	Appendix A - Corrigendum			
S.no.	Reference	Existing Clause	Revised Clause	
1	DD. BILLING AND PAYMENT TERMS ATS	Software ATS Cost for 4 years: After one year warranty period, ATS Cost to be paid for 4 years at the end of each year from second year onwards during contract period.	Software ATS Cost for 5 years: 1/5th cost to be paid Annually at the beginning of each year for 5 years after 1 year of Go-live declaration. Note: Note: 1) ATS Charges are payable after 1 year of Go-live declaration (to be started after the end of 1 yr. warranty/first year ATS). 2) If Go-Live is delayed, bidder will responsible for ATS charges for the	
2	DD. BILLING AND PAYMENT TERMS FMS	FMS for 5 years After successful Final Stabilization Acceptance of system, to be paid quarterly at the end of each quarter till the end of contract of period for next 5 years	FMS for 66 months. After successful Go-Live of the system, to be paid quarterly at the end of each quarter till the end of contract period for next 66 months.	
3	DD. BILLING AND PAYMENT TERMS Cloud Service Cost	The Cloud Services cost will start from date of Final Stabilization Acceptance. To be paid quarterly at the end of each quarter for 5 years	The Cloud Services cost will start from date of Go-Live of the system to be paid quarterly at the end of each quarter for 66 months.	
4	3.2.13 TRAINING	3.2.13 TRAINING	3.2.14 HAND-HOLDING (Renamed)	
5	3.2.13 TRAINING	NIL	Added: 3.2.13 TRAINING: a. The bidder shall be responsible to provide handover training to relevant user group (Minimum 20 representatives) of MSEDCL. For the same, the bidders shall prepare a training schedule (For a period of minimum 10 days). b. The bidder shall provide comprehensive training to the MSEDCL officials. The training shall also include the necessary inputs that need to be fed into the application for updation of the databases. The bidders should also clearly earmark the various sources from which MSEDCL can continue to source inputs for updating the application. c. The bidder should provide necessary training in order to revise/modify the scheduling parameters as per method specified in MSEDCL scheduling procedure. d. The other activities related to training shall be: 1. Preparing user manuals and FAQs for training. 2. Maintaining a help line for queries from end users 3. System administration testing to be provided to MSEDCL for first	
6	Clause 5.6.A.e	The exclusion will be imposed for a minimum of 6	level support The exclusion will be imposed for a minimum of 6 months and a	
7	3.2 DETAILED SCOPE OF WORK 3.2.22 OPERATIONAL SUPPORT AND MAINTENANCE OF THE SOLUTION	months and a maximum of 3 years OEM Support: The bidder should have a back-end support agreement/arrangement for Business Analytics and Energy Load Forecasting Solution support with the Original Equipment Manufacturers (OEMs) for the entire project period. It is mandatory for the bidder to provide Manufacturer's Authorization Form #13 (MAF) from OEMs of both software and hardware with the bid.	DEM Support: The bidder should have a back-end support agreement/arrangement for Business Analytics and Energy Load Forecasting Solution support with the Original Equipment Manufacturers (OEMs) for the entire project period. It is mandatory for the bidder to provide Manufacturer's Authorization Form #12 (MAF) from OEMs of both software and hardware with the bid. In case the OEM is the bidder himself, a self-certified MAF should be submitted.	
8	3.2 DETAILED SCOPE OF WORK 3.2.14	The Service Provider shall be responsible for providing the warranty of all software and associated accessories during the three-years operational and maintenance period	The Service Provider shall be responsible for providing the warranty of all software and associated accessories during the 66 months operational and maintenance period Liability: Subject to additional provision, if any, the Bidder's	
9	5.4 (v)	Liability: Subject to additional provision, if any, the Bidder's liability under this contract shall be as provided by the Applicable Law	liability under this contract shall be as provided by the Applicable Law. Bidder's Liability shall be capped to the Contract Value.	

