

## FORMAT B.1

## Format for Technical Pre-Bid Queries

Tender No TPSODL/OT/22-23/78

Package Name Rate Contract for -----

Bidder : M/s -----

Note : The said format to be used only for Technical Pre-Bid Query. Any Commercial Query has to be strictly in Format B2.Format for Commercial Pre-Bid Query and sent separately

Format to be used for query regarding Technical Pre-Qualification Requirement, Safety Pre-Qualification Requirement, Technical Set of Document

Pre-Bid Query has to be sent in editable Excel file format only

Pre-Bid Query has to be sent through e-mail in TPSODL E-Tender System

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response	Bidder's Name & Contact Details
1	2	3	4	5	6
1		1)Do you require perpetual license or subscription based for backup software.	Kindly Clarify	Perputual license	
2		In server technical specification point no 16 you have mentioned that server should have roadmap for next 7 year but none of the OEM are ready to give for 1 single server.	Kindly Clarify	The supplied server should be in latest and should not be declared EOL by OEM for another 7 years.	
3	ANNEXURE I -Schedule for Items	SITC of Backup & Replication Software for 100 VM's including Enterprise plus features along with server hardware as per the specifications	PI provide no of physical server with CPU count per server to quote backup software licenses as VM based licensing favors to only one OEM and restrict other industry leader OEM's to participate	We require VM Based licensed (Most of the Major OEM commvalut, veritas, Veeeam supports VMs based license	
4	Technical Specifications for Backup Server	3. Backup server Minimum configuration as under:- Rack space (U) - 2U Max CPU - 8 core x 2 Socket or higher RAM - 64 GB HDD - 3.8 TB or Higher x 3 (SSD) HDD- 8 TB NLSAS x 10 nos HBA and NIC cards as required Fully loaded SFP Dual power supply Indian type Power cable	As per industry best practice backed up data must be store on disk backup appliance to protect data from even cyber threats, Storing backup data on backup server disk increases risk of data loss as data stored on backup server is vulnerable	NO change expect HDD capacity  1) HDD 3.8 TB SSD x 3 nos 2) HDD 8TB NLSAS(7.2K RPM or above) x 9 nos	
5	Technical Specifications for Backup Software	25. The proposed Backup software must offer host based licenses with no restrictions on type of arrays (protecting heterogenous storage technologies), front end production capacity or backup to disk target capacity restrictions. Licenses and associated hardware should be supplied for both primary and DR site.Licenses supplied should have licenses for Backup and Replication workloads with 5 years AMC support	PI provide no. of physical server with CPU count per server to quote backup software licenses as VM based licensing favors to only one OEM and restrict other industry leader OEM's to participate	We require VM Based licensed (Most of the Major OEM commvalut, veritas, Veeeam supports VMs based license	
6	Technical Specifications for Backup Software	31 Proposed backup software should be able to leverage Immutable Cloud based storage like S3-Immutable service to prevent backup copies of data from any corruption or ransomware attacks.	Ransomware protection is equally important on cloud as well as on on-prem. Request to amend the clause as " Proposed backup solution offers immutability for data stored on on-prem & on cloud to prevent backup copies of data from any corruption or ransomware attacks."	OK	
7	Technical Specifications for Backup Software	33. The proposed backup software should be able to integrate with anti-virus software and scan before recovery of VMs and ensure that any infected VM is not restored or restore it with disabled network adapters to prevent any infection to spread through the network	This clause is favoring one single OEM. Request to remove this clause for others to participate.	no change. The feature is very important while restoring any file/VM's.	
8	Technical Specifications for Backup Software	35 Backup software License should be provisioned for 100 VM's license from day one. It should support as per below backup policy.	PI provide no of physical server with CPU count per server to quote backup software licenses as VM based licensing favors to only one OEM and restrict other industry leader OEM's to participate	We require VM Based licensed (Most of the Major OEM commvalut, veritas, Veeeam supports VMs based license	
9	Technical Specifications for Backup Software	Proposed Solution must be sized appropriately to backup 100 VMs ( e.g.Flat File Data/Application/Virtual Environment) data as per below backup policies. a. Daily Incremental Backup – retained for 2 weeks b. Weekly Full Backup – retained for 04 Weeks c. Monthly Full Backup – Retained for 03 Months d. Quarterly Full Backup - Retained for 12 Months e. Yearly Full Backup - Retained for 05 Years 10% YoY growth for next 5 years with 1% daily change rate	PI provide data size to be backed up to size the solution, this details also needed along with provided details	Data size not applicable in case solution is based on VM's	

