


Maharashtra State Electricity Transmission Co. Ltd
(CIN No.U40109MH2005SGC153646)

<p>From Office of the Chief Engineer EHV Project Cum O&M Zone, Pune Administrative Building, 3rd floor, Block No.402, Rasta Peth, Pune - 411 011 ☎020 26066106 (O) 020 26061132 E-Mail : cepune@mahatransco.in</p>	
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No. CE/EHV PC O&M/Zone/Pune/IT/1615

Date: 19.09.2024

E-ENQUIRY (Through MSETCL web page)

Sub: E-Enquiry for ‘Annual Maintenance Contract (AMC) for one year for Computers (Desktops, Laptops and such a devices), Local area network (LAN) And allied devices of LAN, Printers, general purpose and system software including supply, installation & maintenance at MSETCL Offices in Administrative Building, Rasta Peth, Pune- 411 011 with online support services to MSETCL’.

Dear Sir/Madam,

Sealed and Super scribed quotations are invited for the Annual Maintenance Contract (AMC) as mentioned per ‘Scope of work’ & ‘Schedule-A,B’. You are requested to quote your lowest rate for above work.

The terms & conditions are as follows: -

1. The rate in % should be quoted on firm quotation basis. % Rates should be quoted on ‘exclusive rates’ mentioned in Schedule-A, B’ (*GST @ 18% will be included later on exclusive % rates quoted by bidder*). Form to submit the response is attached herewith. The period of the contract shall be one year (12 months) or exhaust of work order amount, whichever is earlier, from the issue of Work Order/LOI, so rates shall be valid accordingly.
2. The value of work order will be limited up to Rs. 10,00,000/- (Rs. Ten Lacs only/-) inclusive of any taxes.
3. Any configuration, item specification, work execution, guidelines shall be as per ‘Scope of Work (Annexure-A)’ and ‘Schedule-A, B’. Refer ‘Schedule-C’ also.
4. Enclose copy of following valid documents, along with quotations.
 - a) Valid copy of Registration under Shop Act or NOC of Gram panchayat or Udyam aadhar.
 - b) PAN card.
 - c) GST Registration certificate.

- d) Minimum one 'Work Order' of similar work within last 3 years of any sector (MSETCL/MSEDCL/MSPGCL or any 'Government/Semi-government/Private' establishment)
5. **Your duly filled with sealed and super scribed quotation should reach this office on or before dtd. 30.09.2024 at 12.00 Hrs. without fail. Date of opening of quotation is 30.09.2024 at 15.00 Hrs. (Probable). Quotations received after due date & time will not be considered.**
6. The successful Bidder shall accept the offer within 7 days from LOI/Work Order OR it will be presumed that concern bidder is not interested for same work. The successful Bidder shall pay 10% of the contract value towards 'security deposit' (S.D.) with the acceptance of LOI/Work Order. After expiry of the contract period, interest free 'Security deposit' will be refunded in normal course, subject to any decutions/penalty (if applicable) & as per MSETCL terms & conditions. In case of breach of contract during contract period, S.D. will be forfeited without assigning any reason.
7. The successful Bidder shall execute Agreement on Rs.500/- (Rs. Five hundred only/-) stamp paper in 'MSETCL format' within 7 days from the issue of Work Order/LOI. Bidder shall bear Cost of the 'stamp paper & execution of agreement'.
8. Any disputes related to the contract shall be subject to the exclusive jurisdiction of Pune District Court only. The MSETCL's general '*Terms & Conditions*' shall be applicable & binding on bidder for this wok contract.
9. The right to place a 'work order/LOI' or to 'cancel' this work without assigning any reason is reserved with this office.

Thanking You.

Enclosed: 'Schedule- A, B & C' and 'Scope of Work (Annexure-A)'

Yours faithfully

Sd/-
(Anil Kolap)
Chief Engineer
EHV PC O&M Zone Pune

Copy to:
AGM (F&A), EHV PC O&M Zone Pune.
MF/Notice Board

Scope of Work (Annexure-A)

Subject: Annual Maintenance Contract (AMC) for one year for Computers (Desktops, Laptops and such a devices), Local area network (LAN) And allied devices of LAN, Printers, general purpose and system software including supply, installation & maintenance at MSETCL Offices in Administrative Building, Rasta Peth, Pune- 411 011 with online support services to MSETCL.

