



हाइड्रोकार्बन महानिदेशालय

(पेट्रोलियम और प्राकृतिक गैस मंत्रालय)

प्लॉट नंबर 2, ओआईडीबी भवन, सेक्टर 73, नोएडा-201301

दूरभाष: 0120 - 247 2000. ई-मेल: mm@dghindia.gov.in

Corrigendum 1 to tender MM-11011(11)/5/2018-DGH/ENQ-145 for Supply, Installation and Commissioning of Storage Space & LTO 7 tape drives

This corrigendum is issued to amend technical specifications, bid evaluation criteria, extend bid closing/opening date and to provide DGH's response to pre-bid queries.

A: Extension of bid closing/opening date

	In lieu of	Revised
Bid Closing Date	14.02.2019	18.02.2019
Bid Opening Date	15.02.2019	19.02.2019

B: Amendment to Technical Specifications & Bid Evaluation Criteria

Tender Clause	Existing terms	Amended terms
Payment Schedule Pgno#57 9. (i)	70% of material cost including taxes after receipt of all the Items as per Scope of Supply (Annexure-I) by DGH as per the terms and conditions of DGH supply order.....	70% of material cost including taxes after receipt of all the Items as per Scope of Supply (Annexure-IV) by DGH as per the terms and conditions of DGH supply order.....
Payment Schedule Pgno#57 9. (iii)	Payment of balance 10% of material cost would be retained towards the warranty support and will be released @ 2.5 % of material cost in four instalments	Payment of balance 10% of material cost would be retained towards the warranty support and will be released @ 2.5 % of material cost in four equal instalments. For Tape R/W Software, the four equal instalments will be on a quarterly basis over a period of one(1) year from the date of commencement of warranty of this software item. For all items other than Tape R/W Software, the four equal instalments will be released every nine months over a period of three(3) years from the date of commencement of warranty of these items.
Installation and Commissioning Pgno#55 3. (iv)	It will be the responsibility of the bidder to install all the LTO-7 Tape Drives with the existing workstations of DGH. Necessary Interface Cards are to be provided by the bidder.	It will be the responsibility of the bidder to install all the LTO-7 Tape Drives with the existing workstations of DGH. Necessary Interface Cards are to be provided by the bidder. The offered Tape R/W software is to be tested on the newly supplied Tape Drives under the scope of this tender.
Terms and Conditions of Warranty and Support Services Pgno#56 5. (iv)	iv. Anytime remote support through telephone/mail/remote login etc. must be available with regard to all storage, LTO-7 Tape drive related issues etc.	iv. Anytime remote support through telephone/mail/remote login/online support portal etc. must be available with regard to all storage, LTO-7 Tape drive, Tape R/W Software related issues etc.
Eligibility & Experience of Bidder under Annexure-III	The bidder must be either OEM or authorized by OEM of the offered products. Incase the bidder is not OEM for the offered products, Tender specific authorization from OEM in original is	The bidder must be either OEM or authorized by OEM of the offered products. Incase the bidder is not OEM for the offered products, Tender specific authorization from OEM in original is to be submitted along with the offer for a)

