Date: 25.1.2021

Amendment No. 5

to

Request for Proposal (RfP)

for

Selection of Smart Grid Implementation Agency (SGIA)

for

Implementation of Smart Grid

in

Rourkela Smart City, Odisha

<u>Volume – I</u>

Reference Clause	Existing Provision after Issuance of	Amended Provision		
	Clarification dated 4.12.2020 and Amendment			
Document Checklist	No.4 to RfP dated 11.1.2021	nexure-1 of this Document		
Volume-I	Last Date of downloading of RFP – 29.1.2021	Last Date of downloading of RFP – 5.2.2021 29.1.2021 upto		
Important Dates and		12:00 hrs		
Amounts	Last date and time for online bidding & receipt of	Last date and time for online bidding & receipt of RFP – 5.2.2021		
Amounts	RFP – 29.1.2021 upto 15:00 hrs	29.1.2021 upto 15:00 hrs		
	Technical Bid Opening – 29.1.2021 at 16:00 hrs	Technical Bid Opening – 5.2.2021 29.1.2021 at 16:00 hrs		
		Interested Bidders are requested to		
		prepare their bids well in advance as no		
		further extension would be given after		
		the above date		
	Bid Security as Demand Draft or Bank	Bid Security as Demand Draft or Bank Guarantee, valid for a		
	Guarantee, valid for a period of 120 days beyond	period of 120 days beyond the end of validity period of the		
	the end of validity period of the bid (Refundable)	bid (Refundable)		
		The Bidder shall submit the Declaration of Bid Security as per Annexure-1 of the RfP.		
Volume-I	Refer Annexure-2 of this Do	ocument for Revised Qualifying Requirement		
Clause 4.3.1		January ng nagananan		
(Qualifying				
Requirement)				
Volume-I	In case Bidder does not manufacture or	In case Bidder does not manufacture or produce any major		
Clause 4.3.1	produce any major equipment or component of	equipment or component of the overall Solution to be provided as		
(Qualifying	the overall Solution to be provided as the Scope	the Scope of Work, then the Bidder is required to submit the		
Requirement)	of Work, then the Bidder is required to submit	Manufacturer's /OEM's Authorization stating the required support		
	the Manufacturer's /OEM's Authorization stating	from the Manufacturer/OEM with respect to supply, support, etc.		
	the required support from the Manufacturer/OEM	from the date of award of contract to SGIA till 96 months for a		
	with respect to supply, support, etc for a period of eight (8) years from the date of Operational	period of eight (8) years from the date of Operational Acceptance of the entire project by WESCO TPWODL		
	Acceptance of the entire project by WESCO	Acceptance of the entire project by WESCS TPWODE		
Volume-I	The Lead Consortium Member shall submit the	The Lead Consortium Member shall submit the Bid after		
	Bid after legitimately paying the purchase fees	legitimately paying the purchase fees for the RFP, and		
Clause 4.3.2.10		submission of the Tender Fees and Declaration of Bid Security		
(Consortium Bids)	and Bid Security as per the various terms,	as per the various terms, schedules and formats prescribed in this		
	schedules and formats prescribed in this RFP	RFP		
Volume-I	Any Bid not accompanied by a substantially	Any Bid not accompanied by a substantially responsive		
	responsive Bid Security in accordance with	Declaration of Bid Security in accordance with Annexure 1 shall		
Clause 4.5.3 (Payment		be rejected by PFCCL as non-responsive		
of Fees by Bidders)	responsive			

Volume-I	Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon signing of	Deleted
Clause 4.5.4 (Payment	the contract by WESCO with the Project	
of Fees by Bidders)	Implementing Consortium	
Volume-I	The Bid Security of the Project Implementing	Deleted
	Consortium shall be returned as promptly as	
Clause 4.5.5 (Payment	possible once the Project Implementing	
of Fees by Bidders)	Consortium has furnished the required	
	Performance Security for Project Implementation	
	in the name of WESCO as per clause 6.21.1.1	
Malamaa	and signed the contract with WESCO	The scaled annulars about contain bond conics of all civital and/
Volume-I	The sealed envelope shall contain hard copies of all original and/ or attested documents	The sealed envelope shall contain hard copies of all original and/ or attested documents submitted in physical submission of
Clause 4.12.5 (Method	submitted in physical submission of Technical	Technical Bid. The separate sealed envelope shall also contain
of Submission of Bid)	Bid. The separate sealed envelope shall also	requisite hard copies of the Tender Fee and Declaration of Bid
or easimission or bid)	contain requisite hard copies of the Tender Fee	Security
	and Bid Security	Coounty
Volume-I	Tender Fees & Bid Security as prescribed in	Tender Fees & Declaration of Bid Security as prescribed in
Clause 4.14.9		Section 2 as per format prescribed in Annexure 1
(Technical Bid)	1	
Volume-I	The offer submitted in the Bid by the Bidding	The offer submitted in the Bid by the Bidding Consortium shall be
	Consortium shall be valid for a period of 6	valid for a period of 6 Months from the submission of the Bid. The
Clause 4.17.1 (Bid	Months from the submission of the Bid. The bid	bid security shall be valid for 120 days beyond the end of
Validity)	security shall be valid for 120 days beyond the	validity period of the bid. This shall also apply if the period of
	end of validity period of the bid. This shall also	the bid validity is extended
Volume-I	apply if the period of the bid validity is extended In exceptional circumstance, PFCCL may solicit	In exceptional circumstance, PFCCL may solicit Bidder's consent
voidine-i	Bidder's consent to an extension of bid validity	to an extension of bid validity period. The request and responses
Clause 4.17.3 (Bid	period. The request and responses thereto shall	thereto shall be made in writing or by email. If a Bidder accepts
Validity)	be made in writing or by email. If a Bidder	to prolong the period of validity, Bid Security shall also be
,	accepts to prolong the period of validity, Bid	suitably extended. A Bidder may refuse the request without
	Security shall also be suitably extended. A Bidder	forfeiting its Bid Security. A Bidder granting the request will not
	may refuse the request without forfeiting its Bid	be required or permitted to modify its Bid.
	Security. A Bidder granting the request will not be	
	required or permitted to modify its Bid.	
Volume-I	The physical submission of the Technical Bids in	
Clause F.2.2 (Onering	the sealed envelope shall be opened	
Clause 5.2.2 (Opening of Technical Bids)	simultaneously to check for the tender fees and the Bid Security	fees and the Declaration of Bid Security
Volume-I	The Bids shall be deemed to be under	The Bids shall be deemed to be under consideration immediately
v olulli6-i	consideration immediately after they are opened	after they are opened and confirmation or receipt of the Tender
Clause 5.2.3 (Opening	and confirmation or receipt of the Tender Fee	Fee and Declaration of Bid Security, and until an official
of Technical Bids)	and Bid Security, and until an official intimation	intimation of award or rejection is made to the Bidders.
	of award or rejection is made to the Bidders.	,
Volume-I	If the Bidder that submitted the Lowest	If the Bidder that submitted the Lowest Evaluated Bid does not

