AMENDMENT-1

Dated: 01-July-2022

(Bid Number: GEM/2022/B/2233685 Dated: 07-06-2022)

1. The following clauses were amended as hereunder:

S#	RFP Clause	Existing Clause	Amended Clause
1	Section -VI Clause 6.1 QR for System Integrator G2: Bidder Resource Capacity	Self-declaration signed by the authorized signatory. (as per form 9 of Section XI)	SI to submit self-certified declaration on their letter head duly signed and stamp by authorized signatory who is submitting the bid along with the list of 500 resources and Emp. ID.
2	Section -VI Clause 6.5: QR for Cloud Service Provider T19	Supporting docs: Copy of Work order with Client Certificate. Completion certificate from the client with name, contact number and email with all required information (purchaser may contact the client for verification purpose only). In case of non-availability of Work order/NDA, Self-certificate of completion details as required, duly certified from country head/Company Secretary/Statutory Auditor of the company with contact details of client	Supporting docs: Copy of Work order with Client Certificate. Completion/Go-live certificate from the client with name, contact number and email with all required information (purchaser may contact the client for verification purpose only). In case of Go-live, the certificate to mention the cloud consumption bill as per the requirement. In case of non-availability of Work order/NDA, Self-certificate of completion details as required, duly certified from country head/Company Secretary/Statutory Auditor of the company with contact details of client
3	Section VI Clause 6.2 - QR for MDM Solution (OEM)	signatory. (Client may be contacted for verification purpose only).	_
4	Section -VI Clause 6.5 - QR for Cloud Service Provider T17	At least 50 full time cloud professionals on the rolls of the company. Relevant summary along with CV with qualification, work experience signed by the authorized signatory.	Deleted

S#	RFP Clause	Existing Clause	Amended Clause
5	Section VI and VII Clause 6.1 to 6.6 & 7.6	Supporting documents As mentioned in the RfP	Supporting documents As mentioned against respective Eligibility criteria mentioned in the RfP. However, in case of NDA, the bidder shall provide CA Certificate/Statutory Auditor certificate detailing the requirement mentioned for qualification and its compliance along with client details(RECPDCL may contact the client on the details for verification).
6	Section VII- Clause 7.6 S.No. TS7-Capabilities of MDM OEM (Total Marks -10) page no. 91	S. No. TS 7 Proposed MDMS Application position in Gartner Magic Quadrant in latest Published Report. • Niche: 0.5 Mark • Challengers or Visionaries: 01 Mark • Leader: 02 Mark Required documentary evidence Recent Gartner Report of Meter Data Management Systems	The OEM shall have authorized service / channel/implementation partner of the proposed MDM in India/Global: • At-least 1 nos.: 0.5 Marks • 2 nos.: 01 Mark • >2 nos.: 02 Mark Required documentary evidence OEM shall provide the relevant supporting document mentioning details of authorized service and implementation partner, as applicable, on its letter head duly signed and stamp by authorized signatory of OEM.
7	9. Presentation, Approach Methodology (Total Marks -10) Page no. 92	8. Proposed resources (Total Marks -20) 9. Presentation, Approach Methodology (Total Marks -10)	8. Proposed resources (Total Marks -10) 9. Presentation, Approach Methodology (Total Marks - 20) Break up for allocation of marks shall remain same as mentioned in the RfP.
8	"Section-II 2. Eligibility Criteria Documents/ Technical Bid (Pg. 10)"	c. Offer from following types of bidder will not be accepted: i. Who are under liquidation, court receivership and /or similar proceedings ii. Offer from joint bidders/consortium will not be accepted	c. Offer from following types of bidder will not be accepted: i. Who are under liquidation, court receivership and /or similar proceedings.