- 1) Period of AMC contract shall be one year (12 Months) from the date of commencement of the contract. However, in case of unsatisfactory 'Services or Spares', MSETCL reserves right to terminate contract at any time during period of contract by giving seven (7) days' 'notice' & in this case, MSETCL shall not be bear any kind of 'losses of bidder'. Bidder shall provide his official email Id for this contract. MSETCL shall consider this Email Id 'official' for any communication with the bidder.
- 2) Contract value shall be limited up to Rs.10 Lacs (Rs. Ten Lacs/-) including all taxes. Spare's (as per 'Scope of Work' & Schedule- 'A') requirement will be on 'as & when' required basis only (by MSETCL). 'Annual Service charges' part shall be as per 'Scope of Work' & Schedule- 'B' & in line with Schedule- 'A'.
- 3) Bidder shall do troubleshooting, breakdown, preventive, regular maintenance and support of all IT Systems like but not limited to Computers, Laptops, Printers, WIFI, LAN, Projector, CCTV, Power Supply of IT Systems. Bidder may visit the site to have profound knowledge of existing MSETCL IT Systems. Approximately 170 Computers-Laptops, 130 printers, 40 LAN and allied devices of different but not limited to Lenovo, Dell, HP, Epson, Cisco, D-link, TP-Link, assembled etc. various brands. Count may vary time to time.
- 4) Bidder shall do printer & toner refilling and troubleshooting as per requirement raised by MSETCL.
- 5) Bidder will do cleaning of all IT Systems (with blower &/or cotton) like but not limited to computers, printers, LAN devices, Video conference device, UPS, Projectors. Frequency of the same will be 'twice in a month' and as per need of MSETCL, to remove dust, dirt, & lubrication of working assembly and cleaning of any drive like C.D./D.V.D. Drive head , Printer with Head etc. with bidder's tools. Bidder will provide any lubrication for Computers, Printers, Projector, CCTV etc.
- 6) **Spares:**
 - a) Bidder will provide & install 'New spare' (New & Faulty spares to be replaced) with 'Original Brand New' spare, as per item list given in Schedule 'A'.
 - b) **Timeline:** Bidder will provide & fix all required spares within same working day after reporting to them (via any Email/Phone/SMS/Any Messaging App/ITAMS). For some specific spares, MSETCL may give extended timeline but at sole discretion of MSETCL. Bidder is suggested to maintain sufficient inventory of spares at the site.
 - c) **Authenticity of the Spare/s:** All spares should be new (box packed & sealed), original, branded & authentic. Authentic Spares should have hologram/barcode or should be able to see its' authenticity on manufacturer/OEM's website. If authenticity of spare is not found at any time, bidder has to change the same with authentic spares at his own cost.
 - d) All spares are of 'providing & fixing' manner. Means, e.g. if UTP Cat-6 cable is to be replaced or installed through conduit, for this (work) 'scope of work' shall be, providing and fixing UTP Cat-6 cable with PVC capping, casing, labour, crimping, drilling, screws, tags, removing old set up and all things required for the same work, So 'One (1) Meter UTP Cat-6 Cable' in 'Schedule-A' comprises of all this. This is just an illustrative example and this illustration is applicable for all spares in Schedule-A. For any doubts regarding execution, bidder may email to IT Section, EHV PC O&M Zone,Pune. (itadmin6000@mahatransco.in).

- e) Bidder shall maintain the spares as per manufacturer/OEM's guidelines and shall use standard spares for replacements. In case of an instance of sub-standard repair /replacement of parts by the bidder, it may lead to cancellation of the contract and any other legal action may be taken against the bidder.
- f) Due to change of type in any basic spare, spare matching/relative spare with Schedule 'A' can be installed as per requirement of MSETCL.
- g) **Warranty:** New spares shall have minimum one year onsite warranty (by bidder only) or as actual warranty (if warranty is more than one year, provided by manufacture/OEM). Within warranty period, Bidder will have to 'replace' faulty spare with 'New Spare' as per all conditions of 'Scope of Work' free of cost. Warranty is considered against original spare installation/work completion date. All spares or service should be compatible with existing & upcoming MSETCL IT Systems.
- h) **Temporary Standby Spares:**
In case of troubleshooting/failure of spares, bidder will provide standby spares of same quality & capacity to the end user. For example, in case of Hard disk format or failure, bidder shall temporarily install his standby hard disk with all softwares till new spare i.e. hard disk is installed. Example is just illustrative purpose & applicable to all spares & services. This standby spare will not be permanent, once it is replaced via AMC, this old spare will be taken back by bidder with no MSETCL data (in case may be).
- i) MSETCL reserves right to choose brand of any spare (considering rules & regulations of ban/quality etc.) and shall be applicable to the bidder.

7) Local Area Network (LAN):

Bidder shall do:

- a) Network management, traffic monitoring, updating of software on the network hardware.
- b) Running latest diagnostic software to LAN. Speed checking and resolution of LAN related issues.
- c) Firewall policies will be designed & applied by bidder whenever required by MSETCL.
- d) Any configuration related to Firewall, Switches, Modems, and Routers and allied all LAN equipment.
- e) IP Schema Management.

8) MSETCL Helpdesk Management system & ITAMS: -

Bidder shall do:

- a) Checking & resolving calls in ITAMS or on his provided email Id.
- b) Maintain inventory of issued, replaced, faulty, standby spares.
- c) Inventory Management of hardware and software installed in EHV PC O&M Zone, Pune, in consultation with concern offices.
- d) Online support services to MSETCL jurisdiction over phone by using tools like anydesk etc.
- e) Help & presence at other MSETCL locations for Meetings or any issues.
- f) Maintenance, update, Track of MSETCL - IT Asset Management System in consultation with IT Section.
- g) Data backup of IT systems as per guidelines by IT Section.