Clause 5.6.4 (Non-Conformities, Errors and Omissions)	Evaluated Bid does not accept the correct errors, its Bid shall be disqualified and Security shall be forfeited	· · · · · · · · · · · · · · · · · · ·
Volume-I Clause 5.9.9 (Award of Contract)	Failure of the successful Bidder to subrabove-mentioned Performance Security of the Contract shall constitute sufficient g for the annulment of the award and forfeithe Bid Security. In that event WESCO award the Contract to the next successful whose offer is responsive	Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security suspension from participation in the bidding process for future tenders of PFCCL for a period of
Volume-I Clause 6.21.1 (Performance Security)	Within fourteen (14) days of the notifical Contract award, provide a Performance Sto WESCO in the form of an irrevocable Guarantee valid up to a period of 6 month date of completion of eight (8) year FMS from the date of operational acceptance project or extended thereafter to the tune of x Total Meter Rent Per Consumer Per M Total number of consumers for which the has quoted Meter Rent x 96 months for the performance of the Contract in the amount currencies specified in the RFP based format prescribed in Annexure 14. If C Performance Security has not been subwithin 15 days from receipt of Letter of Award the Contractor, then penalty @0.35% per or part thereof of the value of Performance Security amount will be recovered from which will be calculated from due dissubmission of Performance Security in actual date of submission of Performance Security	well in advance before expiry (Discom may invoke the Performance Security expires) valid up to a period of the Performance Security expires) valid up to a period of the Performance Security expires) valid up to a period of the Performance Bank Guarantee without giving any information if validity of such Performance Security expires) valid up to a period of to such Performance Security expires) valid up to a period of to such Performance Security expires) valid up to a period of to twelve (12) months at a time till 6 months from date of completion of eight (8) year FMS period from the date of operational acceptance of the project or extended thereafter to the tune of 10% x Total Meter Rent Per Consumer Per Month x Total number of consumers for which the Bidder has quoted Meter Rent x 96 months for the due performance of the Contract in the amounts and currencies specified in the RFP based on the format prescribed in Annexure 14. If Contract Performance Security has not been submitted within 15 days from receipt of Letter of Award by the Contractor, then penalty @0.35% per week or part thereof of the value of Performance Security amount will be recovered from firm which will be calculated from due date of submission of ill the
Volume-I	•	Document for Revised Tender Evaluation Methodology
Annexure A (Tender Evaluation		
Methodology)		
Volume-I	Refer Annexure-4	of this Document for Revised Annexure-1 of RfP
Annexure 1 Volume-I	Bid Security Decla	ration of Bid Security
v Olulli6-i	Did Occurry Decid	ation of bid occurry
Annexure 3 (S.No. 3) (Format Bill of Covering		ve enclosed a Declaration of Bid Security of [Amount] in the form of a Guarantee No

Letter by Lead Consortium Member for Submission of Bid)	Guarantee No. [Insert Bank Guarantee Number] (OR Demand Draft) dated[Insert date of the Bank Guarantee] as per Annexure 1 of the RFP from[Insert name of Bank providing Bid Bond] and valid up to [Date].	Demand Draft) dated
Volume-I Annexure 4 (S.No. 7) (Format of Consortium Agreement to be entered amongst all Members of a bidding Consortium)	It is hereby agreed that the Lead Consortium Member shall furnish the Bid Security, as stipulated in the RFP, on behalf of the Bidding Consortium	It is hereby agreed that the Lead Consortium Member shall furnish the Declaration of Bid Security, as stipulated in the RFP, on behalf of the Bidding Consortium
Volume-I Annexure 10 (Format Bill of Quantities) Volume-I Annexure 17 (Price Bid Schedule)		re-5 of this Document for Revised Format Bill of Quantities d Price Bid Schedule which has been uploaded separately