B.1 Technical Rejection Criteria Pgno#45 para 2.2	to be submitted along with the offer for a) Storage Hardware b) Tape Drives & c) Tape R/W Software. MAF format enclosed (as Annex-V) for both hardware and software OEM authorization.	Storage Hardware b) Tape Drives & c) Tape R/W Software. MAF format enclosed (as Annex-V) for both hardware and software OEM authorization. In case bidder is unable to submit the MAF in original along with other physical documents within the bid closing date and time, then, printed copy of the OEM signed MAF, duly certified and stamped by the bidder, can be submitted along with the bid. DGH reserves the right to verify the authenticity of the document with the OEM. The ink-signed original MAF in hard copy format should be submitted to DGH within a period of two (2) weeks from the date of Bid Closing.
Pgno#3 Sln#11 of 1.0	Performance Guarantee to be submitted only by the Successful Bidder : 7.5% of total order value valid for a period of 02 months beyond warranty period	Performance Guarantee to be submitted only by the Successful Bidder: i) The bidder has to submit two (2) Performance Guarantee, viz. (a) 7.5% of the value against Sln#2.2 of Annexure-V Price Format valid for a period of 02 months beyond warranty period of 1 year. (b) 7.5% of the value against all the other items (excluding Sln#2.2) of Annexure-V Price Format valid for a period of 02 months beyond warranty period of 3 years.
Price Schedule Page#61 and BOQ	Sl No#2.2 of Annexure-V & BOQ : Item Description: "Associated Tape R/W – S/w like Troica, Diplomat etc with perpetual License with 1 year maintenance & upgrade support."	"Associated Tape R/W – S/w with perpetual License with 1 year maintenance & upgrade support."
Price Schedule Page#61 and BOQ	Sl No#2.3 of Annexure-V & BOQ : Item Description "LTO 7 Tape Drives"	To be read as "LTO 7 Tape Cartridges."
ANNEXURE-IV : 2.3 : LTO-7(Qty-4) Tape Drives for PDC, Noida Page#52	Associated software such as Troika etc. which can Read/Write data from the LTO Tapes is required to be supplied bundled with Tape Drives. Latest software version along with 4-(Four) No's of perpetual licenses (with 1-year upgrade & maintenance support) are required to be supplied. The vendor should provide all patch updates version upgrades to DGH during the period of upgrade/warranty support on No cost basis to DGH. >This software will be used to copy data from LTO tape to LTO tape/ storage disc & vice versa in industry standard format such as SEG D/SEG Y/I-O SEG Y/RODE /TIFF 8 pertaining to E&P seismic data. >DGH is currently using the 3 modules, viz. Magma, Midi & Minima of Troika Software from Troika International Ltd. for this purpose. However, bidder may provide any other equivalent software such as Diplomat Software from Ovation Data Services having minimum equivalent features of these 3 modules of Troika software.	Associated software which can Read/Write data from the LTO Tapes is required to be supplied bundled with Tape Drives. Latest software version along with 4-(Four) No's of perpetual licenses (with 1 year upgrade & maintenance support) are required to be supplied. The vendor should provide all patch updates version upgrades to DGH during the period of upgrade/warranty support on No cost basis to DGH. >This software will be used to copy data from LTO tape to LTO tape/ storage disc & vice versa in industry standard format such as SEG D/SEG Y/I-O SEG Y/RODE /TIFF 8 pertaining to E&P seismic data. >DGH is currently using 3 modules, viz. Magma, Midi & Minima of Troika Software from Troika International Ltd. for this purpose. However, bidder may provide any other industry standard equivalent software (e.g. Diplomat from Ovation Data services etc.) having following minimum features to ensure compatibility with the existing transcription system.

C: DGH's Response to Pre Bid Queries

Company Name : M/s CCS Computers Pvt Ltd.					
Storage Capacity Upgradation: 80 TB Usable Disk Space + 2 Storage Controllers at PDC, Noida.					
S. No	Parameter	Functionality	Justification	Query	DGH's Response
1				Our understanding is that we can propose new storage for 80TB capacity.	The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements It has been clarified that expansion of existing LUN is a requirement in view of the tender being addition of storage capacity to the existing storage solution at DGH
2	Cache	Storage Controller Array should be offered with 48GB of Data Cache across Dual Controllers. 24 GB for each Controller. Existing Cache across existing Dual Controllers is 48GB. Total available cache after addition of new cache would be minimum 96GB		Our understanding is that the proposed storage should be proposed with 48GB cache across dual controller. Incase of upgrade to existing storage cache the total after upgrade of cache should be total 96GB. Please confirm if our understanding is correct.	Total available cache after addition of new cache should be minimum 96GB including existing cache of 48GB across Dual Controllers.
3	Thin Provisioning and Space optimization	1. Offered storage solution shall support Thin provisioning and Thin Re-claim to make the volume thin for an extended period of time for complete array supported raw capacity.2. Offered storage solution shall support data reduction feature of in-line De-duplication and in-line Compression for volumes. Vendor shall support both in-line de-duplication and in-line compression on a given volume simultaneously.	On spinning disks there will not be much benefit by enabling De-Dup and compression because De-Dup and Compression puts extra load on controllers. Usually it give more benefit on SSD disks.	Data Reduction works best on SSD disks as their response times are lower as compared to Spinning disks. We support Compression and Deduplication on All flash pools but not on pools containing spinning disks, trust same is okay with DGH.	Minimum requirement is specified in the tender. Compression and Deduplication on All flash pools is acceptable provided the same fulfills all other requirements specified in the tender.
4	Completeness of Solution offered	"Any additional resource/ accessory, eg SAN Switch, SFP+ Module, Storage Controller, Server/ Storage Rack, FO Cable, LAN switch, adapters, power supply etc .required for completeness of the solution must be provided by the vendor, at no additional cost to DGH. To ascertain the extent of additional requirement, vendors may visit PDC site at DGH, OIDB, Noida & SDC site at STPI, Bhubaneswar accompanied by DGH IT personnel. It is the sole responsibility of the vendor to make the system operational in the desired manner."		Kindly suggest Model of existing switches, Total ports and ports available for additional connectivity. Request you to also define distance of switches from the proposed location of new storage so that bidders can provision cable lengths. Also number of server on which the SAN storage to be made visible.	>PDC SAN Switch : HP SN 6000B No of SAN Switch : 2, configured in HA. Empty Ports : 5 & 8. >SDC SAN Switch : HP SN 6000B No of SAN Switch : 1. Empty Ports : 8. >Distance of SAN Switch from New Storage : Approx 4/5 metres >No of Servers in PDC:14 & No of Servers in SDC:10
5	Remote Replication	The storage system array should have hardware based data replication & should be able to replicate data from PDC Storage at DGH, Noida to/from DR Storage, BBSR, Odisha through a dedicated 100 Mbps MPLS Link. Existing replication license upgrade if any to be provided.		Please confirm if our understanding is correct that replication license should be provisioned with new arrays and this license shall be good to replicate upgraded capacity of 80TB to DR at storage level.	The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements. Replication of data between PDC and SDC is a necessary requirement. Additional licenses, if required, must be provided to fulfill this requirement.