9) **Tools:** Bidder shall make available all tools like but not limited to fibre optic splicing machine, crimping tool, testers, pen drive, USB back up hard disk, SATA Hard disk, printer diagnostic spares, drilling machine, big & small size blower, computer & printer & CCTV repair toolkit and any troubleshooting and diagnostic tools on the site.

10) **Software:** Bidder shall provide & install full working any setup of software required to MSETCL like but not limited to MS Windows OS Pro 10/11, MS Office Pro 2021 or latest, Adobe reader, Printer drivers, Computer drivers, DVD burning tools, IP messenger etc. Also, MSETCL will intimate to bidder other software set up required on 'time to time' and bidder shall provide setup within one day. Bidder shall also install MSETCL's Antivirus software, SAP GUI, VPN, IP Messenger etc. Software Installation timeline shall be two (2) hours after reporting. Bidder will install all MSETCL required softwares.

- 11) Internet monitoring:** Bidder shall check Internet connectivity on daily basis compulsory by morning and evening closing time, call log to ISP, track and get resolved the complaint. Check and troubleshoot related issues of End users and ISP.
- 12)** Works assigned by IT Section related to all IT Systems existing and upcoming (e.g. Computer Hardware, Software, LAN, MSETCL systems etc. Work will be extended as per new additions of IT systems as per requirement of MSETCL on time to time.
- 13)** Standard operating procedure (SOP) will be given by IT section regarding all work.
- 14) Support staff:**
- a) Bidder shall provide one (1) support staff at the site. Commencement of contract will be considered after providing email Id & mobile number with support staff to MSETCL.
 - b) Bidder shall provide one Email Id & Mobile number having messaging account to support staff to communicate to MSETCL. MSETCL officials will call on these numbers or email for services. Email Id and Mobile numbers should NOT be changed during contract period. Also, Bidder shall provide internet to the support staff.
 - c) Support staff should be well experienced and skilled Certified in computer Hardware, Software, Printer and Network and overall IT devices and systems & needs to have ability to execute full work as per this contract.
 - d) Support staff should be able to troubleshoot, diagnose, resolve and should be competent to repair all types of Computers, Laptops, Printers, Scanners, Servers, UPS and LAN with all LAN equipment, CCTV, Projectors and overall IT devices and systems, and should be able to handle networking protocols including but not limited to Internet Protocol, Microsoft protocol etc., firewall, switch configuration, PC format with reinstallation of system software with back up at MSETCL. Support staff should have profound knowledge of all IT infrastructure.
 - e) Support staff should have minimum One (1) year of relevant experience. MSETCL may will at any time test the knowledge of Support staff by self or third party. Any fault or issue or problems or loss occurred to MSETCL due to lack of knowledge of support staff, in this case, concern bidder shall be responsible for the same and MSETCL will get this work by third party agency & losses (invoices by third party full / partially) with penalty will be recovered from the concern bidder.
 - f) Support staff should have profound knowledge of computer networking like but not limited to LAN, IP management, Managed switches management, firewall management, ISP management, creating any type of rule or configuration in firewall or switch as per MSETCL requirement. Support staff should take care that no existing setup should be hampered.
 - g) Safety Measures: While executing any work, any 'safety measures' of 'support staff' should be taken care by bidder only. In case of any issues, MSETCL shall not be responsible. Support staff & bidder should be well compatible & profound to handle issues related with 'safety measures' themselves.
 - h) Support staff should be provided by bidder only. Third party 'Support staff' (other than bidder) will not be allowed. After initiation of contract, Bidder shall provide 'Aadhar Card/Passport & PAN Card/Driving License etc.' copy of 'support staff' for security purpose.
 - i) Working hour of the support staff shall be 09:30 Hrs to 19:00 Hrs on working days including a break. Services of support staff are for full contract period. On weekends and holidays, it is sole discretion of MSETCL to be provide OFF for support staff. In addition to this, support staff may have to work beyond working specified hours without any additional cost as per MSETCL needs. Support staff's rules & regulations management (any legal rules applicable time to time) shall be responsibility of the bidder. Support staff should have his own latest Laptop with latest OS, if required for outside support, they should also have internet. Support staff service is a full month i.e. 30/31 days as the case may be.

- j) Support staff will report on every day morning to the IT Section. Bidder has to provide replacement for Support staff in case of absence of any Support staff of same capacity.
- k) Support staff shall do basic works like but not limited to drilling/electric/screw fitment etc. Support staff shall handle logistics related to AMC without any extra charges.
- l) MSETCL shall not provide any accommodation or travelling allowance to bidder or support staff.
- m) Support Staff shall attend call within 30 minutes after reporting.
- n) All 'Annual Service charges' with respect to complete 'scope of work' are mentioned in 'Schedule-B'. In 'Schedule-B', "Splicing & Termination of Fiber Optic Cable (Both ends)" charges shall be 'as and when required' by MSETCL.