<u>Volume – II</u>

Reference Clause	Existing Provision after Issuance of Clarification and Amendment No.2 to RfP dated 4.12.2020	Amended Provision
Volume-II	Further, the report function shall generate	Further, the report function shall generate reports on the following project
Clause 3.6.11.3 (Meter Data Management System (MDMS) Reporting)	user configurable time period. This will	KPIs for a user configurable time period. This will enable tracking the progress of project benefit parameters. Below is a list of suggestive KPIs to be monitored. These KPIs need to be defined and agreed between employer SGIA and utility

Volume-I, Document Checklist

S. No	Document	Attached? (Yes/ No)	For Official Use
1.	Tender Fee in the form of Demand Draft.		
2.	Bid Security in the form of Demand Draft or Bank Guarantee as per format prescribed in Annexure 1.		
3.	Covering Letter for Submission of Bid by Lead Consortium Member as per format prescribed in Annexure 3.		
4.	Attested copy of Certificate of Registration/ Incorporation issued by the Registrar of Companies for each Consortium Member		
5.	Attested Copy of the Goods and Services Tax (GST) Registration Certificate of the Lead Consortium Member.		
6.	Attested copy of Provident Fund Code of Lead Consortium Member.		
7.	Attested copy of PAN Card for Lead Consortium Member.		
8.	Certificate of Commencement of Business issued by the Registrar of Companies for Lead Consortium Member.		
9.	In case the Bidder being Indian Company is having collaboration with the Company incorporated outside India (Foreign Company), the Bidder shall in respect of such collaboration submit duly certified/ authenticated copies of the following documents: • Certificate of Incorporation / Registration Certificate issued by the competent authority under the law in force in the country of its incorporation; • Memorandum and Articles of Association or document constituting the company and regulating its affairs; • List of board of directors or regulating/controlling body; • Address of its place of business in India, if any; • Audited annual financial statements and financial Net-worth for the last five years only of foreign entity; • Complete copy of agreement entered into by Indian company with foreign company together with gist of major terms, validity period, demarcation of scope of work, role and responsibilities of each party to the agreement, technical, financial & management aspects of agreement; • Commitment of the foreign company to continue partnering with agreement and to discharge its role / functions under the agreement till the completion of the Project including the FMS period, if assigned by WESCO TPWODL. • Any other papers or documents required by PFCCL at a later stage or in future		
10.	Consortium Agreement Format entered amongst all Members of the Bidding Consortium as per format prescribed in Annexure 4		
11.	Power of Attorney by each Consortium Member in favor of Lead Consortium Member as per format prescribed in Annexure 5		
12.	prescribed in Annexure 6.		
13.	Letter of Consent by each Consortium Member reviewing each element of the Bid as per format prescribed in Annexure 7.		
14.	Company Profile document with evidence of fields of competence and office location for each Consortium Member.		
15.	For Meter Manufacturing Technical Experience (Refer Clause 4.3.1.A.4): All documents mentioned in Clause 4.3.1.A Contract/ Purchase Order (PO)/ Work Order (WO) indicating client name, scope of work, period of supply etc. A valid registration certificate of manufacturing unit and details of the facility. Valid NABL Accreditation Certificate as mentioned in Qualification Requirement. A valid ISO and OHSAS certificate on or before the date of publication of the tender		

S. No	Document	Attached? (Yes/ No)	For Official Use
16.	For Communications Network Experience (Refer Clause 4.3.1.B.4): All documents mentioned in Clause 4.3.1.B Certificate of Incorporation and Registration certificate along with Memorandum & Articles of Association. Copy of valid Licenses (In case of RF, Valid certificate issued by Wireless Planning & Coordination (WPC) Wing of the Ministry of Communications, GOI) Contract/ Purchase Order (PO)/ Work Order (WO) indicating client name, scope of work, period of work etc. Certificate from client on successful implementation of project Signed agreements/ MoUs for integration of NIC module or Certificate of successful integration A valid ISO/CMMi certificate as mentioned in Qualification Requirement.		
17.	For System Integration Experience (Clause 4.3.1.C.1)		
	 All documents mentioned in Clause 4.3.1.C.1 Integration with MDM (Refer Clause 4.3.1.C.1): Contract/ Purchase Order (PO)/ Work Order (WO) indicating client name, scope of work, period of work etc. Certificate from the client on successful implementation and operation of the project. For Cloud Service Provider (Refer Clause 4.3.1.C.2): All documents mentioned in Clause 4.3.1.C.2 Valid Empanelment certificates by MEITY (Ministry of Electronics and Information Technology) for Public cloud, Virtual Private Cloud and Community Government Cloud Self-experience certificate duly signed by the Authorized Signatory who is authorized to sign the Bid document for meeting Qualification Requirement as per clause 4.3.1.C.2 (b) to (e) Contract/ Purchase Order (PO)/ Work Order (WO) indicating client name, scope of work, period of work etc. as per clause 4.3.1.C.2 (f) A valid certificate as per clause 4.3.1.C.2 (g) 		
18.	For Meter Data Management Experience (Clause 4.3.1.D) All documents mentioned in Clause 4.3.1.D Contract/ Purchase Order (PO)/ Work Order (WO) indicating client name, scope of work, period of work etc Certificate from the client on successful implementation and operation of the project A valid ISO/ CMMi certificate on or before date of issuance of RfP		
19.	For Financial Strength (Refer Clause 4.3.1.E): Audited Annual financial statements, Balance Sheet and P&L Account of all Consortium Members for respective financial years.		
19.	Record of similar work done by each Consortium Member along with copy of Letter of Award or Work Orders showing activities carried out with necessary quantities along with contract value & Certificate of Satisfactory Completion from each client as per formats prescribed in Annexure 9		
20.	Curriculum Vitae of all personnel		
22.	Project Plan as mentioned in Clause 4.14.11.		
23.	Copy of Volume-I and Volume-II of this RFP with sign and official seal on every page.		
24.	Approach & Methodology for Project Execution		
25.	Undertaking to comply with the Public Procurement (Preference to Make in India) order issued by Department for Industrial Promotion & Internal Trade, Ministry of Commerce & Industry, Govt. of India dated 4.6.2020 as well as the Order issued by Ministry of Power (MoP), Govt. of India dated 2.7.2020 to protect the security, integrity and reliability of the strategically important and critical Power Supply System & Network in the Country.		
26	Undertaking that Meter Manufacturer/ Supplier who is participating as a Bidder/ Consortium Member in this RfP does not have 5 (five) or more AMI projects / 20 Lakhs AMI meters in India which are outstanding to be installed on the bid due date for submission.		