	Annexure A - Corrigendum				
S.no.	Reference	Existing Clause	Revised Clause		
10	6. SPECIAL CONDITIONS OF CONTRACT SS. PROFILES OF TEAMS	The bidder shall submit the details of experience with proof as per the format in Form #3	The bidder shall submit the details of experience with proof as per the format in Form #2		
11	4.1.2.1 Qualification criteria for Bidder Sr. no. 1	Bidder: The bidder should be an individual organization registered in India under companies Act 1956 or Companies Act 2013, or Firm registered with Registrar of firms in India who fulfils the eligibility criteria. Documents Required: Certificate of Incorporation issued by Registrar of Companies or Article of Association or certificate issued by Registrar of Firms	Bidder: The bidder should be an individual organization or consortium of maximum two organisations, registered in India under companies Act 1956 or Companies Act 2013 or Limited Liability Partnership Act 2008 or Firm registered with Registrar of firms in India who fulfils the eligibility criteria. In case of consortium, one of the consortium members responsible for performing key components of the contract shall be designated as Lead Bidder. Evidence of this authorization shall be provided by submitting a power of attorney signed by legally authorized signatories of all consortium members along with the bid. The lead bidder shall have a registered office and operations in India for at least one year prior to submission of the bid. Also each member of consortium shall have registered office in India. In case of consortium, each member should fulfill this criteria separately Documents Required: Certificate of Incorporation issued by Registrar of Companies OR Article of Association OR certificate issued by Registrar of Firms In the case of a consortium, in addition to the above documents, the consortium agreement AND Power of Attorney in favour of the lead bidder need to be submitted as per the format (Form #16 & FORM #17) given in the RFP.		
12	4.1.2.1 Qualification criteria for Bidder Sr.no. 2	The Bidder (individual/ all members of consortium) shall have a valid PAN and GSTIN Number. Documents Required: Copy of relevant certificates indicating PAN number, GST registration number (GSTIN).	The Bidder (individual/ all members of consortium) shall have a valid PAN and GSTIN Number. Documents Required: Copy of relevant certificates indicating PAN number, GST registration number (GSTIN). In case of consortium, each member should submit documents separately.		
13	4.1.2.1 Qualification criteria for Bidder Sr.no. 3	The bidder must have minimum average annual turnover of Rs. 100 Crores of last three audited Financial Years (2019-20, 2020-21, 2021-22). If the audited balance sheet of FY 2021-22 is not available, then the minimum average Annual Turnover of last 3 Audited Financial Years (2018-19,2019-20, 2020-21) will be considered.	The bidder must have minimum average annual turnover of Rs.100 Crores of last three audited Financial Years (2019-20, 2020-21, 2021-22). If the audited balance sheet of FY 2021-22 is not available, then the minimum average Annual Turnover of last 3 Audited Financial Years (2018-19,2019-20, 2020-21) will be considered. Lead Bidder shall meet at least 51% of the Turnover criteria and other consortium member shall meet at least 25% of Turnover Criteria.		
14	4.1.2.1 Qualification criteria for Bidder Sr. no. 4	revaluation) reduced by aggregate value of	If the audited financial sheets of FY 2021-22 is not available, then the Net Worth of last 3 Audited Financial Years (2018-19,2019-20, 2020-21) will be considered. Net worth means the sum total of the paid up capital and free		

	Annexure A - Corrigendum			
S.no.	Reference	Existing Clause	Revised Clause	
15	4.1.2.1 Qualification criteria for Bidder Sr. No. 5	Bidder shall have experience of implementation of Load Forecasting solution using artificial intelligence and machine learning technology. Above experience should be during the last 7 years since date of publishing of this tender as below: i.Experience in single project costing not less than the amount equal to Rs. 32 Crores (without taxes) OR ii.Experience in two projects each costing not less than the amount equal to Rs. 20 Crores (without taxes) OR iii.Experience in three projects each costing not less than the amount equal to Rs. 16 Crores (without taxes) Note: 1.For above experience, completed projects and ongoing projects whose go-live declared before date of publishing this tender shall be considered. 2.If the project mentioned in the experience is executed by JV/Consortium, where bidder is one of the JV partner/consortium ember, the role of bidder in the project should be clearly mentioned along with value of contract pertaining to bidder's role in the project. In support of this, bidder has to submit a copy of agreement or client certificate. 