entertained after this.
6	4.9	All the items (hardware & software) shall be supplied and successfully installed / commissioned as per scope of work in all respect within 120 days (One Hundred and Twenty days) after placement of order or issue of Letter of Intent / Work Order / Fax Order. Failure in delivery or installation within 120 days will entail Late Delivery Charges as per the LD clause of the contract. (LD will be based on contract value affected by the non-supply of delayed items)	All the items (hardware & software) shall be supplied and successfully installed / commissioned as per scope of work in all respect within 180 days (One Hundred and Eighty days) after placement of order or issue of Letter of Intent / Work Order / Fax Order. Failure in delivery or installation within 180 days will entail Late Delivery Charges as per the LD clause of the contract. (LD will be based on contract value affected by the non-supply of delayed items)
7	4.36	The price quoted in the price schedule shall be inclusive of all taxes and duties (right to use tax, service tax etc.) applicable as on date. No variation in taxes and duties shall be allowed during the R&G period except for statutory variations in the taxes and duties levied by the Government payable by the contractor for which the rate of tax/duties, basis of charge, assessable value and break-up value of tax/duty are indicated in the price schedule. Taxes not mentioned by the bidder in the price schedule will not be entertained at a later date. However, during the execution of the contract, any statutory increase or decrease in the above taxes indicated in the price bid will be entertained against Signature of the Bidder Page 44 of 83 documentary evidence i.e. original invoice relevant tax and duty notification copy, proof of payment of taxes (challan copy) and a certificate for payment of taxes and duties for the invoice	The price quoted in the price schedule shall be inclusive of all taxes and duties (right to use tax, service tax etc.) applicable as on date. No variation in taxes and duties shall be allowed during the R&G period except for statutory variations in the taxes and duties levied by the Government payable by the contractor for which the rate of tax/duties, basis of charge, assessable value and break-up value of tax/duty are indicated in the price schedule. Taxes not mentioned by the bidder in the price schedule will not be entertained at a later date. However, during the execution of the contract, any statutory increase or decrease in the above taxes indicated in the price bid will be entertained against documentary evidence i.e. original invoice relevant tax and duty notification copy, proof of payment of taxes (challan copy) and a certificate for payment of taxes and duties for the invoice.

8	5.11	<p>Licensing:</p> <p>We are having 6 processor perpetual license for Oracle database and 12 processor perpetual license for Oracle 10g application server. BHEL Ranipet is in the process of migrating this license to Web logic suite. All required licenses for this migration will be provided by BHEL Ranipet.</p> <p>If any additional license is required the same may be included in vendor scope. Additional licenses must be taken in the name of BHEL Ranipet. The details of additional license required should be mentioned along with technical offer.</p>	<p>Licensing:</p> <p>We are having 6 processor perpetual license for Oracle database and 12 processor perpetual license for Oracle 10g application server. Bidder has to supply migration of 12 processor perpetual licenses (11 proc plus 50 NUP licenses) of oracle 10g to web logic suite 11g.</p> <p>If any additional license is required the same may be included in vendor scope. Additional licenses must be taken in the name of BHEL Ranipet. The details of additional license required should be mentioned along with technical offer.</p>
9	5.2 Table S.No 8 Operating System	—	GUI based Management and performance monitoring of all systems/sub-systems of servers/partitions such as CPU, Memory, Swap Files and File systems
10	5.5 S.No 6	Shall supply 100 labeled, blank new LTO-6 tape media with each tape library; each with 3 TB uncompressed storage capacity.	Shall supply 100 labeled, blank new LTO-6 tape media with each tape library; each with minimum 2.5 TB uncompressed storage capacity.
11	5.12	—	1 year offsite support after migration completion
12	5.13 S.No 1b	The switch backplane bandwidth at minimum should be 160 Gbps fabric. The switch must support minimum 65 Mpps maximum forwarding bandwidth. The required forwarding rates are based 64 bytes packet length.	The switch backplane bandwidth at minimum should be 140 Gbps fabric. The switch must support minimum 65 Mpps maximum forwarding bandwidth. The required forwarding rates are based 64 bytes packet length
13	5.10	<p>Access control system with the following features shall be provided:</p> <ol style="list-style-type: none"> 1. LCD display of RTC (date and time) 2. LCD display of verify passed or failed 3. Audio and display for pass /fail. 4. Alarm /buzzer user programmable 5. Multi-port option and interface for card reader 6. Finger prints templates storage capacity for atleast 25 staffs 7. Data logs /records storage capacity for atleast 5000 entries/ events 8. PC connectivity 9. User friendly software with 	<p>The Access Control System shall be used to serve the objective of allowing entry and exit to and from the premises / restricted areas within the facility to authorized personnel only. The system shall be designed and implemented to provide following functionality:</p> <ol style="list-style-type: none"> 1. Controlled Entries to defined access points 2. Controlled exits from defined access points 3. Controlled entries and exits for visitors 4. Configurable system for user defined access policy for each access point 5. Record, report and archive each and every activity (permission granted and / or rejected) for each access point. 6. User defined reporting and log formats 7. Fail safe operation in case of no-power condition and abnormal condition such as fire, theft, intrusion, loss of access control, etc. 8. Day, Date, Time and duration based access rights shall be user configurable for

