

**ISLAMI BANK BANGLADESH LIMITED
OPERATIONS WING
ENGINEERING DIVISION
HEAD OFFICE, DHAKA**

Based on recommendation of Pre bid meeting held on 19.11.2018 the following amendments has been made by the authority of IBBL into the tender document relating to Tender for up grading of Oracle Exadata as on 25.11.2018:

Section	Description in Tender Document	Query/Suggestion of the Bidder	Amendment/ Answer
Client Connectivity (Page-19)	4xDual port 10GBase-T	Q1. In Solution-1b in number 7 row for SPARC T8-2 server please ensure the number of Quad port 10GBase-T adapter instead off 4xDual port 10GBase-T adapter (because 10GBase-T adapter is not available for SPARC T8-2 server)	2 x Quad port 10GBase-T
Hard Disk Drive (Page-23)	4x600GB SAS (10K RPM) Disks up to 6 HDD/SSD.	Q2. In Solution-2b in number 11 row for SPARC T8-2 server please change the disk size from 600 GB to 1.2 TB (because 600GB disk will not order after February'2019, it will be EOL)	4x1.2 TB SAS (10K RPM) Disks up to 6 HDD/SSD.
Network Cards (Page-24)	2x10G Dual Port Cards	Q3. In Solution-2b in number 17 row for SPARC T8-2 server please ensure the number of Quad port 10GBase-T adapter instead off 4xDual port 10GBase-T adapter (because 10GBase-T adapter is not available for SPARC T8-2 server)	2x10G Quad Port Cards
Database Storage Software license (Page-17 & 20)	Mention the required license only. Existing license will cover.	Q4. In Solution-1a and 2a please let us know the number of Database storage software license is using currently. IS the current license will be used for the new solution?	License: 168. Yes current license will be used.
		General and Financial: Q1. Please share the existing Oracle Database CSI# to share support price from 2 nd year. Q2. Will we able to submit Technical Documents (Like-All Manual for HW & SW) in Media (CD or DVD) since these documents contains more than 1000 pages?	General and Financial: CSI# 18893651, 18895490 & 19074093, 19019477 19019477 All manual for HW & SW may be submitted in CD or DVD

<p>Delivery & Implementation (Page-14)</p>	<p>Delivery time-60 days Implementation time-90 days.</p>	<p>Q3. We agree the Deliver Lead time 60 Days but for implementation 30 Days is not enough. Please extend the time-line.</p> <p>Migration:</p> <p>Q1. What is the current database VERSION and SIZE for CBS and CMS?</p> <p>Q2. Is there any plan to upgrade database version?</p> <p>Q3. Currently how the CBS and CMS backup is taking?</p> <p>Q4. IS EXPDP/IMPDP used or not?</p> <p>Q5. If EXPDP/IMPDP is used then what is the biggest Table size number and size? And partitioning is used or not by table?</p>	<p>Total work completion dead line will be 100 days including 60 days delivery deadline.</p> <p>Migration: The current version of database is Oracle 11.2.0.4 and Grid Infrastructure is 12.2.0.1, SIZE for CBS and CMS will be informed if required.</p> <p>Yes, Upgrade to 12c latest version.</p> <p>RMAN backup to external storage Dell SC9000.</p> <p>No.</p> <p>Not required.</p>
<p>Database Storage Capacity (Page-17 & 20)</p>	<p>Minimum 100 Cores for SQL processing & Minimum 115 TB or higher</p>	<p>Q1. For solution 1a. Super cluster storage capacity is not mentioned whereas in solution 2a. Exadata storage size is mentioned</p>	<p>Minimum 100 Cores for SQL processing & Minimum 600TB raw</p> <p>Core Banking: 76.8 TB, Card System: 38.4 TB (Both DC & HDR)</p>
<p>External HBA (Page-17)</p>	<p>FC, IB</p>	<p>Q2. For solution 1a no FC/IB quantity is not mentioned</p>	<p>FC – 4 in DC, 2 in HDR</p> <p>Additional Quantity</p>

