

## Bid Clarification No. 3

This is based on the queries received till July 04, 2018

Sr. No.	Bidding Document		Bidder's Observation	Response
	Chapter	Clause No.		
1			Estimated Size = 12TB. Is this the customer data space or the analytical datasets will be on top?	This storage shall be used for analytical data sets only.
2			The bidder is responsible for Consolidation of multiple BI environments in a single hardware/software home for ease of maintenance and deployment. Is there any existing BI environment if yes, can we have the details. Kindly elaborate/clarify this statement.	Currently no existing BI environment is available. Bidder shall proposed BI tool as part of its solution.
3			Disaster Recovery site is required?	Bidder shall propose Disaster Recovery Site as an optional.
4			Complete solution should have High Availability or not?	Complete solution shall have High Availability.
5			Number of users for ETL?	The number of users details for ETL, BI Tool and analytical tool has been provided in Addendum. Please refer to "Major Solution Component" in Updated Tender document.
6			Number of users for Analytical Tool?	The number of users details for ETL, BI Tool and analytical tool has been provided in Addendum. Please refer to "Major Solution Component" in Updated Tender document.
7			Capacity of Huawei Fusion Insights ?	<p>Cluster has 17 nodes. Fusion insight contains following components</p> <ul style="list-style-type: none"> <li>• Hadoop</li> <li>• Hbase</li> <li>• Hive</li> <li>• Zookeeper</li> <li>• Phoenix</li> <li>• oozie</li> <li>• Hue</li> <li>• Spark</li> <li>• Sqoop</li> <li>• Flume</li> <li>• Kafka</li> <li>• Solr</li> <li>• Kerberos</li> <li>• Streaming</li> <li>• Redis</li> </ul> <p>Solution shall built on top of this cluster, The Bidder shall be responsible to include server in this cluster if required. The Bidder may propose any cost effective solution.</p>

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**Procurement for Data Analytics Services**

**ANNEXURE-I**

Estimated size of 12TB is existing? What is daily growth of data? And the system should be sized on what capacity	The Current data size for available data sources is 30TB and required analytical data size is 12 TB. The system shall be sized on 12TB for analytics. The proposed system shall have expansion capability of analytical data storage size 30 TB to 40 TB approximately for next 05 years.
Approximate quantities/sizes of all source types i. Total already defined (50 Sources, Size is 12 TB) ii. Approximate sizing of the 8 defined data sources on page 31 of tender document	The Current data size for available data sources is 30TB and required analytical data size is 12 TB. The system shall be sized on 12TB for analytics. The proposed system shall have expansion capability of analytical data storage size 30 TB to 40 TB approximately for next 05 years.
Physical Location of all sources	Physical Location of data sources shall be shared with successful Bidders if required
Connectivity between disparate physical locations (if exist)	01Gbps dedicated data connectivity shall be provided by the Employers if the disparate physical locations.
Daily data size of all sources	The Current data size for available data sources is 30TB and required analytical data size is 12 TB
Database Technologies and Versions Used	The proposed solution shall be capable to handle Heterogeneous database sources and technologies.
Database size of source systems	The Current data size for available data sources is 30TB and required analytical data size is 12 TB
Total number of database tables/attributes in respective sources	These details shall be shared with successful Bidder.
Details of any BI/Reporting Systems already deployed	Currently no existing BI environment is available. Bidder shall proposed BI tool as part of its solution.
Current reporting tools being used	Currently no reporting tool is available. Bidder shall proposed as part of its solution.
Defined KPI's for PCSA	These details shall be shared with successful Bidder.
Total number of BI users for this solution	The number of users details for ETL, BI Tool and analytical tool has been provided in Addendum. Please refer to "Major Solution Component" in Updated Tender document.
Total adhoc users for the solution	The number of users details for ETL, BI Tool and analytical tool has been provided in Addendum. Please refer to "Major Solution Component" in Updated Tender document.
Approximate total number of dashboards/reports desired	The number of dashboards shall be on going and Contractor shall develop the Dashboards as and when required by the Employer as part of manage services contract.
Stakeholder locations for requirements gathering	The stackholder shall be available in Lahore
Connectivity requirements between physically distributed users	Employer shall provide connectivity for distributed users.

24			Any specialized backup / archiving requirements	The bidder shall proposed suitable methodology as part of their solution
25			PSCA has already Fusion Insights Hadoop infrastructure available for which the components have already been defined in the clarifications. Does the deployed solution also has Fusion Insight-Universe Analytics Platform available in it ??	NO.
26			Under the heading of LOCATION OF THE PROJECT, the deployed solution will have to be accessible through secure channels to the relevant users of the solution. Please clarify, do we have to propose LAN/WAN solution as well, if so we need to know the	The LAN/WAN solution shall be provided by Employer. However the Bidder shall be responsible for installation of Server and RACK and Employer's data Centre along with all required accessories.
27			The Bidder shall deploy managed services resources on site in above mentioned roles that are full time employees of the principal solution provider.	The resources for on site deployment shall only be from following and full time employee of Principal Bidders/Solution Providers, Authorized Business Partners and/or Authorized solution resellers
28	<b>Advertisement &amp; BIDDING DETAILS &amp; INSTRUCTIONS</b>	<b>Advertisement &amp; Clause # 2</b>	As per bid clarification no. 2 dated June 30, 2018, JV has been allowed for this Project. In this regard, we request you to extend the timeline for Bid Submission by One week atleast as JV has been allowed on last Saturday, June 30, 2018 to ensure that sufficient time is provided for bid preparation for such large size tender. Looking forward for your support in extending the Bid submission timeline by one week.	Compliance to the Tender Document is mandatory.