		<p>latest version compatible with windows 7/ 8 operating system and upgrades for 5 year lease period.</p> <p>10. At least three levels user/security/access on the units</p> <p>11. ONLINE monitoring of logged data when connected to PC</p> <p>12. MIS reports (daily/ weekly/ monthly) in text, excel, HTML, PDF formats</p>	<p>each access point and for each user.</p> <p>9. One user can have different policy / access rights for different access points.</p> <p>10. It should be possible to use the access devices like biometrics, proximity card readers, push buttons, manual switches, etc. in user defined combination for any and all of the access points on a single platform using a single software for interface.</p> <p>11. Access control system shall be designed and integrated with the access levels as desired by the user.</p> <p>12. Manual mechanical override wherever required shall be provided for access controlled gates /doors.</p> <p>13. The access control system should support the user defined access logic such as four eye concept, access timeout, anti- pass back, etc.</p> <p>14. It should be possible to configure the access rights for user defined shift hours of the day, configurable holidays, etc. It should be possible to configure the yearly schedule of access for each user and each access point in advance.</p> <p>The system employed shall be based on combination of Biometric and Proximity card Readers (with PIN and without PIN) for the critical areas, and Proximity Reader for less critical areas. System offered shall have minimum false denial of access. It shall not grant the access to the unauthorized entity under any circumstances.</p> <p>System offered shall use the reliable devices to provide trouble free operation.</p> <p>System shall be compatible to the Proximity cards to be provided by the Bidder. System should have antipass back feature with time scheduling and zonal access defined.</p> <p>Application Software</p> <p>The application software shall mean the access & time management software and database that shall be supplied together with the system in order to provide a Graphical User Interface (GUI) for human – machine interface.</p> <p>The Application software must be :-</p> <ul style="list-style-type: none"> Able to Remotely Open Doors when Desired Must Provide Patrol Management Interface Must provide at least 65 Control Zones Must be the same for both Biometric and Proximity <p>Open Platform for future integration must be provided in the form of a SDK Kit.</p> <p>The software shall be capable of providing the required functionality as mentioned above</p>
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			<p>as a minimum.</p> <p>Door Controller: The Door Controller system must be intelligent and capable of controlling 2 Doors having IN and OUT Interface. The Door controller system shall have separate readers for Entry with biometric and Exit without biometric. The door controller system shall store in its memory all the system parameters & card databases and shall be virtually independent of the network server for its regular operations. It shall also update the network server of the card entry / exit transaction data with time & date stamp when the network is online. If the network is off line, the door controller system shall store such data in its internal memory & transfer the same to the server as and when it comes back on line. The Database must have a minimum transaction record of 10,000. The user capacity must be not less than 50. The Controller shall provide Alarm Inputs for CCTV and Fire Alarm System Integration. The Controller shall have a Onscreen LCD Display to display online activities. The Controller shall be independent of the network allowing Users to Add / Delete / Modify Card Databases directly from the Controller.