S#	RFP Clause	Existing Clause	Amended Clause
9	Section VII: Clause 7.6 Technical Bid Evaluation TS6A	The bidder (SI) should have experience of implementation of Data Analytics projects – including Data Integration, Data Visualization, Data Quality, Analytics for an Indian Public Sector/Government entity, in the in last 10 FYs including Current FY period till bid submission date with marking as follows: Each such project with projects with value >= 2 crore – 01 marks	The bidder (SI) should have experience of implementation of Data Analytics projects – including Data Integration, Data Visualization, Data Quality, Analytics for an Indian Public Sector/Government entity/Government SPV, in the in last 10 FYs including Current FY period till bid submission date with marking as follows: Each such project with projects with value >= 2 crore – 01 marks
10	Section VII: Clause 7.6 Technical Bid Evaluation TS1, TS2, TS6A	The bidder should	The Sole Bidder/Lead bidder should
11	Section VII: Clause 7.6 Technical Bid Evaluation	Documentary Evidence: CA certificate along with Annual Financial Statement	Documentary Evidence: CA certificate along or Annual Financial Statement
12	Section IV Clause 4.2.1 Use Case Activity, Table Sr. no. 4 at page no.34	As mentioned in Clause 1.2 (g) of this Schedule, MDM should support the future requirement of utility by way integration with other smart grid functionalities as listed in Clause 1.2 (g) as and when implemented by Utility. In this effort, the methodology as outlined in the approach paper shall be followed.	Deleted
13	Section IV Clause 4.2.1 Use Case Activity, Table Sr. no. 4 at page no.34 Section IV	Remote firmware upgrades / meter configuration changes for meters connected with HES deployed by RECPDCL 6. Time synchronization for meters connected with HES deployed by RECPDCL The MDM shall provide storage and retrieval of	Deleted. The MDM shall provide storage and retrieval of all

S#	RFP Clause	Existing Clause	Amended Clause
	Clause 4.2.1 Point no. 2. Meter Data Management system (MDM) [4.Meter Data] Under section 4.3.2. at page no. 35	all collected Meter Data, events and alarm. It shall have capacity of storing 10 years data or more on daily basis (as required by the utility based on regulatory provisions) via archiving.	collected Meter Data, events and alarm. It shall have capacity of storing two (2) years active data [this includes current and last financial year] and archived storage beyond two (2) years and of storing 10 years data or more on daily basis via archiving.
15	Section – IV Clause 4.3.2 6. Mobile and Web App Functionalities	Proposed Dashboard should support each of the following browsers i.e. Internet explorer, Chrome, Firefox & Safari and mobile devices.	Proposed Dashboard should support each of the following browsers i.e. Chrome, Firefox & Safari, latest browser of Microsoft (if any) and mobile devices.
16	Pg.104 Force Majeure	Natural Force Majeure Events: i. Act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the site), earthquake, epidemic, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions	Natural Force Majeure Events: i. Act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the site), earthquake, epidemic, Pandemic , volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions
17	Section-VII – Bid Evaluation methodology 7.3 Bid Prices (pg. 89)	4. Successful Bidder shall submit the breakup of taxes, duties, and other levies after end of e-RA process	Clause deleted
18	Section-IV Clause No. 4.3.2 Functional Requirement" Sub-clause 6	Factory acceptance testing	Clause deleted.
19	Section-IV Form-7 at page no. 155	Form-7- Format for Manufacturer's Authorization Form	Please refer revised MAF form attached with the pre- bid clarifications as Annexure-2. The MAFs shall be submitted by respective OEMs as per their respective formats.
20	Section-IV	2. Asset Management for meters connected	2. Asset Management for meters connected with HES

S#	RFP Clause	Existing Clause	Amended Clause
	Pg. 36 Clause No. 4.3.2.2"	with HES deployed by RECPDCL The MDM shall maintain information and relationships between the current installed meter location (utility/ SStn/Feeder etc.), Meter ID, Type of Meter, Meter configuration (Demand integration period, Load profile capture period etc.) GIS supplied information (longitude, latitude, connection with feeder/transformer/ pole etc.) etc.	deployed by RECPDCL The MDM shall maintain information and relationships between the current installed meter location (utility/ SStn/Feeder etc.), Meter ID, Type of Meter, Meter configuration (Demand integration period, Load profile capture period etc.) GIS supplied information (longitude, latitude, connection with feeder) etc.
21	Section IV Clause no. 4.3.2 (5.Cloud Service Providers) at page no. 49	j. The SI shall engaged a Managed Service Provider (MSP) to manage cloud services for following activities but not limited to: a) Migration of Existing Applications to Cloud / Deploying of new applications; b) Operations & Maintenance Services on Cloud (e.g., Resource Management, User Administration, Security Administration & Monitoring of Security Incidents, Monitoring Performance & Service Levels, Backup, Usage Reporting and Billing Management) c) Exit Management & Transition-out Services, etc.	j. The SI shall engaged a Managed Service Provider (MSP) to manage cloud services for following activities but not limited to: a) Deploying of new applications; b) Operations & Maintenance Services on Cloud (e.g., Resource Management, User Administration, Security Administration & Monitoring of Security Incidents, Monitoring Performance & Service Levels, Backup, Usage Reporting and Billing Management) c) Exit Management & Transition-out Services, etc.
22	Section IV Clause 4.2.1 Additional work of SI	The SI shall provide support to the field solution providers working with the various DISCOM's, for migration of the data/applications from the existing infrastructure to the cloud infrastructure as per the design/requirement	Clause deleted
23	Section IV 4.3.2 4. Business Analytics and Reporting Solution Pt 2 Functional Features	Sentiment Analysis	Deleted