3. Projects done for in-house use of parent company, associate companies (with common stakeholders) would not be considered. However, projects done for setzemal customer(s) by parent company or fully owned subsidiaries would be considered. 4.At least one of the project in above experience, shall be for implementation of proposed OEM solution. Documents Required:	Bidder shall have experience of implementation of Data Analytics / Predictive Analysis / Forecasting /Business Intelligence / optimization / portfolio management / trade desk operations using Artificial intelligence / Machine learning technology, during last 7 years since date of publishing of this tender as below : Experience in single project costing not less than the amount equal to Rs. 14.80 Crores (without taxes) OR Experience in two projects each costing not less than the amount equal to Rs. 9.25 Crores (without taxes) OR Experience in three projects each costing not less than the amount equal to Rs. 9.25 Crores (without taxes) OR II. Experience in three projects each costing not less than the amount equal to Rs. 7.40 Crores (without taxes) Note: 1. For above experience, completed projects and ongoing projects whose go-live declared before due date of tender shall be considered. 2. If the project mentioned in the experience is executed by IV/Consortium, where bidder is one of the IV partner/consortium member, the role of bidder in the project should be clearly mentioned along with value of contract pertaining to bidder's role in the project. In support of this, bidder has to submit a copy of agreement or client certificate. 3. Projects done for in-house use of parent company, associate companies (with common stakeholders) would not be considered. However, projects done for external customer(s) by parent company or fully owned subsidiaries would be considered. In case of consortium, this QR is to be met collectively. Documents Required: Documents Required: Documents Required: Documents Required: The references should indicate client name, scope of work, project start date and date of completion / date of go-live declaration in all respect. The Client Certificate should clearly indicate the project implementation is done using Artificial intelligence/Machine Learning Technology.	
16	"4.1.2.1 Qualification criteria for Bidder Sr. No. 6"	New Clause	The bidder / OEM of proposed solution should have experience of implementation of minimum 3 projects during last 7 years since date of publishing of this tender, out of which at least 1 project should be in India. These projects should include any 3 functionalities out of the following functionalities, wherein load forecasting should be mandatorily implemented: 1. Load Forecasting including short term, medium term, long term and RE forecasting (mandatory) 2. Scenario Analysis 3. Demand Supply position map 4. Energy Portfolio Management 5. Scheduling Optimization 6. Trade Optimization 7. Real time Network Monitoring and Demand Management 8. Deviation Settlement Analysis Note: 1) In case of OEM experience is shown to fulfill this QR, OEM should be responsible for implementation of solution. OEM should submit the undertaking for successful implementation. 2) The references should indicate client name, scope of work, project start date and date of completion/date of go-live declaration, functionalities covered in the project etc. Documents Required: Documents Required:	
17	4.1.2.1 Qualification criteria for Bidder	The CSP (Cloud Service Provider) should be a MeitY empaneled CSP and STQC Audit Complaint.	Deleted	
18	4.1.2.1 Qualification criteria for Bidder	The bidder must have at least 500 employees on its payroll at the time of Bidding performing software design, development, implementation, integration, testing, maintenance and support activities.	The bidder must have at least 100 employees on its payroll at the time of Bidding, performing software design, development, implementation, integration, testing, maintenance and support activities. In case of consortium, this QR is to be met collectively.	
19	4.1.2.1 Qualification criteria for Bidder	The Bidder should not have been blacklisted by any Private/ PSU/Central Govt/State Govt. or any other Organization or agencies in India at the time of submission of the bid. Documents Required: Letter from authorized signatory on the letter head of Bidder regarding non-blacklisting.	The Bidder should not have been blacklisted by any Private/PSU/Central Govt/State Govt. or any other Organization or agencies in India at the time of submission of the bid. Documents Required: Letter from authorized signatory on the letterhead of Bidder regarding non-blacklisting. In the case of a consortium, this QR is to be met by each member of the consortium separately.	