15) General Terms & Conditions:

- a) Bidder has to provide substitute Support staff in case of absence of any regular Support staff of same capacity. Bidder will have to make arrangement of relievers (of Support staff) for any off/ leave etc. at his own cost.
- b) Any issue received to support staff directly or through this office shall be attended promptly. After resolving the issue, duly signed certificate of the end user with his reporting officer sign shall be obtained for which spares are consumed. Log of calls attended should be maintained in a register in a format given by MSETCL and in E-ticketing system (if operational). Bidder will provide register to MSETCL. Any such a register during contract period will be kept safe by bidder & Bidder will hand over these registers to MSETCL.
- c) Bidder shall provide & install new spare/s configuration, installation as per Email from IT Section only.
- d) Work completion date will be considered via bidder email reply date only as per scope of work.
- e) MSETCL may utilise services of this AMC in Pune & PCMC region time to time for meeting purpose.

16) Penalty Clauses: As per Schedule-'C'. In case of delay, due to all subjects mentioned in 'Scope of Work', MSETCL will get completed same work from any third party agency & bills from third party agency along with 'penalty' as per 'Penalty Clauses' will be deducted from bills or S.D. of the bidder.

17) Comprehensive Items: CCTV System, Switches, Firewall, WIFI, VC Devices with Configuration are comprehensive items. Means, Bidder should take care proactive actions to safeguard them. Bidder will keep 30 Days CCTV Back up Secured on MSETCL Back up. VC System/s will be comprehensive & will be custody of Bidder.

18) Bill Payment: Billing cycle will be per month (after completion of the month) from date of commencement of the contract and shall be as per Schedule-A, B, C and with respect to Scope of Work.

..SD..
AP (IT)
EHV PC O&M Zone, Pune



Schedule-'A' (IT AMC) - Spare List of Desktops,Laptops,Printers,Network devices etc.

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
A	B	C	D	E	F	G = (E*F)/100	H =E+G
A	Spares list for Desktop PC	Please refer 'Scope of Work'	-	-	-	-	-
1	SMPS: 450 Watts SMPS (Artis/Circle)	Over Voltage,Under Voltage,Over Load Protection,Burnout Protection,Cooling Fan	Each	767	18%	138.06	905.06
2	SMPS: 500 Watts SMPS (Artis/Circle)	Over Voltage,Under Voltage,Over Load Protection,Burnout Protection,Cooling Fan	Each	1875	18%	337.5	2212.5
3	2GB DDR2 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	507	18%	91.26	598.26
4	2GB DDR3 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	507	18%	91.26	598.26
5	4GB DDR3 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	767	18%	138.06	905.06
6	8GB DDR3 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1365	18%	245.7	1610.7
7	4GB DDR4 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1157	18%	208.26	1365.26
8	8GB DDR4 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1547	18%	278.46	1825.46
9	128GB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	975	18%	175.5	1150.5
10	256GB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1462	18%	263.16	1725.16
11	512GB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	2762	18%	497.16	3259.16
12	1TB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	5460	18%	982.8	6442.8
13	128GB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1121	18%	201.78	1322.78
14	256GB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1930	18%	347.4	2277.4
15	512GB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	3055	18%	549.9	3604.9
16	1TB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	5700	18%	1026	6726
17	128GB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1027	18%	184.86	1211.86
18	256GB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1527	18%	274.86	1801.86
19	512GB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	2840	18%	511.2	3351.2