Volume-I, Clause 4.3.1 – Revised Qualification Requirement

Su	b-Contractor of	ufacturing (Meter Manufacturer/ Supplier has to be a Bidder or part of a Consortium (not necessarily as a Lead Bidder) and cannot participate as a any other Bidder. In case of a Consortium, this requirement has to be met individually by one of the Consortium Members in its entirety. However,
S.No	Description	cturer/ Supplier can participate as a Consortium Member only in one (1) Consortium) Qualifying Criteria Evaluation Documents Required
1	Technical Experience	a) The Bidder or any Consortium Member must have 1. Manufactured and supplied minimum 25,000 nos. (cumulative) AMI Meters and successfully integrated with its own or Third Party software and with the existing system of Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisees in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid Or Manufactured and supplied minimum 25,000 nos. (cumulative) AMR Meters along with required hardware, software & other associated accessories etc. and successfully integrated with its own or Third Party software and manufactured and supplied minimum 25,000 nos. (cumulative) Pre-payment Meters as per IS 15884 to Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid The Bidder/ Consortium Member claiming Global experience must bid
		through a company incorporated under Companies Act in India b) The Bidder/ Consortium Member must have manufacturing facility in India on the date of submission of bid and an in-house NABL accredited lab a) on or before the date of submission of bid or (b) before completion of Evaluation of Technical bids and Opening of Financial Bids. The Bidder/ Consortium Member claiming Global experience must supply the meters against this RfP from the manufacturing facility in India
2	Quality Certification	 a) The Bidder/ Consortium Member should be ISO 9001:2015 certified OR Bidder should have CMMI Level 3 (minimum) certification. b) Bidder/ Consortium Member should have ISO 14001 and OHSAS18001/ OHSAS45000 series certifications. i. For S.No. 2(a) - A valid ISO 9001:2015 / CMMI Level 3 (minimum) certificate on or before the date of submission of bid ii. For S.No. 2(b) - A valid ISO 14001 and OHSAS18001/ OHSAS45000 series certificates on or before the date of submission of bid
		ations Network Provider (CNP) (Any Bidder can use credentials of same CNP as a Sub-Contractor for meeting Qualifying Requirement. However, the in participate as a Consortium Member only in one (1) Consortium and in such a case, the CNP cannot be a Sub-Contractor of any other Bidder)
S.No.	Description	Qualifying Criteria Evaluation Documents Required
1.	Technical Experience	a) The CNP's RF Mesh should have been implemented in project(s) with at least 25,000 (cumulatively) communication module/ endpoints involving Radio Frequency (RF) mesh in India or abread Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution onwards) till the date of submission of bid. b) The CNP's must have successfully integrated their NIC/ Communication module must have been successfully integrated with meters of at least 3 manufacturers in India or abroad Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Tranchisee till HES and/or MDMS. i. Certificate of Incorporation and Registration certificate along with Memorandum & Articles of Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). ii. Certificate of Incorporation and Registration certificate along with Memorandum & Articles of Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). ii. Certificate of Incorporation and Registration certificate along with Memorandum & Articles of Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). iii. Certificate of Incorporation and Registration certificate along with Memorandum & Articles of Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). iii. Certificate of Incorporation of RIC only if the CNP is a Bidder or part of the Consortium). iii. Certificate of Incorporation of RIC only if the CNP is a Bidder or part of the Consortium). iii. Certificate of India or Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). iii. Certificate of India or Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). iii. Certificate of India or India or India or Association (This is required to be submitted only if the CNP is a Bidder or part of the Consortium). iii. Certificate of India or India o