		Annexure A - Corrigendun	n
S.no.	Reference	Existing Clause	Revised Clause
20	4.1.2.2 Qualification Criteria for OEM	The OEM for Demand Forecasting and Analytics solution should be in Leaders or challengers in Gartner's Magic Quadrant for Data Science and Machine Learning as per latest report. Documents Required: Latest report of Gartner Magic Quadrant for Data Science & Machine Learning Tools	Deleted
21	4.1.2.2 Qualification Criteria for OEM	The proposed Demand Forecasting & Analytics Solution should be Commercial off the Shelf (COTS) product, which is configurable/customizable with the requirements of the department to reduce implementation efforts, time and cost. The same should be, successfully deployed and should be operational in more than 5 Power Utilities globally, out of which at least 2 power utilities should be in India, in past 5 years.	The proposed Demand Forecasting & Analytics Solution should be configurable/customizable with the requirements of the department to reduce implementation efforts, time and cost. The same should be, successfully deployed and should be operational in more than 3 companies in Power Sector, out of which at least 1 implementation should be in India, during past 7 years.
22	4.1.2.2 Qualification Criteria for OEM	The entire Demand Forecasting and analytics solution, comprising of Data Preparation, Visualization, Forecasting, Machine Learning, Optimization, Streaming Analytics modules should be from single OEM.	Deleted
23	6 SPECIAL CONDITIONS OF CONTRACT DD. BILLING AND PAYMENT TERMS Sr. no. 1 Software Licenses Cost with 1 year warranty	100 % to be paid upon successful Go-live. Till Go-Live of the project, bidder should provide the Test/ development environment with no additional cost.	- 40% of product cost to be paid after successful Go-Live of respective solution as per the Specifications. - 40% of product cost to be paid after the successful Stabilization of respective solution as per the Specifications. - 20% of product cost to be paid after stabilization over 5 years period in equated Quarterly instalments. Note: Warranty will start after Go-live and same shall include ATS of first year (if applicable). Till Go-Live of the project, bidder should provide the Test/development environment with no additional cost.
24	6 SPECIAL CONDITIONS OF CONTRACTV		IMPLEMENTATION TIMELINES a. The Zero date of the contract shall commence from the date of issue of LOA by the EMPLOYER. Time period of contract is 72 months. The implementation timelines will be as follows: Declaration of Go-live: After successful implementation of BUSINESS ANALYTICS AND DEMAND FORECASTING SOLUTION Within 6 Months from the issuance of the Letter of Award Stabilization acceptance6 months after Go-live Deployment of Facility Management Services66 Months from Go-Live.
25	8ANNEXURES & FORMS Form # 5 Price Schedule		Price Bid Format changed

	Annexure A - Corrigendum				
S.no.	Reference	Existing Clause	Revised Clause		
26	6 SPECIAL CONDITIONS OF CONTRACTO	iv. The bidder will provide the following: Performance Guarantee (PG) in the form of unconditional Bank Guarantee (as per the format specified in the tender) for not less than 10% of the Contract Value for the IMPLEMENTATION OF BUSINESS ANALYTICS AND DEMAND FORECASTING SOLUTION as per criteria defined in this document. The Performance Bank Guarantee should be valid from the date of start of the project for 72 months and additional 6 months claim period required.	iv. The bidder will provide the following: Performance Guarantee (PG) in the form of unconditional Bank Guarantee (as per the format specified in the tender) for not less than 5% of the Contract Value for the IMPLEMENTATION OF BUSINESS ANALYTICS AND DEMAND FORECASTING SOLUTION as per criteria defined in this document. The Performance Bank Guarantee should be valid from the date of start of the project for 72 months and additional 6 months claim period required.		
27	6 SPECIAL CONDITIONS OF CONTRACTL	Within 14 (fourteen) days of receipt of the Letter of Award from the Employer, the successful bidder shall furnish to the Employer a Performance Bank Guarantee Bond for proper performance of the Contract as well as satisfactory performance of operational support, Product & Implementation to an amount not less than Ten Percent (10%) of the Contract Price in accordance with the Conditions of Contract.	Within 14 (fourteen) days of receipt of the Letter of Award from the Employer, the successful bidder shall furnish to the Employer a Performance Bank Guarantee Bond for proper performance of the Contract as well as satisfactory performance of operational support, Product & Implementation to an amount not less than Ten Percent (5%) of the Contract Price in accordance with the Conditions of Contract.		