Storage Capacity Upgradation: 80 TB Usable Disk Space at SDC, BBSR, Odisha

S. No	Parameter	Functionality	Justification	Query	DGH's Response
1				Our understanding is that we can propose new storage for 80TB capacity.	>The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements >It has been clarified that expansion of existing
2	Cache	Storage Controller Array should be offered with 48GB of Data Cache across Dual Controllers. 24 GB for each Controller. Existing Cache across existing Dual Controllers is 48GB. Total available cache after addition of new cache would be minimum 96GB		Our understanding is that the proposed storage should be proposed with 48GB cache across dual controller. Incase of upgrade to existing storage cache the total after upgrade of cache should be total 96GB. Please confirm if our understanding is correct.	To be guided by tender requirements for SDC, BBSR, Odisha
3	Thin Provisioning and Space optimization	1. Offered storage solution shall support Thin provisioning and Thin Re-claim to make the volume thin for an extended period of time for complete array supported raw capacity.2. Offered storage solution shall support data reduction feature of in-line De-duplication and in-line Compression for volumes. Vendor shall support both in-line de-duplication and in-line compression on a given volume simultaneously.	On spinning disks there will not be much benefit by enabling De-Dup and compression because De-Dup and Compression puts extra load on controllers. Usually it give more benefit on SSD disks.	Data Reduction works best on SSD disks as their response times are lower as compared to Spinning disks. We support Compression and Deduplication on All flash pools but not on pools containing spinning disks, trust same is okay with DGH.	To be guided by tender requirements for SDC, BBSR, Odisha
4	Completeness of Solution offered	"Any additional resource/ accessory, eg SAN Switch, SFP+ Module, Storage Controller, Server/ Storage Rack, FO Cable, LAN switch, adapters, power supply etc .required for completeness of the solution must be provided by the vendor, at no additional cost to DGH. To ascertain the extent of additional requirement, vendors may visit PDC site at DGH, OIDB, Noida & SDC site at STPI, Bhubaneswar accompanied by DGH IT personnel. It is the sole responsibility of the vendor to make the system operational in the desired manner."		Kindly suggest Model of existing switches, Total ports and ports available for additional connectivity. Request you to also define distance of switches from the proposed location of new storage so that bidders can provision cable lengths. Also number of server on which the SAN storage to be made visible.	> PDC SAN Switch : HP SN 6000B No of SAN Switch : 2, configured in HA. Empty Ports : 5 & 8. > SDC SAN Switch : HP SN 6000B No of SAN Switch : 1. Empty Ports : 8. >Distance of SAN Switch from New Storage : Approx 4/5 metres >No of Servers in PDC :14 & No of Servers in SDC :10
5	Remote Replication	The storage system array should have hardware based data replication & should be able to replicate data from PDC Storage at DGH, Noida to/from DR Storage, BBSR, Odisha through a dedicated 100 Mbps MPLS Link. Existing replication license upgrade if any to be provided.		Please confirm if our understanding is correct that replication license should be provisioned with new arrays and this license shall be good to replicate upgraded capacity of 80TB to DR at storage level.	The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements. Replication of data between PDC and SDC is a necessary requirement. Additional licenses, if required, must be provided to fulfill this requirement.
General					