</p> <p>Proximity Card Reader: The unit shall be capable of reading the card without physical contact. The card reader shall only read the card data & pass it on to the door controller system for validation. The card reader, on its own may not take any decisions for granting / denying the access. The Card Reader shall have a RED/GREEN Led Indication to highlight the User Access. The card Reader must be slim and capable of directly mounting on the provided surface. The card reader must be able to communicate with the controller employing a RS232 Format</p> <p>Biometric Controller and Reader (Finger Print Reader – FPR) The Fingerprint Reader should be networkable. The PC will be used for accessing the stored data of the software. The Finger Print Reader (FPR) shall be a device, which is capable of reading a fingerprint & comparing the same with a stored template, based on optic sensors. The FPR shall store the fingerprint templates of each cardholder indexed against the card number issued to the person.</p>
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			<p>The FPR shall provide a interface of Proximity + Biometrics, Biometrics + Pin code + Proximity, Biometrics + Pin code or Only Biometric.</p> <p>When a card is presented at the proximity card reader, the card number shall be passed on to the FPR, which would then read the finger print, compare it against the templates stored against the same card number. If the fingerprint is matched, FPR shall give signal to the door controller system. In case the fingerprint is not matched, access is denied. It should be possible to configure the reader to store template of multiple fingers per person. It should be possible to configure access logic to accept alternate template for granting the access.</p> <p>Biometric reader is for the entry to the server room</p> <p>Proximity Card:</p> <p>The proximity card shall mean the access card that is capable of being read without a direct contact by the proximity card reader. The Proximity Card should be of ISO Thickness and employ 125 KHz for Transmission</p> <p>The proximity card profile shall be designed and agreed with the Bidder during the engineering stage.</p> <p>All the cards issued for the various facilities shall have a common facility code to allow interoperability of the cards from one access point to another.</p> <p>The card numbers shall be unique to each card & the systems at each facility shall permit access only to select card numbers, based on the programming.</p> <p>Minimum of 25 cards to be made available</p> <p>Electro Magnetic Locks:</p> <p>The Electro Magnetic Lock (EML) shall mean a locking mechanism that works on the principle of electromagnetic attraction. The EML shall be installed on single swing flush doors. The door controller system shall control the EML. The Lock holding capacity must be at least 650 Lbs. The type and specification of the locks shall be in accordance with the door design and specification and also door controller system. The locks should be of sufficient strength to withstand forced attack to open the door</p> <p>Other devices such as Manual Switches, Push Buttons, Mechanical over-ride etc.:</p> <p>As required and compatible with the overall system offered by the bidder.</p> <p>Cables:</p>
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			As required and in accordance with the general specifications guidelines provided in 'Electrical Distribution System' section and Product Parameters defined hereunder. Panic latch bar has to be provided for the emergency door of the server room. The design of access control should be based on the various zones of the DC from least secure to high secure zones. A matrix depicting the entry and exit for each of the doors to be submitted along with the technical bid.
14		Price bid format A,B & C	A,B and C Revised and "D" added. All Formats are enclosed.
15	4.3	The bidder shall sign all the pages of the Tender document and all the supporting documents. Signing of the document means that the bidder has fully understood the Tender and complies with all the requirements.	The bidder shall sign all the pages of the Tender document including all the corrigendum and all the supporting documents. Signing of the document means that the bidder has fully understood the Tender and complies with all the requirements.
16	---	Existing Tender submission Due Date	Tender Submission Due Date is EXTENDED to 16.06.2014.