S#	RFP Clause	Existing Clause	Amended Clause
24	5.Data Validation, Estimation, and Editing (VEE) Meter Data Management system (MDM)	8.Notwithstanding the latency of data collection via the AMI system, once the MDM receives meter read data, the VEE process occurs in real-time and the post-VEE data is then immediately available to user or external systems.	8.Notwithstanding the latency of data collection via the AMI system, once the MDM receives meter read data, the VEE process occurs in batch basis and the post-VEE, data is then immediately available to user or external systems for analytics, without affecting the quality and frequency of analytic reports.
25	Pg.65 Clause no.4.4, NFMS Control Centre	 1.10 Nos. of Workstation for the continuous monitoring of the system for any occurrence of abnormality/events triggered from the field in the metering system. 6.Firewall and intrusion protection system 7.One video display system of at least 70-inch diagonal with laser light source HD cube (DLP technology) supported by, 	1.10 Nos. of Workstation for the continuous monitoring of the system for any occurrence of abnormality/events triggered from the field in the metering system. The hardware shall be subjected to hardware refresh after period of 5 years. 6. Firewall and intrusion protection system – Deleted. SI to ensure security at Workstations for external threat/Intrusions 7. One video display system of at least 70-inch diagonal with laser light source HD cube (DLP technology) - O&M with warranty/support for 10 years
26	Pg. 160 Form 12 - Format of Consortium Agreement to be entered amongst all Members of a Bidding Consortium	Form 12 - Format of Consortium Agreement to be entered amongst all Members of a Bidding Consortium	Form 12 - Format of Consortium Agreement to be entered amongst all Members of a Bidding Consortium (No. of Consortium members shall consist of 1 Lead bidder and 1 consortium member)
27	Pg. 22, 3.4 Cloud based NFMS Central IT System	Advance analytics including but not limited to network/graph analysis, contemporary analytical models' neural networks for purpose of generating alerts, detection, prevention, and other investigations framework using AI/ML techniques.	AI/ML based analytics is not in the scope of present RFP.
28	Section IV Clause 4.3.2 Sub-Clause 5	The System Integrator (SI) would have to provision cloud hosted managed hardware security module (HSM) to generate and manage	HSM is not required, however Data Encryption technique to be used for ensuring data in encrypted form during in transit and at rest.

S#	RFP Clause	Existing Clause	Amended Clause
	6.Security	encryption keys	
29.	Requirements Section VII – GCC & 3.5 Service Provider's Actions Requiring Employer's Prior Approval	(b) Appointing such Personnel for delivery/ supply of the Services under the Contract, other than those not listed by name in Form-9 ("Key Personnel and Subcontractors"),	(b) Appointing such Personnel for delivery/ supply of the Services under the Contract, other than those listed by name in Form-9 ("Key Personnel and Subcontractors"),
30	Pg. 24 Clause 4.2.1	Responsibilities of System Integrator (SI) Secure VPN setup between DISCOM to Cloud (NFMS)	Scope of VPN connectivity between NFMS cloud and Discom system deleted. The integration between Discoms and NFMS Cloud shall be through API based with User Authentication. The API should have SSL certificates for encryption and also should be accessible through specific IP addresses only i.e. whitelisting should be carried out for each connection. In case of VPN based access at Discom end, relevant authorizations shall be shared with the SI for connectivity. Further, SI shall provide 15 VPN accounts for RECPDCL officials.
33	GCC Clause 3.7 a)	All Intellectual Property Rights in all material (including but not limited to all Source code, Object code, records, reports, designs, application configurations, data and written material, products, specifications, reports, drawings and other documents), which have been newly created and developed by the SI solely during the performance of Related Services and for the purposes of inter-alia use or sub-license of such services under this Contract, shall be the property of the REC PDCL. The SI undertakes to disclose all such material, which have been newly created and developed by the	All Intellectual Property Rights in all material (including but not limited to all Source code, Object code, records, reports, designs, application configurations, data and written material, products, specifications, reports, drawings and other documents), which have been newly created and developed by the SI solely during the performance of Related Services excluding the SI Material and for the purposes of interalia use or sub-license of such services under this Contract, shall be the property of the REC PDCL upon receipt of full payment by SI for the same. The SI undertakes to disclose all such material, which have been newly created and developed by the SI solely