2	Quality Certification	should have CMMI Level 3 (minimum) certification. b) CNP or the Original Equipment Manufacturer (OEM) from where CNP would be sourcing the hardware should have ISO 27001 and ISO 14001 certifications. In case, CNP would be sourcing the hardware from an OEM, then the OEM would have to submit an undertaking stating the required support from the OEM with respect to supply, support, etc. would be provided to the CNP during the entire contract period. In such a case, CNP and the OEM would be jointly and severally responsible for ensuring compliance of communication system requirements. e) CNP or the Original Equipment Manufacturer (OEM) should have ISO 14001 certificates (a) submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before completion of Evaluation of Technical bid submission of bid or (b) before comp	ii. For S.No. 2(b) - A valid ISO 14001 and ISO 27001 certificates (a) on or before the date of submission of bid or (b) before completion of Evaluation of Technical bids and Opening of Financial		
		n Integration (SI) - Integration with MDM (Any Bidder can use credentials of same SI as a Sub-Contractor for meeting Qualifyin			
		es, can participate as a Consortium Member only in one (1) Consortium and in such a case, the SI cannot be a Sub-Contractor of	any other Bidder)		
S.No.	Description		and with Mamarandum 2		
'	Technical Experience	· · · · · · · · · · · · · · · · · · ·			
	of	(CIM/XML/ IEC 61968 or any other open standard)) for at part of the Consortium)	ily if the Si is a bidder of		
	Integration		client name, scope of work		
	with MDM		ment hame, scope of work,		
	With William	Franchisees in the last 7 years (i.e. FY 2013-14 onwards) iii. Certificate from the client on successful implementation and op	eration of the project.		
		till the date of submission of bid. iv. In case SI is a Power Distribution Utility which is having an in I			
		submit documentary evidence of such experience with self-co			
		signatory of System Integrator.			
		Service Provider (CSP) (Any Bidder can use credentials of same CSP as a Sub-Contractor for meeting Qualifying Requireme articipate as a Consortium Member only in one (1) Consortium and in such a case, the CSP cannot be a Sub-Contractor of any o			
S.No.	Description				
	Technical				
	Experience		nly if the CSP is a Bidder		
	as Cloud Service	for Public cloud, Virtual Private Cloud and Community Government Cloud or part of the Consortium) ii. For S.No (a), Bidder should provide valid certificates			
	Provider	b) CSP Member must have at least 3 Data Centers in at least iii. For S.No (b), (c) and (d), Bidder should submit self-experience	e certificate duly signed by		
	1 TOVIGET	two different seismic zones in India the Authorized Signatory who is authorized to sign the Bid doct			
		c) CSP should have at least 5 different Internet Carrier iv. For S.No. (e), Contract/ Purchase Order (PO)/ Work Order (V			
		Terminating scope of work, period of work etc.	, , , , , , , , , , , , , , , , , , , ,		
		d) CSP should be having the capability to provide Hybrid			
		Cloud services, i.e. a combination of Private Cloud and			
		Public Cloud infrastructure from each availability zone.			
		e) CSP should have at least two (2) Work Orders from Central			
		Government/ State Government/ PSU /Semi- Government			
		of India in the last 7 years (i.e. FY 2013-14 onwards) till the			
	Quality	date of submission of bid. f) CSP should have the following Quality Certifications: Valid certificates on or before the date of submission of bid.			
	Certification				
I L	Commodition	ii 100/120 2.001 ootanoo tor information oodany war wor			

	i	planned and structured escalation procedures ii. Certified ISO/IEC 20000-1 for DC service quality and delivery iii. The data centers where cloud servers of CSP are hosted should be certified for minimum of Tier III level against TIA-942 specifications v. Must have Government Community Cloud running audited and successfully audited by STQC.			
		a Management Provider (MDMP) (Any Bidder can use creder		P as a Sub-Contractor for meeting Qualifying Requirement. However, h a case, the MDMP cannot be a Sub-Contractor of any other Bidder)	
S. No.	Description	Qualifying Criteria		Evaluation Documents Required	
1	Data handling Capability	a) The MDMP should have successfully implemented and integrated with HES for at-least 25,000 (cumulatively) numbers of smart meter/ AMI system and AMR system (managing 15/30 minutes interval data) out of which atleast 10% (i.e. at least 2,500 numbers cumulatively) should be of smart meter/ AMI system in any Indian/ Global Power Distribution Utility) or Indian Power Distribution Franchisees in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid.	Articles of Ass Bidder or part of ii. Contract/ Purcha period of work e iii. Certificate from	accorporation and Registration certificate along with Memorandum & sociation (This is required to be submitted only if the MDMP is a of the Consortium) asse Order (PO)/ Work Order (WO) indicating client name, scope of work, tc. client on successful implementation on and operation of project.	
2	Ease of integration with HES/ MDAS and Billing	a) The Proposed MDM should have been integrated with minimum 3 different Head End Systems/ MDAS system and 2 different billing system in any Indian/ Global Power Distribution Utility in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid.	i. Contract/ Purchase Order (PO)/ Work Order (WO) indicating client name, scope of work, period of work etc. ii. Client Certificate on successful implementation and operation of project.		
3	Quality	a) The MDMP should be a 9001:2015 or CMMI	i. For S.No. 3(a) -	A valid ISO 9001:2015 / CMMI Level 3 (minimum) certificate on or before	
	Certificati	Level 3 (minimum) certified.	the date of subn		
	on	b) MDMP should have ISO 27001 certification	ii. For S.No. 3(b) -	A valid ISO 27001 certificate on or before the date of submission of bid	
	QR - Financial C			5 d dia Barria di Barria di	
S.No.	Description	Qualifying Criteria	(a (E)) (a EV	Evaluation Documents Required	
1	Financial Requirement	 a) Net Worth in best Three Financial Years out of the last fix 2015-16 onwards) should be positive. Net worth shall be a Companies Act, 2013. b) Minimum Average Annual Turnover (MAAT) of the bidder Three Financial Years out of the last five (5) Financial Years onwards) should not be less than INR 100 Cr. MAAT income as incorporated in the profit & loss account eincome e.g. sale of fixed assets. 	er (Average of best ars i.e. FY 2015-16 means annual total	Audited Annual financial statements, Balance Sheet and P&L Account for the respective financial years.	