Annexure numbers have been misplaced for Annexure I, II, III and IV

The Annexure numbers corresponds to the following formats

Annexure No.	Format Name
Annexure I	Schematic diagram describing the required hardware and other equipment's to run oracle database and applications (page 79 of 87)
Annexure II	Authorization by OEM (page 80 of 87)
Annexure III	Annual Turnover of Bidder (page 81 of 87)
Annexure IV	Copy of major orders received in last 5 years (page 82 of 87)

Price bid formats (A,B,C and D) enclosed.

Note: Except the above changes, no other change /Correction in the original Tender Document.

Price Format-A

Format for Submitting the Price details of Supply of Computer Systems on finance lease for a period of 5 years for replacement of existing hardware running Oracle Applications at BHEL, Ranipet

Prices Format - A															
Sl. no	Item	Unit Qty	Unit price (outright)	Five years lease rental charges (All values to be quoted in Rupees)											
				Total Equipment cost (Excluding VAT)	VAT/CST on (a)		Towards Maintenance Charges (Excl Ser.Tax)	Service Tax on Maintenance on (c)		Total Interest Charges	VAT on Interest Charges On (e)		Service tax On (e) will be applicable On 10% of the total Interest charges	Any other Tax	Total (a+b+c+d+e+f+g+h)
				Quarterly	Quarterly		Quarterly	Quarterly		Quarterly	Quarterly		Quarterly	Quarterly	Quarterly
	Items on Lease			(a)	(b)		(c)	(d)		(e)	(f)		(g)	(h)	(i)
1	RISC/EPIC SERVERS (WITH RACK)	2													
2	SAN Storage (with Rack)	2													
3	SAN Switch	4													
4	Tape Library (With Rack)	2													
5	LAN Switches	8													
6	Backup Software	2													
7	Backup Server	2													
8	Precision Air conditioners	2													
9	Biometric access system	2													
	Total - price Bid - A														

A_ST 1 0

A_ST 2 0

Sub Toatal A 0

Date:

Vendors signature & seal

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Price Format-B

Format for Submitting the Price details of Software Migration at BHEL, Ranipet (One Time Payment)

Sl.NO	Item	Unit Qty	Value without taxes	% of applicable Tax and duties			Amount of Taxes duties			Total value including Tax	Note: Additional software licenses required if any, should be included in this price format. Details of the software and type and number of license may be indicated in a separate sheet.
				ED	CST/VAT	Service Tax	ED	CST/VAT	Service Tax		
	Items on Lease										
1	Oracle Database and Application Migration	1 Set									
2	Migration of KBPCES	1 Set									
3	License migration from Oracle 10g to Weblogic suite 11g (11 proc plus 50 NUP license)	1 Set									
	Total _ Price Bid -B										

B_ST 1 **0**

B_ST 2 **0**

Sub Toatal B **0**

Date:

Vendors signature & seal

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Price Format-C

Format for Submitting the Price details of Supply of Computer Systems on finance lease for a period of 5 years for replacement of existing hardware running Oracle Applications at BHEL, Ranipet

Quarterly AMC Charges for 6th and 7th year							
		Quarterly AMC charges (in Rs.) (A)	Applicable Taxes (in Rs.) X% of Value (A)		Service Tax (in Rs.) Y% of Value(A)		Total Quarterly AMC charges (D) (D=A+B+C)
			Tax %	(B)	Service Tax %	(C)	
1	Quarterly AMC Charges for the items Sl.No. 1 to 9 for 6th and 7th years						

Note : X + Y should be 100%

C_ST	0
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Sub Toatal C	0
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Details	Total Quarterly Charges in Rs.
Total – Price Bid A	0.00
Total – Price Bid C	0.00
Total	0.00

One Time Payment - Price Bid B	0.00
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Date:

Vendors signature & seal

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ENQUIRY NO : OPEN TENDER
ENQUIRY OPENED ON : xx.xx.xxxx

This is an excel template to be used by the bidder for arriving at the Net Cost

ITEM DESCRIPTION : DATA BASE SERVER

NAME OF THE SUPPLIER :

Sl. No.	DESCRIPTION	AMOUNT FOR ONE QUARTER	PERIOD	TOTAL AMOUNT
1	Five years Lease Rental Charges (Sub Toatal A)	0.00	20	0.00
2	One Time Charges (Sub Total B)	0.00	1	0.00
3	Quarterly AMC Charges from 6th year valid for 2 years (Sub Toatal C)	0.00	8	0.00
4	GRAND TOTAL (Total of Sub Totals of A+B+C) (Sl.No. 1+2+3)	-	-	0.00
5	LESS: Total Service Tax of A	0.00	20	0.00
6	Sub Total - 1 (Grand Total - Total Service Tax of A) (Sl.No. 4-5)	-	-	0.00
7	LESS: Total Service Tax of B	0.00	1	0.00
8	Sub Total - 2 (Sub Total 1 - Total Service Tax of B) (Sl.No. 6-7)	-	-	0.00
9	LESS: Total Service Tax of C	0.00	8	0.00
10	NET COST (Sub Total 2 - Total Service Tax of C) (Sl.No. 8-9)	-	-	0.00

↑
This amount to be
given as input for
RA.

Date:

Vendors signature & seal

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