S#	RFP Clause	Existing Clause	Amended Clause
		SI solely during the performance of Related Services and for the purposes of inter-alia use or sub-license of such services under this Contract, to REC PDCL. The SI hereby grants to RECPDCL a perpetual, exclusive, transferable, irrevocable, royalty-free license to use all material disclosed to the RECPDCL under the Contract. Nothing contained herein shall be construed as transferring ownership of any Intellectual Property Right from the SI to the REC PDCL	during the performance of Related Services and for the purposes of inter-alia use or sub-license of such services under this Contract, to REC PDCL. The SI hereby grants to RECPDCL a perpetual, exclusive, transferable, irrevocable, royalty-free license to use all material disclosed to the RECPDCL under the Contract. Nothing contained herein shall be construed as transferring ownership of any Intellectual Property Right from the SI to the REC PDCL. In the event SI Material are embedded or used in the Services, SI grants to RECPDCL a non-exclusive, non-transferable, irrevocable, royalty free license for the RECPDCL's internal use of the same as part of the Services in which they are embedded. Nothing contained in this Agreement shall be construed to grant RECPDCL any right to use or exploit such SI Material in its standalone form separate and apart from the Services. SI Material includes mean all tools, software, methodologies, processes, know-how and other information or material created or licensed by SI prior to the commencement of the Contract or outside the scope of Contract, and any modifications or enhancements made to any of the foregoing or created by SI in the course of providing Services under an applicable Contract without using customer Materials or customer's Confidential and Information.
34	1.1(u) of GCC	Sub-contractor is not allowed	SI shall be permitted to appoint subcontractor(s) so as to meet its obligations under the Contract with RECPDCL, with approval of RECPDCL. The SI shall ensure that any person/agency engaged by SI are not blacklisted by any Government organization or regulatory agencies or Government Undertaking and satisfy the eligibility requirement in terms of applicable laws including the guidelines issued vide Order No. F/No.6/18/2019-PPD by Ministry of Finance, Department of Expenditure, Public Procurement

S#	RFP Clause	Existing Clause	Amended Clause
			Division dated 23 July 2020 and as amended from time
			to time
			Scope of VPN connectivity between NFMS cloud and
			Discom system deleted.
			The integration between Discoms and NFMS Cloud
			shall be through API based with User Authentication.
	Section III 4.2.1 Pt	Secure VPN setup between DISCOM to Cloud	The API should have SSL certificates for encryption
35	1	(NFMS).	and also should be accessible through specific IP
			addresses only i.e. whitelisting should be carried out for each connection. In case of VPN based access at
			Discom end, relevant authorizations shall be shared
			with the SI for connectivity.
			Further, SI shall provide 15 VPN accounts for
			RECPDCL officials.
	APIs on cloud		
36	should be accessible to		Deleted
	DISCOMs through		Deleteu
	VPN on internet		
			No. of estimated Interactive Users for Web-portal shall
			be as follows:
			1. Ministry of Power - 50 users
	NEMS Scalability		2. RECPDCL - 150 users 3. Discoms - 4500 users
37	NFMS Scalability and Performance		The estimated concurrency for above interactive users
			may be considered as 20% of total no. of users.
			For MDM the estimated no. of users - 50
			The estimated concurrency for viewing on web-portal is
			10,000.