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
20	1TB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	5642	18%	1015.56	6657.56
21	Caddy for Harddisk	Compatible to MSETCL Systems	Each	130	18%	23.4	153.4
22	1TB Internal SATA Hard Drive (Seagate/Toshiba/Samsung)	Minimum 7200 RPM	Each	4745	18%	854.1	5599.1
23	External USB DVD minimum 8X Rewriter (HP/Dell/Lenovo)	1 Year Warranty or as actual if greater than 1 Year.	Each	2145	18%	386.1	2531.1
24	Mouse Pad	Minimum 20cm * 25cm & 2mm thick, Anti-Slip Rubber Base & Smooth Mouse Control with Spill-Resistant Surface, Good quality smooth fabric	Each	52	18%	9.36	61.36
25	Mouse Pad with wrist rest	Minimum 20cm * 25cm & 2mm thick, Anti-Slip Rubber Base & Smooth Mouse Control wrist rest, Good quality smooth fabric	Each	65	18%	11.7	76.7
26	CMOS Cell	1 Year Warranty or as actual if greater than 1 Year.	Each	25	18%	4.5	29.5
27	Gigabit ethernet Network Cards/Adapters (D-link/TP-Link)	1 Year Warranty or as actual if greater than 1 Year.	Each	1482	18%	266.76	1748.76
28	Sound Cards/Adapters	1 Year Warranty or as actual if greater than 1 Year.	Each	215	18%	38.7	253.7
29	Wired USB Multimedia KeyBoard Mouse Combo (HP/Dell/Lenovo)	Standard Size , not compact ,USB , Plug & Play	Each	735	18%	132.3	867.3
30	Wireless Multimedia KeyBoard Mouse Combo with USB adapter (HP/Dell/Lenovo)	Standard Size , not compact ,USB , Plug & Play , Mouse Scroll, Led Tracking	Each	1378	18%	248.04	1626.04
31	Wired USB Multimedia KeyBoard (HP/Dell/Lenovo)	Standard Size , not compact , USB, Plug & Play	Each	605	18%	108.9	713.9
32	Wireless Multimedia KeyBoard with USB adapter (HP/Dell/Lenovo)	Standard Size , not compact , Plug & Play , USB	Each	950	18%	171	1121
33	Wired USB Mouse (HP/Dell/Lenovo)	Standard Size , not compact , USB , Plug & Play , Mouse Scroll, Led Tracking	Each	300	18%	54	354
34	Wireless Mouse with USB adapter (HP/Dell/Lenovo)	Standard Size , not compact , USB , Plug & Play , Mouse Scroll, Led Tracking	Each	750	18%	135	885
35	600VA UPS (Artis/Luminous)	600VA UPS is required.	Each	2450	18%	441	2891
36	UPS Battery	600VA UPS Battery	Each	1024	18%	184.32	1208.32
37	USB 3.0 to RJ45 Gigabit Ethernet Network Adapter : TP-Link/Storite	1 Year Warranty or as actual if greater than 1 Year.	Each	1482	18%	266.76	1748.76
B	Softwares						
1	Windows 10 Professional Operating System 32/64 Bit Lifetime License with OEM License Key	Lifetime License registered to MSETCL with Key	Each	11270	18%	2028.6	13298.6

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
2	Microsoft Office Home & Business 2021 Lifetime License with OEM License Key	Lifetime License registered to MSETCL with Key	Each	18850	18%	3393	22243
3	Microsoft Office Home & Student 2021 Lifetime License with OEM License Key	Lifetime License registered to MSETCL with Key	Each	11050	18%	1989	13039
C	Spares list for Laptop						
1	2GB DDR2 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	507	18%	91.26	598.26
2	2GB DDR3 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	507	18%	91.26	598.26
3	4GB DDR3 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	767	18%	138.06	905.06
4	8GB DDR3 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1365	18%	245.7	1610.7
5	4GB DDR4 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1157	18%	208.26	1365.26
6	8GB DDR4 RAM (Kingston/Hynix/Simmtronics/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1547	18%	278.46	1825.46
7	128GB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	975	18%	175.5	1150.5
8	256GB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1462	18%	263.16	1725.16
9	512GB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	2762	18%	497.16	3259.16
10	1TB SATA SSD Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	5450	18%	981	6431
11	128GB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1157	18%	208.26	1365.26
12	256GB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1930	18%	347.4	2277.4
13	512GB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	3055	18%	549.9	3604.9
14	1TB NVMe Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	5650	18%	1017	6667
15	128GB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1027	18%	184.86	1211.86
16	256GB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	1527	18%	274.86	1801.86
17	512GB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	2840	18%	511.2	3351.2
18	1TB M.2 Hard Disk (EVM/Kingston/Samsung/Crucial)	Compatible to MSETCL Systems	Each	5600	18%	1008	6608
19	Caddy for Harddisk	Compatible to MSETCL Systems	Each	130	18%	23.4	153.4
20	1TB Internal SATA Hard Drive : Seagate/Samsung	7200RPM , Minimum 64MB Cache	Each	4700	18%	846	5546
21	6 Cell Laptop Battery (HP/DELL/Lenovo)	Compatible to MSETCL Systems	Each	1820	18%	327.6	2147.6