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10	Server Configuration	Backup server Minimum configuration as under:- Rack space (U) - 2U Max CPU - 8 core x 2 Socket or higher RAM - 64 GB HDD - 3.8 TB or Higher x 3 (SSD) HDD- 8 TB NLSAS x 10 nos HBA and NIC cards as required Fully loaded SFP Dual power supply Indian type Power cable	Please Make 8TB NLSAS Qty from 10 to 9 as server can support max of 12 drives. Technical Parameter Modification. It is Requisite since the Bay of all servers supports up to 12 Drives only.	1) HDD 3.8 TB SSD x 3 nos 2) HDD 8TB NLSAS(7.2K RPM or above) x 9 nos	
11		The integrated solution must provide single Graphical User Interface for backup, restore and management. The single GUI interface must provide management of backup software, disk based backup appliance.	Please remove this Point as we are not proposing appliance. Technical Solution not required as per present RFQ	All type backups ( TL , Disk based, Cloud) should be excuted by single console	
12		Backup software proposed should be in Gartner's leader quadrant for last four years in Gartner Magic Quadrant report for Data Protection / Backup Software	Magic Quadrant is a key tool used to assess the vendors vision and ability to execute. Pls include the clause as it will help Tata power to evaluate key set of Backup software vendors.	NA	
13		The proposed backup software should provide instant recoveries for any backup to Vmware or Hyper-V Virtual machine. It should also support the Instant VM recovery for AHV workloads as well.	This will help Tata power team to achieve near ZERO RPO and RTO.	NA	
14		Backup software should support instant database recoveries of MS SQL and Oracle from the backup files.	Mission critical database will have lowest recovery times ensuring business continuity.	NA	
15		Backup software must have a feature of data validation, whereby a workload (VM with OS and application) is powered-on in a sandbox environment and tested for its recoverability.	This will help Tata Power to achieve ISO Compliance.	NA	
16		Recovery verification should automatically boot the server from backup and verify the recoverability of VM image, Guest OS and Application Consistency and then publish automated reports to be used in backup / recovery audits.	This will help Tata Power in Audit and compliance.	NA	
18		Backup server Minimum configuration as under:- Rack space (U) - 2U Max CPU - 8 core x 2 Socket or higher RAM - 64 GB HDD - 3.8 TB or Higher x 3 (SSD) HDD- 8 TB NLSAS x 10 nos HBA and NIC cards as required Fully loaded SFP Dual power supply Indian type Power cable	3.84TB SSD is SFF drive & 8TB NLSAS is LFF drive. Both drive cannot be mixed & matched with every OEM Server except one particular OEM	NO change expect HDD capacity 1) HDD 3.8 TB SSD x 3 nos 2) HDD 8TB NLSAS(7.2K RPM or above) x 9 nos. In RFP we have not asked Form factor. All major OEM supports both mixing of SSD and NLSAS by using LFF	
19		Must support communications and data transfers through multiple interface types. The server must be offered with minimum 2 x 16Gbps FC Ports, 2 x 25Gbe Optical, 4 x 10 Gbe Optical, 4 x 10 Gbe BaseT ports	Maximum 2 x 16GB FC ports, 4 x 10G baseT, 2 x 10G SFP+ & 4 x 10/25G SFP available	No change	
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