S No	Parameter	Functionality	Justification for Amendments	Query	DGH's Response
1	14.0 PERIOD OF VALIDITY OF BIDS	The Bid shall be valid for 90 days after the date of bid opening for acceptance for the period as indicated in the "Invitation for Bid" (hereinafter referred to as validity period) and shall not be withdrawn on or after the opening of bids till the expiration of the validity period or any extension agreed thereof.		We request DGH to Confirm the Validity of Bid from the Date of Opening of Technical Bid or Commercial Bid!	Bid should be valid for 90 days from opening of Technical Bid
2	9. Payment Schedule	<p>i. 70% of material cost including taxes after receipt of all the Items as per Scope of Supply (Annexure-I) by DGH as per the terms and conditions of DGH supply order. The materials upon receipt will be jointly inspected by DGH & the vendor. If any hardware material received at specified delivery locations of PDC, Noida & SDC, BBSR, Odisha is found be in physically damaged condition and/or is found to have undergone water leakage, then the same will be considered dead on arrival & has to be replaced for delivery of materials to be considered complete for release of 70% payment.</p> <p>ii. 20% of material cost including taxes and 100% Installation/ commissioning charges including taxes will be released after (i) successful completion of installation & commissioning and (ii) completion of one month's testing period post commissioning date as per the scope of work.</p> <p>iii. Payment of balance 10% of material cost would be retained towards the warranty support and will be released @ 2.5 % of material cost in four installments.</p>		<p>i. 80% of material cost including taxes after receipt of all the Items as per Scope of Supply (Annexure-I) by DGH as per the terms and conditions of DGH supply order. The materials upon receipt will be jointly inspected by DGH & the vendor. If any hardware material received at specified delivery locations of PDC, Noida & SDC, BBSR, Odisha is found be in physically damaged condition and/or is found to have undergone water leakage, then the same will be considered dead on arrival & has to be replaced for delivery of materials to be considered complete for release of 70% payment.</p> <p>ii. 10% of material cost including taxes and 100% Installation/ commissioning charges including taxes will be released after (i) successful completion of installation & commissioning and (ii) completion of one month's testing period post commissioning date as per the scope of work.</p> <p>iii. Payment of balance 10% of material cost would be released on submission of Performance Bank Gurantee of equivalent balance amount till completion of warranty period.</p>	Refer to amendments
3	7. Time lines for Delivery, Installation, Configuration & Commissioning, and Testing:	<p>Delivery of items against 2.1 & 2.3 will be at PDC, Noida.</p> <p>Delivery of items against 2.2 will be at SDC, BBSR, Odisha: Within 8 (Eight) weeks from date of LoA</p>	We request DGH to Amend the Delivery Period from 8 weeks to 8-10 weeks as these enterprise level of products havig back to back Delivery arrangements min. 8-10 weeks from all leading OEMs.		Not Agreed; To be guided by relevant tender terms

4	7. Time lines for Delivery, Installation, Configuration & Commissioning, and Testing:	Installation, Configuration & Commissioning. Within 10 (Ten) weeks from date of LoA	We request DGH to Amend the Installation time from 10 weeks from the date of LoA to 10-12 weeks from date of LoA as Scope of work is very vaste and Migration of DATA is also involve and to implement the solution in a effective manner we need additional time.		Not Agreed; To be guided by relevant tender terms
5	15.0 BID SECURITY	15.2 MSEs eligible as per Ministry of MSME's guidelines, and Government Departments will be exempted from Bid Security, provided the bidder submits necessary evidence for eligibility, along with the bid.		We request for your kind intervention & consideration on below request; * As we are Registered Company with office of NSIC & MSME, Govt of India, New Delhi - your acceptance is requested to submit the valid NSIC and MSME certificate instead of & Bid Security (EMD) amount.	Exemption for submission of EMD allowed as per prevailing Govt. Provisions