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
22	Laptop Battery Charger/Adapter : HP/DELL/Lenovo	Protection against Over Load, Short Circuit, Over Voltage & Over Temperature, should meet all the EMI/EMC and safety requirements with all the Energy Star requirements and Compatible to MSETCL Systems.	Each	1820	18%	327.6	2147.6
23	Network Cards/Adapters	1 Year Warranty or as actual if greater than 1 Year.	Each	585	18%	105.3	690.3
24	Sound Cards/Adapters	1 Year Warranty or as actual if greater than 1 Year.	Each	215	18%	38.7	253.7
D	Spares list for Printer						
1	Black LaserJet Toner Cartridges: HP 12A	Compatible to MSETCL Systems	Each	5265.00	18%	947.7	6212.7
2	Black LaserJet Toner Cartridges: HP 18A	Compatible to MSETCL Systems	Each	4680.00	18%	842.4	5522.4
3	Black LaserJet Toner Cartridges: HP 36A	Compatible to MSETCL Systems	Each	5044.00	18%	907.92	5951.92
4	Black LaserJet Toner Cartridges : HP 88A	Compatible to MSETCL Systems	Each	4095.00	18%	737.1	4832.1
5	Black LaserJet Toner Cartridges : HP 110A	Compatible to MSETCL Systems	Each	5135.00	18%	924.3	6059.3
6	Black LaserJet Toner Cartridges : AC 303 Cartridge for Canon L11121E Printer	Compatible to MSETCL Systems	Each	5330.00	18%	959.4	6289.4
7	Black LaserJet Toner Cartridges : Canon All in one MF3010	Compatible to MSETCL Systems	Each	4030.00	18%	725.4	4755.4
8	Color LaserJet Toner Cartridge : HP CP1025 with all colours	Compatible to MSETCL Systems	Each	4225.00	18%	760.5	4985.5
9	Toner Refill : HP CP1025 Color printer Original LaserJet Toner Cartridge with all colours	Compatible to MSETCL Systems	Each	520.00	18%	93.6	613.6
10	Power Supply Board : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202 and similar HP Printers.	Compatible to MSETCL Systems	Each	5070.00	18%	912.6	5982.6
11	Power Supply Board : HP Laserjet - M202n, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	5850.00	18%	1053	6903
12	Logic Board : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202 and similar HP Printers.	Compatible to MSETCL Systems	Each	4550.00	18%	819	5369
13	Logic Board : HP Laserjet - M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	4940	18%	889.2	5829.2

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
14	Toner Drum : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	130	18%	23.4	153.4
15	PCR Rod : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	140	18%	25.2	165.2
16	Magnetic Rod : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	125	18%	22.5	147.5
17	Doctor blade : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	120	18%	21.6	141.6
18	Wiper Blade : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	120	18%	21.6	141.6
19	Teflon : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	260	18%	46.8	306.8
20	Paper Feed roller : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	195	18%	35.1	230.1

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
21	Heating Element : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	1105	18%	198.9	1303.9
22	Paper Pickup Roller : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	195	18%	35.1	230.1
23	Paper Output Tray : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	455	18%	81.9	536.9
24	Laser Scanner Unit : HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs and similar HP Printers.	Compatible to MSETCL Systems	Each	1365	18%	245.7	1610.7
25	Power Supply Board : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	2405	18%	432.9	2837.9
26	Logic Board : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	4745	18%	854.1	5599.1
27	Toner Drum : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	150	18%	27	177
28	PCR Rod :Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	140	18%	25.2	165.2
29	Magnetic Rod : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	140	18%	25.2	165.2
30	Doctor blade : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	140	18%	25.2	165.2

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
31	Wiper Blade : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	140	18%	25.2	165.2
32	Teflon : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	195	18%	35.1	230.1
33	Paper Feed roller : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	195	18%	35.1	230.1
34	Heating Element : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	1105	18%	198.9	1303.9
35	Original Toner Cartridge : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	4030	18%	725.4	4755.4
36	Control Panel : Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers	Compatible to MSETCL Systems	Each	1040	18%	187.2	1227.2
37	80Gram LaserJet Toner Powder Bottle	High Density ,Premium Quality Black Toner Powder ,Strong Adhesion, Firmly Fusing compatible to HP/Cannon/Samsung and all similar category laserJet toners.	Each	120	18%	21.6	141.6
38	Gear Assembly: HP Laserjet - P1006,P1007, P1008, P1106, P1108, 1022, 1020+, 1005, P1505, M202, M202n, M202dw, M126nw, M128fn, M128fw, M226dw, M226dn, M1136mfp, M1213nf, M1216nfh, M1218nfs & similar HP Printers & Canon imageCLASS MF3010 , Canon L11121E and similar Canon Printers.	Compatible to MSETCL Systems	Each	975	18%	175.5	1150.5
E	Cables						
1	3 Pin Desktop Power Cord : 2 Meter	Standard Nominated brand with 1 Year Warranty or as actual if greater that 1 Year and compatible to HP/Dell/Lenovo machines.	Each	190	18%	34.2	224.2
2	3 Pin Printer Power Cable : 2 Meter	Standard Nominated brand with 1 Year Warranty or as actual if greater that 1 Year and compatible to HP/Canon and similar printers.	Each	190	18%	34.2	224.2
3	CPU to Monitor VGA Cable : 3 Meter	1 Year Warranty or as actual if greater that 1 Year.	Each	247	18%	44.46	291.46
4	Printer USB Data Cable : 2 Meter	1 Year Warranty or as actual if greater that 1 Year and compatible to HP/Canon and similar printers.	Each	149	18%	26.82	175.82
5	HDMI Cable : 2 Meter	1 Year Warranty or as actual if greater that 1 Year.	Each	159	18%	28.62	187.62