In case the experience in Indian Distribution Franchisees is claimed by the Bidder/ Consortium, then the following additional documents need to be submitted:

- a. Documentary evidence that the Distribution Franchisee has been selected through a competitive bidding process
- b. Copies of Contract/ Work Order (WO) along with any Contract Extension Order(s) issued to the Distribution Franchisee indicating the scope of work, no. of consumers to be handled, period of contract etc. The contract must be valid and in force as on the date of submission of bid
- c. Copies of Satisfactory Performance Certificate issued by the concerned Power Distribution Utility to the Distribution Franchisee. Such Performance Certificate should not be older than 30 days prior to the date of submission of bid.

Volume-I, Annexure A – Revised Tender Evaluation Methodology

S.No	Description	Qualifying Criteria	Max Score
1	Manpower Experience	Strength of the team proposed for undertaking the assignment including the qualification, experience and time proposed on field as well as on support & maintenance. (Bidders need to provide names of the team members proposed to be deployed along with their relevant experience and Curriculum Vitae signed by the respective person and counter signed by the Authorized Signatory signing the Bid. PFCCL/ WESCO TPWODL may ask for suitable substitution in place of the proposed manpower, if it is found that the manpower is not suitable as per the requirements of the assignment)	20
2	Meter Manufacturing Experience	The Bidder or any Consortium Member must have: a. Manufactured and supplied minimum 25,000 nos. (cumulative) AMI Meters and successfully integrated with its own or Third Party software and with the existing system of Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisees in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid Or Manufactured and supplied minimum 25,000 nos. (cumulative) AMR Meters along with required hardware, software & other associated accessories etc. and successfully integrated with its own or Third Party software and manufactured and supplied minimum 25,000 nos. (cumulative) Prepayment Meters as per IS 15884 to Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid	15
3	Experience in Integration with MDM	The System Integration (SI) must have experience of integration of HES with MDM on standard interfaces and data exchange models (CIM/XML/ IEC 61968 or any other open standard)) for at least 25,000 consumers (cumulatively) in Indian/ Global Power Distribution Utility(s) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid.	10
4	Experience as Cloud Service Provider	Cloud Service Provider (CSP) should have at least two (2) work orders from Central Government / State Government/ PSU /Semi- Government of India in last 7 years (i.e. FY 2013-14 onwards) (In case the Bidder is proposing more than one CSP, then marking would be done based on experience of that CSP which has lower no. of work orders)	10
5	Experience in Communication	The Communications Network Provider's (CNP's) RF Mesh should have been implemented in project(s) with at least 25,000 (cumulatively) communication module/ endpoints involving Radio Frequency (RF) mesh in India or abroad Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid	10
6	Experience as Meter Data Management (MDM) Provider	Meter Data Management Provider (MDMP) should have successfully implemented and integrated with HES for at-least 25,000 (cumulatively) numbers of smart meter/ AMI system and AMR system (managing 15/ 30 minutes interval data) out of which at-least 10% (i.e. at least 2,500 numbers cumulatively) should be of smart meter/ AMI system in any Indian/ Global Power Distribution Utility or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid	10
7	Approach & Methodology	Bidder to submit a brief on Approach & Methodology for executing the Project	10
8	Financial Criteria	Minimum Average Annual Turnover (MAAT) of the bidder (Average of best Three Financial Years out of the Last Five Financial Years i.e. FY 2015-16 onwards) should not be less than INR 100 Cr	15
		Total	100

The technical evaluation parameters have been discussed in detail below:

1. Manpower Experience (20% of Maximum Technical Score)
This evaluates strength of the team proposed for undertaking the assignment including the qualification, experience and time proposed on field as well as on support & maintenance.

The proposed core team shall comprise of the following experts:

Requirement	Criteria Cri	Score
Expert 1: Team Leader/ Project Manager	Expert in AMI Implementation including metering and related aspects, installation and management of smart meters, communication network, last mile connectivity, head end system and MDMS. He should have minimum 10 years of relevant experience.	5
Expert 2	Expert in System Integration covering application software, hardware and network installation, integration design and ability to manage multiple partners with different skill sets in different technology domains. He should have minimum 5 years of relevant experience.	5
Expert 3	Expert in cyber security related aspects covering planning & implementing high level system security requirements, managing data privacy & confidentiality, information flow through adequate authorizations, threat modelling & security testing. He should have minimum 5 years of relevant experience.	5
Expert 4	Expert in communication protocols and in implementing applications using different communication technologies and ensuring communication interoperability across applications/functionalities. He should have minimum 5 years of relevant experience.	5

Above core team shall not be allowed to be replaced during project execution. In exceptional cases same maybe done with prior approval.

2. Meter Manufacturing Experience (15% of Maximum Technical Score)

Requirement	Criteria	Score
Bidder or any Consortium Member must have	>=60,000	15
a. Manufactured and supplied minimum 25,000 nos. (cumulative) AMI Meters and successfully integrated with its own or Third Party software and with the existing system of Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14).	>= 40,000 and <60,000	10
onwards) till the date of submission of bid Or Manufactured and supplied minimum 25,000 nos. (cumulative) AMR Meters along with required hardware, software & other associated accessories etc. and successfully integrated with its own or Third Party software and manufactured and supplied minimum 25,000 nos. (cumulative) Pre-payment Meters as per IS 15884 to Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisee in the last 7 years (i.e FY 2013-14 onwards) till the date of submission of bid	>= 25,000 and <40,000	5