Company Name : M/s Pan India Consultants Pvt. Ltd

S.No		Reference in Tender / Area of Concern.		Query	DGH's Response
1		BID EVALUATION CRITERIA- Page 45 B.1 Technical rejection criteria 2.3 The bidder must have successfully executed at least 2 orders for the supply of storage solutions of 100 TB each or more to any Government Agency/PSU/listed company/etc in the past 3 years from the date of bid closing. Documentary evidences like purchase orders / equivalent documents showing operations of such jobs along with completion Certificate(s) or payment certificates or any other documents which substantiate completion of the jobs, issued by the client(s) with contact details of the issuing person/organization (e-mail address, Phone Number, Fax number etc.) must be submitted along with the bid.		This technical Rejection criteria is in favour of Hardware Vendor and in such case Software vendor will not be able to meet this criteria and will not able to participate in this tender. We request you to kindly remove this criterion or Similar appropriate criteria should be added to enable Software Vendors to participate in the tender.	Not Agreed; To be guided by relevant tender terms
2	General			We request to split this tender into following two parts. a) Hardware (Storage and LTO-7 Drive) b) Data (Seismic and Well Log) Archival/ Transcription Software	Not Agreed; To be guided by relevant tender terms
3	General			Can we submit bid as Consortium of two companies (hardware and Software Separately) and Payment is directly made to the respective company by DGH.	Not Agreed; To be guided by relevant tender terms

4	General			Whether EC for concessional Custom Duty will be available for the supply under this tender.	No
5		Scope of Work/ Technical Specification – Page48		For which Operating System , the Tape-R/W software will be required	Already Specified in Section 1.3 of Tender Document under: "Existing System Details".
Company Name : M/s CI Infotech Pvt Ltd					
S.No				Query	DGH's Response
1				The asked software for LTO Tape Drives are proprietary items of respective OEMs who have no Office presence in India and neither do they have any distribution network for sales, support and training. It would be difficult for the System Integrator to maintain the required SLA, procure the item and arrange OEM Training for the required software hence we would request for the necessary modification/changes in the Bill of Material and would suggest DGH to buy the required Software of their own.	Not Agreed; To be guided by relevant tender terms
Company Name : M/s Progression Infonet Pvt. Ltd.					
S.No		Reference in Tender / Area of Concern.		Query	DGH's Response
1		Payment Schedule Payment of balance 10% of material cost would be retained towards the warranty support and will be released @ 2.5 % of material cost in four installments.		Since Supplier is providing PBG also, and hence this clause should be removed and 10% should be added in Point (ii)	Refer to Amendments
Company Name : M/s Dell EMC					
Storage Capacity Upgradation: 80 TB Usable Disk Space + 2 Storage Controllers at PDC, Noida.					
S.N o	Parameter	Functionality	Justification	Query	DGH's Response
1				Our understanding is that we can propose new storage for 80TB capacity.	>The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements >It has been clarified that expansion of existing LUN is a requirement in view of the tender being addition of storage capacity to the existing storage solution at DGH
2	Cache	Storage Controller Array should be offered with 48GB of Data Cache across Dual Controllers. 24 GB for each Controller. Existing Cache across existing Dual Controllers is 48GB. Total available cache after addition of new cache would be minimum 96GB		Our understanding is that the proposed storage should be proposed with 48GB cache across dual controller. Incase of upgrade to existing storage cache the total after upgrade of cache should be total 96GB. Please confirm if our understanding is correct.	Total available cache after addition of new cache should be minimum 96GB including existing cache of 48GB across Dual Controllers.