<p>License requirement for Solution (Page-19)</p>	<p>Additional Quantity Required</p> <p>Oracle Real Application Clusters-0</p> <p>Advanced Security Options-150</p> <p>Partitioning-100</p>	<p>Q3. For Licensing policy Advanced Security and Partitioning Exadata/ODA needs (50+50) whereas SuperCluster/Minicluster needs (150+100)</p> <p>Q4. For Solution-1 (a&b) DB (CBS & CMS) and Application (CMS) will run with RAC/Cluster in SuperCluster in DC and HDR, CBS and UAT DB in MiniCluster for DRS and CMS App DB in T8-2 whereas in Solution-2 (a&b) only CBS and CMS DB will run in Exadata and CMS app in T8-2 for DC and HDR without cluster, CBS/Test/UAT DB in Exadata 1/8 Rack, CMS//Test/UAT DB in ODA X7-2M for DRS and no application server mentioned in DRS.</p>	<p>Required</p> <p>Oracle Real Application Clusters-100</p> <p>Advanced Security Options-50</p> <p>Partitioning-50</p> <p>Existing T4-I servers will be used as Application server in DRS.</p>
<p>Warranty Period (Page-7)</p>	<p>The full warranty including labor & spares provided for hardware must be for a period of at least 01 (one) year for Oracle Exadata/ODA/ SuperCluster/MiniCluster and 03 (three) years for Oracle SPARC T8-2 Server from the date of live operation (i.e. supply, installation, commissioning, UAT, training, migration of existing system to new system and go live) of the proposed solution respectively free of charges.</p>	<p>Q1. What is the warranty period?</p>	<p>The full warranty including labor & spares provided for hardware must be for a period of at least 01 (one) year for Oracle Exadata/ ODA/ Super Cluster/ Mini Cluster and 03 (three) years for Oracle SPARC T8-2 Server from the date of live operation (i.e. supply, installation, commissioning, UAT, OAT, training, migration of existing system to new system and go live) of the proposed solution.</p>

<p>Tender Submission (Page-05)</p>	<p>Tender Sold: Up to 27.11.2018 Tender Submission: 28.11.2018</p>	<p>Q2. Who and where will be inspection?</p> <p>Q3. Number of participants for each training?</p> <p>Additional:</p> <p>Q1. We want to propose new solution by adding One Super Cluster at DRS with Same configuration of DC and HDR for optimum solution. Then we did not need any Mini Cluster and SPARC T8-2 servers.</p> <p>Q2. We request for extension of submission time for another 15 days instead of 28/11/2018</p>	<p>Inspection will be done after reaching the hardware on site that is onsite inspection by the nominated officials of the Bank.</p> <p><i>Local training 10 participants</i> Onsite training 10 participants Offshore training 10 participants <i>offshore training 09 participants</i></p> <p>Additional:</p> <p>The proposal of one additional Super Cluster at DRS is subject to acceptance of the design.</p> <p>Tender will be sold Sold: Up to 04.12.2018 during office hours.</p> <p>Tender Submission: 05.12.2018 within 3.00PM.</p>
<p>Migration & scope of work (Page-25 & 26)</p>	<p>"The Bidder have to migrate----- "The bidder will be responsible-----"</p>	<p>1. (Pg- 26) "The Bidder have to migrate all existing databases to the" (Pg-25) Scope of Work (2.1 E) "The bidder will be responsible for hand holding and supervisory services for migration.... ." - Will bidder be responsible for the migration? If yes, please mention the number of databases, their size and database version?</p> <p>2. (Pg-2) Can bidder submit both solutions (1 & 2) in one bid submission?</p> <p>3. Will bidder be responsible for preparation of Migration Approach and methodology? If yes, is this a requirement for bid submission?</p> <p>4. Does bidder need to provide comprehensive project plan, risk, quality, migration, conversion, resource, and change and communication management plan in the bid submission?</p>	<p>Yes. The number of databases is 3, their size is 12 TB and database version is Oracle 11.2.0.4 and Grid Infrastructure is 12.2.0.1</p> <p>As mentioned in the Tender document earlier.</p> <p>Migration plan should be presented by the bidder. Yes, it is a requirement for bid submission.</p> <p>The bidder have to provide comprehensive project plan, risk, quality, migration, conversion, resource, and change and communication management plan in the bid</p>

