# Request for Proposal –

# Comprehensive Cloud Based Data Platform for Analytics

RFP goal is to select vendor for cloud based analytical data platform, which will be used for six-month pilot project within SOCAR Georgia Gas.

Bidders are supposed to provide following compliance feedbacks in “Bidder Compliance” field:

1. Fully supported – if provided solution is fully compliant with functional description
2. Partially supported - if provided solution is not fully compliant with functional description, but provide some of the functionalities.
3. Partially supported with customization – bidder can provide described functionality only by customization and it is not the part of product’s core functionalities.
4. Not supported – if bidder could not provide described functionality

For “partially supported” and “partially supported with customization” should provide comments on “bidder comments” field.

| **item #** | **Description** | **Requirement** | **Bidder Compliance** | **Bidder Comments** |
| --- | --- | --- | --- | --- |
| ***1*** | ***Data Warehouse*** | | | |
| 1.1 | Solution should utilize cloud based object store | Mandatory |  |  |
| 1.2 | Solution should support transactional queries | Mandatory |  |  |
| 1.2.1 | * INSERT queries | Mandatory |  |  |
| 1.2.2 | * MERGE queries | Mandatory |  |  |
| 1.2.3 | * UPDATE queries | Mandatory |  |  |
| 1.3 | Solution should support historical flashbacks and should store data change histories | Mandatory |  |  |
| 1.3.1 | * "as of timestamp" data queries | Mandatory |  |  |
| 1.4 | solution should support columnar data storage format | Mandatory |  |  |
| 1.5 | solution should support creation of external tables upon following file formats | Mandatory |  |  |
| 1.5.1 | * JSON format | Mandatory |  |  |
| 1.5.2 | * Delimited text files | Mandatory |  |  |
| 1.5.3 | * XML format | Optional |  |  |
| 1.5.4 | * AVRO data format | Mandatory |  |  |
| 1.6 | Solution should support auto scaling of compute recourses | Mandatory |  |  |
| 1.6.1 | * configurable initial compute resources | Mandatory |  |  |
| 1.6.2 | * automatically scaling up during high loads | Mandatory |  |  |
| 1.6.3 | * automatically scaling down during low or no loads | Mandatory |  |  |
| 1.7 | Bidder should provide appropriate compute and storage resources for the following initial workloads | Mandatory |  |  |
| 1.7.1 | * Store up to 1 TB of data | Mandatory |  |  |
| 1.7.2 | * Handling Up to 500 GB of hot – frequently queried data | Mandatory |  |  |
| 1.7.3 | * At least Up to 8 simultaneous parallel sessions | Mandatory |  |  |
| ***2*** | ***Data integration and ELT*** | | | |
| 2.1 | Solution should support external tables based on JDBC connections to external databases | Mandatory |  |  |
| 2.2 | Solution should provide secure data transfer channel between source systems and itself (it's located cloud) | Mandatory |  |  |
| 2.3 | Solution should prove Job scheduling and orchestration | Mandatory |  |  |
| ***3*** | ***Reporting*** | | | |
| 3.1 | Solution should provide SQL interface for data explorations | Mandatory |  |  |
| 3.2 | Solution should provide UI for dashboard designs | Mandatory |  |  |
| 3.2.1 | * dashboards should support line, pie, bar chards | Mandatory |  |  |
| 3.2.2 | * dashboards should support map based charts | Mandatory |  |  |
| 3.2.3 | * dashboards should support combo charts | Mandatory |  |  |
| 3.3 | solution should support dashboard publishing and sharing | Mandatory |  |  |
| 3.4 | solution should support report scheduling and distribution by mail | Optional |  |  |
| 3.5 | solution should support access control for reports and dashboards | Mandatory |  |  |
| ***4*** | ***Data governance*** | | | |
| 4.1 | Solution should support metadata management | Mandatory |  |  |
| 4.2 | Solution should support field and table descriptions | Mandatory |  |  |
| 4.3 | solution should support table and field tagging | Mandatory |  |  |
| 4.4 | solution should support automatically data type discovery | Optional |  |  |
| 4.4.1 | * automatic personal data discovery | Optional |  |  |
| 4.4.2 | * automatic address and geo information discovery | Optional |  |  |
| 4.4.3 | * automatic date and time information discovery | Optional |  |  |
| 4.5 | Solution should support search on metadata and their descriptions | Mandatory |  |  |
| 4.5.1 | * Solution should support tag based searches | Mandatory |  |  |
| 4.5.2 | * solution should support description based search | Mandatory |  |  |
| 4.5.3 | * solution should support table name and field name based searches | Mandatory |  |  |
| ***5*** | ***Security*** | | | |
| 5.1 | Solution should provide role based access control | Mandatory |  |  |
| 5.2 | Solution should provide row based restriction control | Mandatory |  |  |
| 5.3 | Solution should provide column based restriction control | Mandatory |  |  |
| 5.4 | solution should provide tag based access control | Optional |  |  |
| 5.5 | Solution should provide data masking for sensitive data | Mandatory |  |  |
| ***6*** | ***Billing*** | | | |
| 6.1 | Solution should support usage based charging | Mandatory |  |  |
| 6.1.1 | * based on Compute resource usage | Mandatory |  |  |
| 6.1.2 | * based on storage usage | Mandatory |  |  |
| 6.2 | Solution should provide usage metrics for charging | Mandatory |  |  |
| ***7*** | ***Support*** | | | |
| 7.1 | Bidder should provide at least working hour and work day (8 x 5) support | Mandatory |  |  |