3	Thin Provisioning and Space optimization	1. Offered storage solution shall support Thin provisioning and Thin Re-claim to make the volume thin for an extended period of time for complete array supported raw capacity.2. Offered storage solution shall support data reduction feature of in-line De-duplication and in-line Compression for volumes. Vendor shall support both in-line de-duplication and in-line compression on a given volume simultaneously.	On spinning disks there will not be much benefit by enabling De-Dup and compression because De-Dup and Compression puts extra load on controllers. Usually it give more benefit on SSD disks.	Data Reduction works best on SSD disks as their response times are lower as compared to Spinning disks. We support Compression and Deduplication on All flash pools but not on pools containing spinning disks, trust same is okay with DGH.	Minimum requirement is specified in the tender. Compression and Deduplication on All flash pools is acceptable provided the same fulfills all other requirements specified in the tender.
4	Completeness of Solution offered	"Any additional resource/ accessory, eg SAN Switch, SFP+ Module, Storage Controller, Server/ Storage Rack, FO Cable, LAN switch, adapters, power supply etc .required for completeness of the solution must be provided by the vendor, at no additional cost to DGH. To ascertain the extent of additional requirement, vendors may visit PDC site at DGH, OADB, Noida & SDC site at STPI, Bhubaneswar accompanied by DGH IT personnel. It is the sole responsibility of the vendor to make the system operational in the desired manner."		Kindly suggest Model of existing switches, Total ports and ports available for additional connectivity. Request you to also define distance of switches from the proposed location of new storage so that bidders can provision cable lengths. Also number of server on which the SAN storage to be made visible.	>PDC SAN Switch : HP SN 6000B No of SAN Switch : 2, configured in HA. Empty Ports : 5 & 8. >SDC SAN Switch : HP SN 6000B No of SAN Switch : 1. Empty Ports : 8. >Distance of SAN Switch from New Storage : Approx 4/5 metres >No of Servers in PDC:14 & No of Servers in SDC:10
5	Remote Replication	The storage system array should have hardware based data replication & should be able to replicate data from PDC Storage at DGH, Noida to/from DR Storage, BBSR, Odisha through a dedicated 100 Mbps MPLS Link. Existing replication license upgrade if any to be provided.		Please confirm if our understanding is correct that replication license should be provisioned with new arrays and this license shall be good to replicate upgraded capacity of 80TB to DR at storage level.	The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements. Replication of data between PDC and SDC is a necessary requirement. Additional licenses, if required, must be provided to fulfill this requirement.
Storage Capacity Upgradation: 80 TB Usable Disk Space at SDC, BBSR, Odisha					
S.No	Parameter	Functionality	Justification	Query	DGH's Response
1				Our understanding is that we can propose new storage for 80TB capacity.	>The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements >It has been clarified that expansion of existing LUN is a requirement in view of the tender being addition of storage capacity to the existing storage solution at DGH
2	Cache	Storage Controller Array should be offered with 48GB of Data Cache across Dual Controllers. 24 GB for each Controller. Existing Cache across existing Dual Controllers is 48GB. Total available cache after addition of new cache would be minimum 96GB		Our understanding is that the proposed storage should be proposed with 48GB cache across dual controller. Incase of upgrade to existing storage cache the total after upgrade of cache should be total 96GB. Please confirm if our understanding is correct.	To be guided by tender requirements for SDC, BBSR, Odisha

3	Thin Provisioning and Space optimization	1. Offered storage solution shall support Thin provisioning and Thin Re-claim to make the volume thin for an extended period of time for complete array supported raw capacity.2. Offered storage solution shall support data reduction feature of in-line De-duplication and in-line Compression for volumes. Vendor shall support both in-line de-duplication and in-line compression on a given volume simultaneously.	On spinning disks there will not be much benefit by enabling De-Dup and compression because De-Dup and Compression puts extra load on controllers. Usually it give more benefit on SSD disks.	Data Reduction works best on SSD disks as their response times are lower as compared to Spinning disks. We support Compression and Deduplication on All flash pools but not on pools containing spinning disks, trust same is okay with DGH.	To be guided by tender requirements for SDC, BBSR, Odisha
4	Completeness of Solution offered	"Any additional resource/ accessory, eg SAN Switch, SFP+ Module, Storage Controller, Server/ Storage Rack, FO Cable, LAN switch, adapters, power supply etc .required for completeness of the solution must be provided by the vendor, at no additional cost to DGH. To ascertain the extent of additional requirement, vendors may visit PDC site at DGH, OIDB, Noida & SDC site at STPI, Bhubaneswar accompanied by DGH IT personnel. It is the sole responsibility of the vendor to make the system operational in the desired manner."		Kindly suggest Model of existing switches, Total ports and ports available for additional connectivity. Request you to also define distance of switches from the proposed location of new storage so that bidders can provision cable lengths. Also number of server on which the SAN storage to be made visible.	> PDC SAN Switch : HP SN 6000B No of SAN Switch : 2, configured in HA. Empty Ports : 5 & 8. > SDC SAN Switch : HP SN 6000B No of SAN Switch : 1. Empty Ports : 8. >Distance of SAN Switch from New Storage : Approx 4/5 metres >No of Servers in PDC :14 & No of Servers in SDC :10
5	Remote Replication	The storage system array should have hardware based data replication & should be able to replicate data from PDC Storage at DGH, Noida to/from DR Storage, BBSR, Odisha through a dedicated 100 Mbps MPLS Link. Existing replication license upgrade if any to be provided.		Please confirm if our understanding is correct that replication license should be provisioned with new arrays and this license shall be good to replicate upgraded capacity of 80TB to DR at storage level.	The offered storage solution must be compatible with the existing system as an integrated solution & fulfill the tender requirements. Replication of data between PDC and SDC is a necessary requirement. Additional licenses, if required, must be provided to fulfill this requirement.