<p>Processor & RAM Supported (Page-17)</p>	<p>Processor: Minimum 128 RISC based cores with 5.00 GHz or higher in each compute server chassis distributed in 2 physical domains. Total 256 Cores and Upgradable to 512 Cores RAM: Minimum 4 TB per compute server chassis. Total 8 TB and upgradable up to 16 TB</p>	<p>5. (Pg-17) In Super Cluster, number of Processor is not mentioned in DC & HDR</p> <p>10. Five T8 server is needed with Solution-2 (b) for CMS app</p> <p>11. Please confirm the site names for clear understanding: DC = Dilkusha, HDR (Near DR) = Kakhrail and DRS (Far DR) = Rajshahi</p> <p>12. For best interest of IBBL, we would like to request the following amendments in the RFP: a. Solution 1 (SuperCluster option): 3 SuperCluster in 3 sites (details spec in each site Oracle will share with IBBL) b. Solution 2 (Exadata option): Need to add 3 more T8-2 server for CMS (total-5) application & 1 ZFS atorage in DRS for CMS application since existing Sun storage already EOL & EOSL.</p>	<p>submission.</p> <p>DC: Minimum 128 RISC based cores with 5.00 GHz or higher in each compute server chassis distributed in 2 physical domains. Total 256 Cores and Upgradable to 512 Cores</p> <p>HDR: Minimum 96 RISC based cores with 5.00 GHz or higher in each compute server chassis distributed in 2 physical domains. Total 192 Cores and Upgradable to 512 Cores</p> <p>DC: Minimum 4 TB per compute server chassis. Total 8 TB and upgradable up to 16 TB</p> <p>HDR: Minimum 3 TB per compute server chassis. Total 6 TB and upgradable up to 16 TB</p> <p>Not required</p> <p>DC (Data centre) at Dilkusha, HDR (Hot DR_ Near DR) at Kakhrail and DRS (Far DR) at Rajshahi.</p> <p>12. a. Accepted. Detail technical specification is attached herewith. b. Not required</p>
<p>Bidders Qualification (Page-2)</p>		<p>1. Under 2.0, Bidder's Qualification - requesting to have below changes to allow fair participation of the interested companies: a. This 2.1.2 clause needs to be removed "If bidder is a joint venture</p>	<p>Sufficient local technical manpower & logistic support is essential for such type of mission critical system support in case of any maintenance and disaster time.</p>