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
6	HDMI Cable : 5 Meter	Standard Nominated brand with 1 Year Warranty or as actual if greater than 1 Year	Each	449	18%	80.82	529.82
7	HDMI Cable : 10 Meter	Standard Nominated brand with 1 Year Warranty or as actual if greater than 1 Year	Each	1027	18%	184.86	1211.86
8	Multiple USB Connector/Hub 4 Port 3.0 (Transcend/Circle)	1 Year Warranty or as actual if greater than 1 Year.	Each	1105	18%	198.9	1303.9
9	6A Spike Guard with 5 Socket & 5 Meter Cable	Spike Guard with fuse protection/ 3 Pin/ Standard Quality like Anchor/GM	Each	850	18%	153	1003
G	Storage Devices						
1	16GB Pen Drive 3.0 Steel Body (HP/Kingston/Transcend)	Standard Size , Not too compact or of made from memory card. Standard Nominated brand with 1 Year Warranty or as actual if greater than 1 Year.	Each	416	18%	74.88	490.88
2	32GB Pen Drive 3.0 Steel Body (HP/Kingston/Transcend)	Standard Size , Not too compact or of made from memory card. Standard Nominated brand with 1 Year Warranty or as actual if greater than 1 Year.	Each	455	18%	81.9	536.9
3	4GB Blank DVD (Sony/Samsung/HP)	Compatible to MSETCL Systems	Each	190	18%	34.2	224.2
4	1TB External Portable Hard Disk USB 3.0 (Seagate/Samsung/Transcend)	1 Year Warranty or as actual if greater than 1 Year.	Each	6700	18%	1206	7906
H	Networking & Devices						
1	Cat-6e UTP Cable with laying (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year.	Meter	52	18%	9.36	61.36
2	Cat-6e UTP Cable with laying & PVC Casing & capping, PVC Pipe, Screws, drilling (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year.	Meter	95	18%	17.1	112.1
3	2 Core armoured Industrial Grade Fibre optic cable with laying (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Meter	65	18%	11.7	76.7
4	4 Core armoured Industrial Grade Fibre optic cable with laying (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Meter	92	18%	16.56	108.56
5	6 Core armoured Industrial Grade Fibre optic cable with laying (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Meter	102	18%	18.36	120.36
6	2 Core armoured Industrial Grade Fibre optic cable (D-Link) with laying with PVC Casing & capping, PVC Pipe, Screws, drilling (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Meter	123	18%	22.14	145.14

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
7	4 Core armoured Industrial Grade Fibre optic cable (D-Link) with laying with PVC Casing & capping, PVC Pipe, Screws, drilling (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Meter	146	18%	26.28	172.28
8	6 Core armoured Industrial Grade Fibre optic cable (D-Link) with laying with PVC Casing & capping, PVC Pipe, Screws, drilling (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Meter	156	18%	28.08	184.08
9	2" Press Fit Royal PVC Casing & capping	1 Year Warranty or as actual if greater than 1 Year.	Meter	85	18%	15.3	100.3
10	PVC Pipe	1 Year Warranty or as actual if greater than 1 Year.	Meter	85	18%	15.3	100.3
11	Single Information Outlet (Ethernet) with faceplate and box (D-Link/Commscope)	Standard nominated. Providing & Fixing of tool less information outlet (ethernet) flush/surface type in position as per specification no WGNAS/IO.	Each	425	18%	76.5	501.5
12	Double Information Outlet (Ethernet) with faceplate and box (D-Link/Commscope)	Standard nominated. Providing & Fixing of tool less information outlet (ethernet) flush/surface type in position as per specification no WGNAS/IO.	Each	585	18%	105.3	690.3
13	RJ45 Cat6 1 Meter Patch Cord Ethernet LAN Cable (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	189	18%	34.02	223.02
14	RJ45 Cat6 2 Meter Patch Cord Ethernet LAN Cable (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	215	18%	38.7	253.7
15	RJ45 Cat6 3 Meter Patch Cord Ethernet LAN Cable (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	267	18%	48.06	315.06
16	RJ45 Cat6 5 Meter Patch Cord Ethernet LAN Cable (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	416	18%	74.88	490.88
17	LC Type SC-LC Fiber Patch Cord 3 Mtr	As per MSETCL Existing Network ,Providing & Installation of 3 Mtr fiber patch cord with 1 GBPS support. Multi mode,Lucent Connector Type.	Each	1625	18%	292.5	1917.5
18	RJ45 LAN Cable connector (D-Link/Commscope)	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	25	18%	4.5	29.5
19	Cable Marker (Coated)	Numbers and Letters	Each	65	18%	11.7	76.7