3. Experience as System Integrator (SI) with MDM (10% of Maximum Technical Score)

Requirement	Criteria	Score
The System Integrator (SI) must have experience of integration of HES with MDM on standard interfaces and data exchange models	>=60,000	10
(CIM/XML/ IEC 61968 or any other open standard)) for at least 25,000 consumers (cumulatively) in Indian/ Global Power Distribution	>= 40,000 and <60,000	7
Utility(s) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of submission of bid.	>= 25,000 and <40,000	5

4. Experience as Cloud Service Provider (CSP) (10% of Maximum Technical Score)

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Requirement	Criteria	Score			
Cloud Service Provider (CSP) should have at least two (2) work orders from Central Government / State Government / PSU /Semi-	>= 4	10			
Government of India in last 7 years (i.e. FY 2013-14 onwards) (In case the Bidder is proposing more than one CSP, then marking	=3	7			
would be done based on experience of that CSP which has lower no. of work orders)	=2	5			

5. Experience as Communication Network Provider (CNP) (10% of Maximum Technical Score)

Requirement	Criteria	Score
The Communications Network Provider's (CNP's) RF Mesh should have been implemented in project(s) with at least 25,000 (cumulatively) communication module/ endpoints involving Radio Frequency (RF) mesh in India or abroad Indian/ Global Power Distribution Utility(ies) or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the		10
date of submission of bid	>= 40,000 and <60,000	7
	>= 25,000 and <40,000	5

6. Experience as Meter Data Management Provider (MDMP) (10% of Maximum Technical Score)

Requirement	Criteria	Score			
The Meter Data Management Provider (MDMP) should have successfully implemented and integrated with HES for at-least	>=60,000	10			
25,000 (cumulatively) numbers of smart meter/ AMI system and AMR system (managing 15/ 30 minutes interval data) out of	>= 40,000 and <60,000	7			
which at-least 10% (i.e. at least 2,500 numbers cumulatively) should be of smart meter/ AMI system in any Indian/ Global Power Distribution Utility or Indian Power Distribution Franchisee in the last 7 years (i.e. FY 2013-14 onwards) till the date of	>= 25,000 and <40,000	5			
submission of bid					

7. Financial Criteria

Requirement	Criteria	Score
Minimum Average Annual Turnover (MAAT) of the bidder (Average of best Three Financial Years out of the Last Five	>= Rs 200 Cr	15
Financial Years i.e. FY 2015-16 onwards) should not be less than INR 100 Cr. MAAT means annual total income as	>= Rs 150 Cr and < Rs 200 Cr	10
incorporated in the profit & loss account except non-recurring income e.g. sale of fixed assets.	>= Rs100 Cr and < Rs 150 Cr	5

Annexure 1 to RfP: Format for Declaration of Bid Security

[On the official letterhead of the Bidder/ Lead Consortium Member of the Bidding Consortium]

[Reference No.] From:
[Address of the Lead Consortium Member]
[Telephone No., Fax No., Email], [Date]
To: Sh. Sachin Shukla General Manager PFC Consulting Limited 9th Floor, A-Wing, Statesman House Connaught Place, New Delhi – 110 001
Sub: Declaration of Bid Security in lieu of Bid Security in respect of RfP issued by PFCCL (RfP Nodated) for Appointment of Smart Grid Implementation Agency (SGIA) for implementation of Smart Grid in Rourkela Smart City in Odisha
Being duly authorized to present and act on behalf of
For and on behalf of [Insert name of the Bidder/ Lead Consortium Membe

[Insert Signature here]
[Insert Name here]
[Insert Designation here]
[Insert Date here]
[Insert Place here]

Volume-I, Annexure 10 – Revised Format of Bill of Quantities

A. Supply of Items

S. No.	o. Particulars		Total Base Year Quantity	Total Incremental Quantity over a period of 10 years	Total Quantity over a period of 10 years
1	2	4	5A	5B	5C=5A+5B
A.	SMART METERS				
1	Single Phase SMART Meters (5-30 A) (Consumer End) with Modular RF Mesh Module (for installation with each meter)	No.s	33596	11554	45150
2	Single Phase SMART Meters (10-60 A) (Consumer End) with Modular RF Mesh Module (for installation with each meter)	No.s	50395	17332	67727
3	Three Phase SMART Meters (20-100 A) (Consumer End) with Modular RF Mesh Module (for installation with each meter)	No.s	5050	1106	6156
4	Three Phase LT-CT SMART Meters (/5A) (Consumer End) with Modular RF Mesh Module (for installation with each meter)	No.s	431	149	580
5	Single Phase SMART Meters (5-30 A) (at DT) with Modular RF Mesh Module (for installation with each meter)	No.s	283	0	283
6	HT SMART Meters (/5A) (Consumer End) with Modular RF Mesh Module (for installation with each meter)	No.s	99	22	121
7	Three Phase LT-CT SMART Meters (at DT) with Modular RF Mesh Module (for installation with each meter) (Please refer Sheet named "LT-CT SMART Meters (at DT)")	No.s	1115	0	1115
8	HT SMART Meters (/5A) (at Feeder) (11KV Feeder) with Modular RF Mesh Module (for installation with each meter)	No.s	10	0	10
9	HT SMART Meters (/1A) (at Feeder) (11KV Feeder) with Modular RF Mesh Module (for installation with each meter)	No.s	37	0	37
10	HT SMART Meters (/5A) (at Feeder) (33KV Feeder) with Modular RF Mesh Module (for installation with each meter)	No.s	4	0	4
11	HT SMART Meters (/1A) (at Feeder) (33KV Feeder) with Modular RF Mesh Module (for installation with each meter)	No.s	14	0	14
12	Box for Single Phase SMART Meters (5-30 A)	No.s	33879	11554	45433
13	Box for Single Phase SMART Meters (10-60 A)	No.s	50395	17332	67727
14	Box for Three Phase SMART Meters (20-100 A)	No.s	5050	1106	6156
15	Box for Three Phase LT-CT SMART Meters (/5A)	No.s	1546	149	1695
16	Box for HT SMART Meters (/5A)	No.s	113	22	135
17	Box for HT SMART Meters (/1A)	No.s	51	0	51
18	Data Concentrator Units/ Gateway/ Router for forming RF Mesh Canopy	Lumpsum		1	
19	Additional 10% Cable for Single Phase SMART Meters (5-30 A) (Consumer End) Additional 10% Cable for Single Phase SMART Meters (10-60 A) (Consumer End)	Lumpsum		1 1	
20 19	Additional 10% Cables (Service cables and DTR cables)	Lumpsum Lumpsum		<u></u>	
18	- Additional 1070 Gasido (3017100 Gasido and DTA Gasido)	-umpount		+	
В.	IT INFRASTRUCTURE		l		
1	IT Infrastructure over cloud & Connectivity, system Integration (Including application License fees) and any Specifications of RfP	y other hardw	are equipmen	t/ software as defined	in the Technical
i.	Head End System with Integration	Lumpsum		1	
ii.	Meter Data Management System	Lumpsum			
iii.	Android &/ IOS Mobile App and web portal.	Lumpsum 1			
iv.	NMS System	Lumpsum		1	
V.	Database Software & Centralised NMS management s/w	Lumpsum		1	
vi.	GIS System (including relevant software) & License including Technical audit of substations and Preparation of	•			