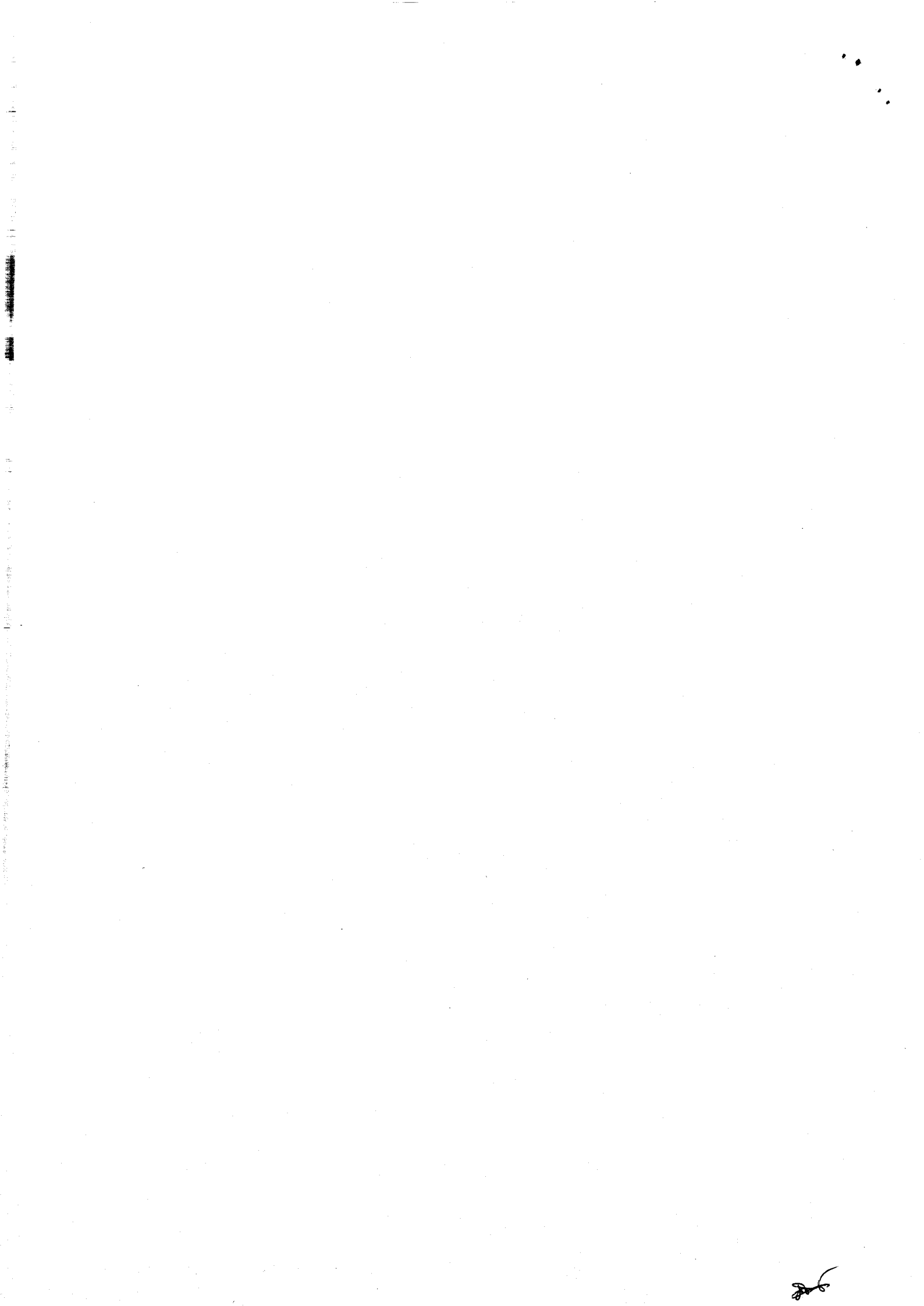
		<p>with any foreign company then The local company should have sufficient financial solvency with sufficient relevant technical manpower with necessary expertise. "</p> <p>Comments: The reason local company would participate with a foreign company is to have requited technical manpower and expertise to make the project successful. Hence, this clause is quite against the fundamentals of allowing a foreign company participation with a local company for joint-venture submission of the RFP response proposal.</p> <p>b. This clause 2.1.12 needs to be removed " The bidders have to submit a latest Bank Solvency Certificate from any scheduled Bank of the country showing minimum balance amounting to Tk. 15 Crore or above"</p> <p>Comments: As the bidders are already required to submit bid bond, this clause does not allow fair participation as may be only handful of companies would keep the required balance in the account.</p> <p>Again, as the bid allows foreign participation with local entity via joint venture submission, the wording "any scheduled Bank of the country" is inaccurate as the foreign partner of local company could provide this supportive figure from even any foreign bank.</p> <p>We are requesting the amendment to have as " The bidders have to submit a latest Bank Solvency Certificate from any scheduled local Bank/international Bank for 15 Croe BDT or equivalent foreign currency amount"</p> <p>NOTE: It should not have any string attached as showing minimum balance as not too many organizations keep 15 Croe BDT idle in current bank account.</p>	<p>"The bidders have to submit a latest Bank Solvency Certificate from any scheduled Bank of the country for an amount equivalent to the bid price"</p> <p>2. As it is a mission critical</p>
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<p>Evaluation & Comparison of Bids (Page-11)</p>	<p>Evaluation Criteria & Weightage/ score/ marks</p>	<p>2. Under Bidder qualification, 2.0 (2.1.1) – it has been mentioned that "Certificate of incorporation and years of business is required". Comments: We are requesting for amendment to remove "Certificate of incorporation" requirement as it is only applicable for Limited company. For proprietorship or partnership company – Trade license shows the proof of incorporation and this type of company is legal/valid under the business law of Bangladesh.</p> <p>4. Under clause 24.0 Evaluation and comparison of bids (Evaluation Criteria & respective weight/ Score/ Marks for the Technical Offers: Table-1) – below needs to be changed: a. Partnership information of the bidder- b. Partnership level (Platinum/Gold) – For Platinum -7, Gold-5 c. Partnership duration with Oracle- (Maximum 10 years or above will get highest number that is 5, for 9 years 4, 8 years 3, 7 years 2 and for minimum 5 years no. will be 1. No fraction period will be evaluated) Partnership agreement with Oracle (for relevant product) to provide after sales service (Post Sales) Comments: Partnership level – no points been allocated for Specialized partner, for example Engineered Systems Specialized. This is more important than partnership duration and hence requesting to move 5 points from Partnership duration to Specialized Partner. Comments: Partnership agreement with Oracle (post sales) –this clause seems to be unnecessary as client would be having Oracle support upon purchase and with valid AMC; hence requesting to remove it.</p> <p>5. Under clause 24.0 Evaluation and comparison of bids (Evaluation</p>	<p>system, implementation & maintenance issue for at least 6 to 7 years , company strength need to be consider</p> <p>4. For evaluating a company partnership is essential for analyzing company strength as well as compliance of the country as per law of the country.</p> <p>5. Not accepted</p>
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<p>Annexure-II: Heading (Page-19) 20</p> <p>Technical Specification at DC & HDR</p>	<p>Solution No.2(a)</p> <p>Sl. 05: No. of Compute Servers</p> <p>Sl. No. 06: Physical Servers</p> <p>Sl. No. 08: Processors</p> <p>Sl. No. 16: Database Storage flash capacity</p>	<p>Criteria & respective weight/ Score/ Marks for the Technical Offers: Table-1) - We are requesting below points to be removed as these clauses been crafted focusing financials only whereas bid bond (2.5% of the project value) should address any financial need for this tender itself:</p> <p>(5) The bidder should mention the turnover/revenue from IT related business in last 5 years. Appropriate documents should be submitted to prove the supplied amount. (Highest amount will get highest number and other will get proportionately)</p> <p>(10) Submission of Legal papers and Certifications from concerned authority (Trade License with validity period, proof of submitting tax return, Income Tax Certificate and VAT registration certificate in the latest fiscal year. Any pending case of Income Tax Certificate/Tax return/VAT registration certificate will get 0 (Trade License-1, VAT-2 and Income Tax-2 for the year 2015-17)</p> <p>(11) Financial strength of the company (Audited balance sheet of last 2 years will be considered): The bidder should have annual turnover of BDT-50 Crores for each year, during last 02 (two) consecutive financial years ending 31.12.2017. For turnover of BDT- 50 crores & above number will be 5, for turnover of BDT 30 to 50 crores number will be 3, for turnover of BDT 10 to 30 crores number will be 5 and turnover of BDT less 10 crores number will be 0.</p> <p>Technical specification of Exadata X7 - 2 or Higher Quarter Rack for CBS & Card Database at DC & HDR</p> <p>05</p> <p>03 (Core Banking) 02 (Card System)</p> <p>06 (Core Banking) 02 (Card System)</p> <p>Minimum 115 TB or higher</p>	<p>Technical specification of Exadata X7 - 2 or Higher Quarter Rack for CBS & Eighth Rack for Card Database at DC & HDR</p> <p>DC: 05 (Five) HDR: 04 (Four)</p> <p>DC: 03 (Core Banking) 02 (Card System), HDR: 02 (Core Banking) 02 (Card System)</p> <p>DC: 06 (Core Banking) 02 (Card System), HDR: 04 (Core Banking) 02 (Card System)</p> <p>Minimum 115 TB or higher raw flash capacity Core Banking: 76.8 TB, Card System: 38.4 TB (Both DC & HDR)</p>