2. The corresponding Addendum to be issued is as follows:

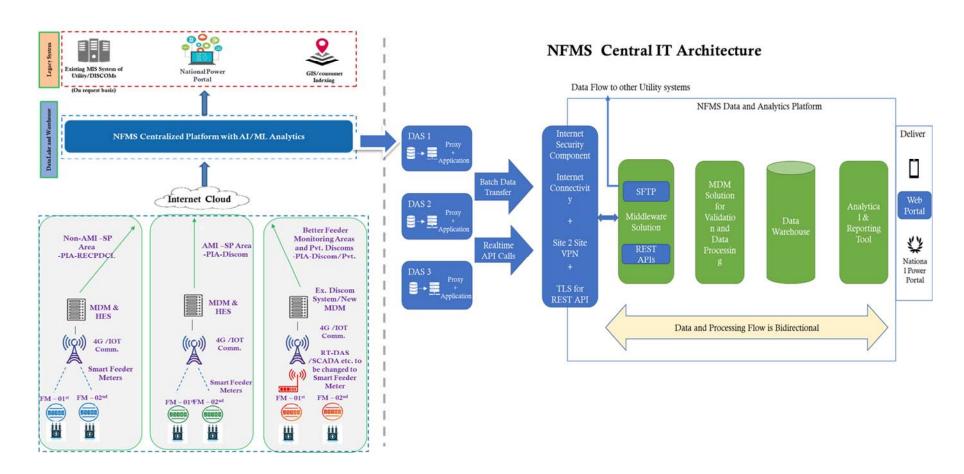
Sr. No	RFP Clause	Addended Clause
1	Section V 5.4 - Training	Training to be provide on Train-The -Trainer concept at centralized level for 5 officials from MoP,

Sr. No	RFP Clause	Addended Clause
		5 officials from CEA, 10 officials from RECPDCL and 20 officials as designated by RECPDCL in atleast 01 session annually after Go-Live.
2	Section V 5.5 - Phase 5, Post implementation phase - AMC pt (ii)	The CAGR for no. of feeders to be considered as 7%.
3	T4A: QR for System Integrator Bidder Resource Capacity	At least 50 full time certified cloud professionals of proposed cloud on the rolls of the company. Documentary evidence Self-Certification by SI mentioning the details of employees (Name, Employee ID) duly certified by Head of HR Department / Bid Signing Authority.
4	T9A: QR for MDM Solution OEM Product Acceptability	The MDM OEM shall have atleast 2 nos. of agencies/partners comprising of at least 1 No. of authorized partner and 1 No. of authorized/implementation partner, excluding the OEM, as on date of bid submission. Documentary evidence OEM shall provide the relevant supporting document mentioning details of authorized service and implementation partner, as applicable, on its letter head duly signed and stamped by authorized signatory of OEM.
5	Section VI- Qualification Criteria Clause 4.1	Maximum of 1 nos. of Agency can participate as a consortium. i.e. 1 No. of Lead bidder and 1No. of Consortium partner.
6	Section VII Clause 7.9 Annexure A- Purchase Preference to Make in India	SI shall provide a certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of Local Content to be eligible as Class-I or Class-II in line with the Public Procurement (Preference to Make in India) to provide for Purchase Preference (linked with local content) in respect of Power Sector' order dated 28.07.2020, 16.09.2020 and subsequent amendments issued by Ministry of Power and MeitY notification (F. No. W-43/4/2019-IPHW-MeitY) dated 07.09.2020. Cloud services being provided from Data Centers located in India will be treated as local services for purpose of Minimum Local Content.

Sr. No	RFP Clause	Addended Clause	
7	SCC Clause 2.4.1 Point 5	The above requirements for PPP-MII compliance to be ensured by the SI while submitting the certificate to be eligible as Class-I /Class-II supplier as per PPP-MII guidelines. The following categories of Change Requests shall not be treated as "New Requirements"in this contract • The Agency agrees that the requirements/ quantities/ licenses/ specifications and Service requirements given in the RFP documents are minimum requirements and are in no way exhaustive and guaranteed by RECPDCL. • Any upward revision and/or additions consequent to errors, omissions, ambiguities, discrepancies in the quantities, specifications, etc. of the RFP documents which the Agency had not brought out to the RECPDCL's notice till the time of award of work and not accounted for in his Bid shall not constitute a change order and such upward revisions and/or addition shall be carried out by Agency without any time and cost effect to RECPDCL. • It shall be the responsibility of the Agency to meet all performance and other requirements of RECPDCL as stipulated in the RFP document / Contract. Any upward revisions / additions of quantities, specifications, technical manpower, service requirements to those specified by the Agency in his Bid documents, that may be required to be made during development / implementation /acceptance of the System or at any time during the contract in order to meet the conceptual design, objective and performance levels or other requirements as defined in the RFP documents shall not constitute a change order and shall be carried out by the Agency without any change order and without any time and cost effect	
8	SCC Clause 2.4.1 Point 6.1	In case of development of additional Modules/ Software/Services/requirement outside the signed off SRS, the Agency agrees to carry out / provision for such additional requirement on lump-sum basis, however the lump-sum rate shall be arrived on the basis of the man-month cost quoted by the bidder at the time of the bid submission with mutually agreed effort(Man-months) required for the	
9	SCC Clause 2.4.1 Point 8	necessary change. It is hereby also clarified here that any change of control suggested beyond 100 % of the value of this Project will be beyond the scope of the change control process and will be considered as the subject matter for a separate bid process and a separate contract or as deemed fit by RECPDCL. It is hereby clarified that the 100% of the value of the Project as stated herein above is calculated on the basis of bid value submitted by the Agency for Schedule 1 and Schedule 2 of the Price Schedule	