	digitized network on base map in pre-defined scale with features and attributes of data collected through survey for GIS application.		
vii.	System Implementation including integration with Cloud and MDM Integration with Billing & other systems	Lumpsum	1
C.	SMART GRID CONTROL ROOM INFRASTRUCTURE (Supply & Installation)		
1	Desktops/ Workstation (with UPS, Table, Chair, OS and latest MS Office)	No.s	2
2	Network LaserJet (B/W) Photo copy, scanning and Printing	No.s	2
3	A4 Size Inkjet / Bubble Jet printer	No.s	2
4	A3 Size Inkjet Color Printer/All in one Color laser jet Printer	No.s	1
5	Work Station with Dual TFT Monitors	No.s	4
6	NMS System	No.s	4
6	Antivirus Software/ UTM application	Lumpsum	1
8	Database Software & Centralised NMS management s/w	No.s	2

B. Erections of Items

S. No.	Particulars	Unit	Total Base Year Quantity	Total Incremental Quantity over a period of 10 years	Total Quantity over a period of 10 years
1	2	3	4A	4B	4C=4A+4B
1	Single Phase SMART Meters (5-30 A) (Consumer End)	No.s	33596	11554	45150
2	Single Phase SMART Meters (10-60 A) (Consumer End)	No.s	50395	17332	67727
3	Three Phase SMART Meters (20-100 A) (Consumer End)	No.s	5050	1106	6156
4	Three Phase LT-CT SMART Meters (/5A) (Consumer End)	No.s	431	149	580
5	Single Phase SMART Meters (5-30 A) (at DT)	No.s	283	0	283
6	HT SMART Meters (/5A) (Consumer End)	No.s	99	22	121
7	Three Phase LT-CT SMART Meters (at DT)	No.s	1115	0	1115
8	HT SMART Meters (/5A) (at Feeder) (11KV Feeder)	No.s	10	0	10
9	HT SMART Meters (/1A) (at Feeder) (11KV Feeder)	No.s	37	0	37
10	HT SMART Meters (/5A) (at Feeder) (33KV Feeder)	No.s	4	0	4
11	HT SMART Meters (/1A) (at Feeder) (33KV Feeder)	No.s	14	0	14
12	Box for Single Phase SMART Meters (5-30 A)	No.s	33879	11554	45433
13	Box for Single Phase SMART Meters (10-60 A)	No.s	50395	17332	67727
14	Box for Three Phase SMART Meters (20-100 A)	No.s	5050	1106	6156
15	Box for Three Phase LT-CT SMART Meters (/5A)	No.s	1546	149	1695
16	Box for HT SMART Meters (/5A)	No.s	113	22	135
17	Box for HT SMART Meters (/1A)	No.s	51	0	51
18	Data Concentrator Units/ Gateway/ Router for forming RF Mesh Canopy	Lumpsum	1		

C. Year 1 FMS Cost

S. No.	S. No. Particulars		Total Base Year Quantity
1	2	3	4
1	Year 1 FMS Cost (inclusive of Year 1 charges towards GIS updation & monthly cloud usage)	Lumpsum	91034

D. Details of LT-CT SMART Meters (at DT)

S.No	Transformer Rating (in KVA)	No. of Transformers	No. of Circuit	No. of LT-CT meters at DT Level	CT Ratio
1	1000	6	4	24	800/5
2	630	6	4	24	800/5
3	500	141	3	423	800/5
4	315	33	2	66	400/5
5	250	113	2	226	400/5
6	200	14	2	28	400/5
7	100	274	1	274	200/5
8	63	29	1	29	100/5
9	25	21	1	21	100/5
		Total	1115		
No. of	LT-CT Non-Smart Meters at DT Le	vel already under impleme	230		
Total I	No. of LT-CT Smart Meters requir	1115			