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<p>Technical Specification at DRS</p>	<p>Sl. No. 20: External Client Connectivity</p>	<p>10GBase-T, 10 GbE& 25GbE</p>	<p>10GBase-T, 10 GbE& 25GbE with SFP28 modules</p>
<p>Section 2.1.1 (page no. 25)</p> <p style="text-align: center;">24</p>	<p>Sl. No. 16: Database Storage flash capacity</p>	<p>Minimum 51 TB or higher</p>	<p>Minimum 51 TB or higher raw flash capacity</p>
<p>Section 2.2.0 (Page no. 27)</p> <p style="text-align: center;">26</p>	<p>Scope of Work</p>	<p>The successful bidder will have to supply, install, configure, implement, test and commission the products listed in section I & II for the required applications of the bank.</p>	<p>The successful bidder will have to supply, install, configure, implement, test and commission the products listed in Annexure I, II, III & IV for the required applications of the bank. The total implementation (Engineered System along with AVDF) should be done by the Oracle ACS team.</p>
<p>FORM #3 (Page no. 15)</p> <p style="text-align: center;">14</p>	<p>Training</p>	<p>The bidder should arrange knowledge Transfer Training (in home or abroad) governed by Oracle University on Oracle SuperCluster/Exadata System (X7-2)/SPARC T8 Server (which one is applicable) administration, management and user level troubleshooting. The bidder/Oracle shall impart training to the IBBL identified IT personals on the following areas:</p>	<p>All the training organized inshore should be governed and officially recognized by Oracle University (OU) and must be conducted by oracle university approved offshore trainer as per standard. There will be 10 participants for each inshore training who will be enlisted in OU for the course. There will be 4 participants for foreign training which also should be governed and officially recognized by Oracle University. Foreign training location should be out of sub-continent. At least two training each one spanning 5 (Five) days should be in abroad. The bidder/Oracle shall impart training to the IBBL identified IT personals on the following areas:</p>
<p>Sub: Undertaking of Authenticity for Hardware Supply</p>	<p>We <System OEM name> also take full responsibility of both parts and service level agreement (SLA) as per the content even if there is any defect by our authorized Service Center / Reseller / SI / ASP etc.</p>	<p>We <System OEM/Bidder name> also take full responsibility of both parts and service level agreement (SLA) as per the content even if there is any defect by our authorized Service Center / Reseller / SI / ASP etc.</p>	<p>We <System OEM/Bidder name> also take full responsibility of both parts and service level agreement (SLA) as per the content even if there is any defect by our authorized Service Center / Reseller / SI / ASP etc.</p>