Sr. No	RFP Clause	Addended Clause	
		at the time of bidding.	

NFMS -Features of NFMS Field & IT Solution



Form-7- Format for Manufacturer's Authorization Form

<To be filled in by proposed OEMs Softwares i.e. Middleware, MDM, Data Warehouse, Data Analytics >

Note: This authorization should be written on the letterhead of the Manufacturer and be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.

Invitation for Bids Title and No.: [Purchaser insert: RFB Title and Number]

To: [Purchaser insert: Purchaser's Officer to receive the Manufacture's Authorization]

WHEREAS [insert: Name of Manufacturer] who are official producers of [insert: items of supply by Manufacturer] and having production facilities at [insert: address of Manufacturer] do hereby authorize [insert: name of Bidder] located at [insert: address of Bidder] (hereinafter, the "Bidder") to submit a bid and subsequently negotiate and sign a Contract with you for resale of the following Products produced by us:

We *[insert: Name of Manufacturer]* shall ensure that IT infrastructure (Server hardware / software etc.) sizing & specifications provided to the bidder/SI (if multiple bidders proposing same product / service) for the similar product or services shall be same to maintain uniformity across all bids and avoid any undue advantage to bidder/SI.

We confirm that Bidder is our authorized service / channel/ implementation partner for implementation of our ______ software. We hereby authorize Bidder to quote and execute the order for the subject tender on behalf of / insert: Name of Manufacturer |

We shall extend our full support in all respects for supply, warranty, and maintenance of our products during the project tenure in interest of the project.

We [insert: Name of Manufacturer.] also agree to sign End User License Agreement directly with RECPDCL for the supplied software < i.e. Middleware, MDM, Data-warehouse, Analytics etc. as the case may be> with one time assignment right to any designated central authority under MoP. The software licenses shall be perpetual in nature and should come without any restriction or limitation of usage as per the scope of RFP.

We shall ensured that the system sizing done by the bidder for the above software has been done considering the software requirements & its functionalities for desired performance as per RFP.

We hereby confirm that in case the bidding results in a Contract between you and the Bidder, the above-listed products will come with our full standard warranty.

Name [insert: Name of Officer]	in the capacity of [insert: Title of Officer]			
Signed				
Duly authorized to sign the authorization for and on behalf of: [insert: Name of Manufacturer]				
Dated this [insert: ordinal] day of [insert: month], [insert: year]. [add Corporate Seal (where appropriate)]				

<To be filled in by proposed Cloud Service Provider(CSP)>

Note: This authorization should be written on the letterhead of the CSP and be signed by a person with the proper authority to sign documents that are binding on the CSP.

Invitation for Bids Title and No.: [Purchaser insert: RFB Title and Number]

To: [Purchaser insert: Purchaser's Officer to receive the Manufacture's Authorization]

WHEREAS [insert: Name of CSP] who are Cloud service providers do hereby authorize [insert: name of Bidder] located at [insert: address of Bidder] (hereinafter, the "Bidder") to submit a bid and subsequently negotiate and sign a Contract with you for providing our Cloud Services.

We *[insert: Name of CSP]* shall ensure that IT infrastructure (Server hardware / software etc.) sizing & specifications provided to the bidder/SI (if multiple bidders proposing same product / service) for the similar product or services shall be same to maintain uniformity across all bids and avoid any undue advantage to bidder/SI.

We hereby confirm that, in case the bidding results in a Contract between you and the Bidder, we will provide to the *[insert: Name of bidder]* our commercially available cloud services in accordance with the terms and conditions of RfP.

Name [insert: Name of Officer]	in the capacity of [insert: Title of Officer]
Signed	_
Duly authorized to sign the authorization	for and on behalf of: [insert: Name of CSP]
Dated this [insert: ordinal] day of [insert: naid Corporate Seal (where appropriate)]	nonth],[insert: year].