Sr.No.	Description	Item Specification	Unit	Exclusive Rate	GST(%)	GST Amount	Total Amount
20	D-Link DGS-1008A 10/100/1000 Mbps Gigabit 8 ports Network Unmanaged Switch	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	2860	18%	514.8	3374.8
21	D-Link DGS-1024C 24-Port Gigabit Network Unmanaged Switch	1 Year Warranty or as actual if greater than 1 Year and Splicing is considered in services.	Each	8950	18%	1611	10561
22	SFP Module 1.2GBPS(Media Converter) / GBIC Pair (Syrotech/D-Link)	1.2GBPS transceivers, Standards and Protocols IEEE 802.3z, CSMA/CD, TCP/IP, Fiber Type 9/125 Lm Single-mode, Port Type LC/UPC.	Each	4200	18%	756	4956
23	Supply of 28 Port SFP Managed Layer 3 Ethernet Switch (10/100/1000 Gigabit, 4 SFP, Layer 3, Console, Rackmountable, Buffer Size: Min 1.5MB, Compatible With existing System, Switches & Firewall rules, Link Aggregation (LAG), VLAN interface, loopback interface)	Ethernet Managed Ethernet Switch of 24 ports with 2SFP+2Combo port & webview/CLI on provided rack or as directed as per specification no WG-NWC/GBS	Each	39000	18%	7020	46020
24	19" 6U WALL MOUNT RACK WITH WALL MOUNT PACKET	Wall mounted, toughened glass door, fan openings, Cable entry from top & bottom)	Each	6250	18%	1125	7375
25	6 PORT FO PATCH PANEL LOADED LIU	6 Port Patch Panel full loaded	Each	6250	18%	1125	7375
26	24 PORT FO PATCH PANEL LOADED FOR LIU	RJ45 Jack, RJ45 Jack Contact Material Phosphor bronze nickel plated, ABS Jack bracket set, Support Bar : SPCC, Minimum 1.5mm thickness colour painted, Contact Brackets : PBT + Glass fiber	Each	2650	18%	477	3127

Sd/-
Chief Engineer
EHV PC O&M Zone, Pune



Service Charges (IT AMC)

Schedule-'B'

Sr.No.	Description	Unit	Qty	Exclusive Unit Rate (Rate per Month)	GST(%)	GST Amount	Total Amount per Month including GST	Annual Amount including GST	Remark
A	B	C	D	E	F	G=E*F%	H = E + G	I=D*H	J
1	Annual Service charges for support and maintenance of IT infrastructure at Offices under Administrative Building, Rasta Peth, MSETCL, Pune with online support as per Scope of Work.	Per Month	12	22000	18%	3960	25960	311520	This shall be continuous basis during contract period.
2	Splicing & Termination of Fiber Optic Cable (Both ends)	Each	1	2000	18%	360	2360	NA	This shall be as & when required by MSETCL

Sd/-
Chief Engineer
EHV PC O&M Zone, Pune



Schedule-'C' - Penalty Clauses (IT AMC)

Sr.No.	Description	Unit	Penalty Calculation	Remarks
A	B	C	D	E
1	Absence of 1(One) Support Staff	Per Day	Flat Rs.1000/- (Rs. One Thousand Only/-)	When Support staff is absent, MSETCL will deduct mentioned charges per day from monthly bills or from SD of bidder, whichever is applicable.
2	Delay in 'Spares Installation' Or 'Support Staff'	Per Case	Flat Rs.200/- (Rs. Two Hundred Only/-)	Bidder will install Spare/s within one day after reporting. If he fails to install Spares within one day then MSETCL will install same spare/s by any third party agency & full cost of this work including penalty will be deducted from monthly bills or from SD of bidder ,whichever is applicable. Bidder is expected to keep sufficient inventory at location. Also,same Penalty applies to Support Staff is Not present for Support In-Time and delay in Service in mentioned time. Case to case basis MSETCL may allow more time for spares & services.
3	Unavailability of Tools on site	Per day	Flat Rs.100/- (Rs. One Hundred Only/-)	Bidder is expected to keep all required tools on the site. If tools are not present on the site, MSETCL will carry same work through any third party and full cost of this work including penalty will be deducted from monthly bills of bidder or from SD of bidder ,whichever is applicable. This applies to any Unavailability of software setup also.

Sd/-
Chief Engineer
EHV PC O&M Zone, Pune

FORM FOR QUOTING % RATE FOR ITEM INCLUDED IN SHEDULE 'A, B' & AS PER 'SCOPE OF WORK (ANNEXURE-A)' on the letterhead of Company/Agency

Name of Work: 'Annual Maintenance Contract (AMC) for one year for Computers (Desktops, Laptops and such a devices), Local area network (LAN) And allied devices of LAN, Printers, general purpose and system software including supply, installation & maintenance at MSETCL Offices in Administrative Building, Rasta Peth, Pune- 411 011 with online support services to MSETCL'.

Estimated Cost: Limited up to Rs. 10,00,000/- (Inclusive of GST)

I am ready to execute the above mentioned work to

1. _____% above (In words _____ above)
2. _____% below (In words _____ below)
3. At Par (As per Schedule-A,B)

of the estimated cost.

Dated _____

Signature _____

Note: 1. If the percentage variation is more or less than 5% detailed rate analysis should be enclosed.