Solution No. 3: Total Core Banking System (CBS) and Card Management System (CMS) in SuperCluster as per Annexure-IV (Supply, installation, configuration, integration, testing, commissioning of Oracle SuperCluster and migration of existing Exadata system and Card Database to Oracle SuperCluster)

The intended bidders may participate for-

- i. Solution No.1 (a & b) or Solution No.2 (a & b) or Solution 3
- ii. only for Solution No. 1(a) or 2(a) or 1(b) or 2(b) or 3 separately

Annexure -IV: Solution No. 3

Total Core Banking System (CBS) and Card Management System (CMS) in SuperCluster at DC, HDR and DRS

Supply, installation, configuration, integration, testing, commissioning of Oracle SuperCluster and migration of existing Exadata system to Oracle SuperCluster.

Oracle SuperCluster at DC, HDR & DRS

Sl.	Item Description	Technical Specifications
1	No of Units	3 (Three)
2	Brand	Oracle or Equivalent
3	Model	SPARC Supercluster M8-8 or equivalent
4	Packaging	The solution should be factory integrated and tested and delivered in a Rack
5	Compute Server Chassis	2 (Two)
6	Physical Partitions	2 (Two) per compute server chassis
7	Processor Supported	DC: Minimum 128 RISC based cores with 5.00 GHz or higher in each compute server chassis distributed in 2 physical domains. Total 256 Cores and Upgradable to 512 Cores HDR & DRS: Minimum 64 RISC based cores with 5.00 GHz or higher in each compute server chassis distributed in 2 physical domains. Total 128 Cores and Upgradable to 512 Cores
8	Processor Modules	Oracle SPARC M8 processor
9	Encryption Accelerators	Processor must support encryption instruction accelerators using co-processors within the chip real estate
10	Cryptographic Algorithms	AES, Camellia, CRC32c, DES, 3DES, DH, DSA, ECC, MD5, RSA, SHA-1, SHA-224, SHA-256, SHA-384, SHA-512
11	RAM	DC: Minimum 4 TB per compute server chassis. Total 8 TB and upgradable up to 16 TB HDR & DRS: Minimum 2 TB per compute server chassis. Total 4 TB and upgradable up to 16 TB
12	Integrated Storages	NAS storage and Oracle Exadata Storage cells
13	NAS storage controllers	Clustered Dual active-active controllers
		Each Oracle ZFS Storage ZS5-ES dual controller has : •2 x 18-core 2.3GHz Intel@Xeon@E5-2699 v3 processors •24 x 32 GB of memory •1 x dual-port InfiniBand HCA •2 x 1.2 TB hard disk drives •2x 3.2 TB read-optimized solid-state disks (SSDs)
14	NAS Storage Capacity	Minimum 160 TB RAW (8 TB x 20), 800 GB Write accelerator SSD
15	NAS storage redundancy supported	RAID 0,1,10,5
16	Database Storage Redundancy	ASM high level redundancy
17	Database storage SQL	DC: Minimum 100 Cores for SQL processing & Minimum 600TB raw

	processing capacity & size	DRS: Minimum 80 Cores for SQL processing & Minimum 480TB raw
18	Database Storage flash capacity	DC: Minimum 128 TB or higher DRS: Minimum 102 TB or higher
19	Database Storage Software License	Mention the required license only. Existing license will cover.
20	Integrated Network	All compute and storage components must be connected using InfiniBand Fabric
21	External Client Connectivity	10GBase-T, 10 GbE, 25 GbE
22	External HBA	FC – 4 in DC, 2 in HDR
23	Virtualization	Electrically separated physical domains shall be supported. Furthermore, logical domains shall be supported and within logical domains there should be virtualization technology that can create further virtualized environment within a single instance of the OS. All Virtualization licenses must be included in the solution
24	Remote Management	Single pane of glass management should be provided including all licenses and implementation
25	Operating System	Oracle Solaris latest version
26	PCI DSS Compliance	The system must be fully compliant with PCI DSS standard and provide full control for standard implementation. Bidder shall ensure all necessary services for compliance support
27	Infrastructure Implementation	Bidder shall ensure all the necessary services required for physical installation, commissioning, cabling, re-racking, relocation of existing resources along with new resources
28	Migration	Bidder shall ensure all the necessary services required for database and application migration, upgrade and replication
29	Platinum Services	Bidder shall ensure and co-ordinate integration of Oracle platinum services and maintain
30	Post Migration Support	Bidder shall ensure minimum 3 months post implementation onsite support for application stabilization
31	Benchmarks	All relevant benchmark document, compliance document, design document must be submitted during bidding
32	Training	Bidder shall ensure formal trainings for manpower of relevant products followed by hands on OJT (on the job training) and operational training in home and abroad
33	Manufacturer Support	Bidder shall ensure minimum 1-year OEM support including 24/7 helpdesk, parts and labor