28	6 SPECIAL CONDITIONS OF CONTRACTX	viii. The bidder shall stand guarantee for the overall performance of the contract including for the supplies made/work done and work to be done by their Bidder members. Towards this guarantee, the Bidder shall submit a performance BG/security deposit for 10% of the Contract Price as per tender Conditions.	viii. The bidder shall stand guarantee for the overall performance of the contract including for the supplies made/work done and work to be done by their Bidder members. Towards this guarantee, the Bidder shall submit a performance BG/security deposit for 5% of the Contract Price as per tender Conditions.		
29	7 APPENDICESAppendix # 1 BANK GUAF	Footnote: An amount to be inserted by the Guarantor, representing 10% of the Contract Price and denominated in Indian Rupees as specified in the Contract.	Footnote: An amount to be inserted by the Guarantor, representing 5% of the Contract Price and denominated in Indian Rupees as specified in the Contract.		
30	6 SPECIAL CONDITIONS OF CONTRACT SS. PROFILES OF TEAMS	The bidder shall submit the details of experience with proof as per the format in Form #3	Deleted		
31	"8 ANNEXURES & FORMS Form # 5 Price Schedule" Price Bid Format changed	AWS Cloud Service Cost for 5 Years	Cloud Service Cost for 66 months		
32	3.4.6Cloud Infrastructure J. Connectivity & Cloud Hosting		Added: 1. Bidder can subcontract cloud hosting to a CSP (Cloud Service Provider). 2. The successful bidder may host the proposed solutions on MSEDCL existing Cloud (AWS) or any other cloud which should be MeitY empanelled CSP and STQC Audit Compliant during the entire contract period. The recurring cloud infrastructure cost shall be borne by the Bidder.		
33	3.4.6Cloud Infrastructure J. Connectivity & Cloud Hosting	f.The bidders solution deployed on cloud should be immune to cyber attacks. Latest Cyber Security Guidelines issued by CERT-In specified at http://www.cert-in.org.in/, Ministry of Power or any other competent authority shall be followed.	f.The bidders solution deployed on cloud should be immune to cyber attacks. Latest Cyber Security Guidelines issued by CERT-In specified at http://www.cert-in.org.in/, Ministry of Power or any other competent authority shall be followed. Bidder should ensuring CERT-IN audit (VAPT) once in a year for implemented solution		
34		b) Forecast accuracy level must be within the range of $\pm 1\%$ on each day basis. In absence of accuracy level as prescribed (i.e. within the range of $\pm 1\%$ on each day basis) no payment (as per sr. 5 of above payment schedule table) shall be made for that day.	b) Forecast accuracy level must be as per clause 6. UU "Service Level Agreement (SLA)". In absence of accuracy level as prescribed, the bidder would be penalised accordingly.		

	Annexure A - Corrigendum			
S.no.	Reference	Existing Clause	Revised Clause	
35	3.2 DETAILED SCOPE OF WORK3.2.1 De	Kindly note that demand forecasted shall be schedulable demand at T-D interface points. Further demand shall also be forecasted at Distribution end considering impact of Distributed Generation including Roof Top Solar."	Kindly note that demand forecasted shall be schedulable demand at T-D interface points. Further demand shall also be forecasted at Distribution end considering impact of Distributed Generation including Rooftop Solar." For example Demand without Distributed generation is forecasted as 20,000 MW & Distributed Generation is forecasted as 210,000 MW & Distributed Generation is forecasted as 250 MW for said time block, then Demand schedulable at T-D interface i.e which will be measured for DSM calculation by MSLDC will be difference of two; which will be 19750 MW.	
36	3.2 DETAILED SCOPE OF WORK3.2.4 Energy	k)Coal Analysis.	k)Coal Analysis: i. Macro-Level analysis of Availability of Coal from domestic and Imported market for the period up to FY 2035-36. ii. Domestic coal availability to be studied on the basis of data/reports published by CIL and information made available by CIL through communication and its impact on availability. iii. Imported Coal availability to be assessed based on demand supply position in international markets (majorly Indonesian/South African and Australian markets) and to be based on reports published by Govt. entities of these Countries	
37	6. Special conditions of contract"6.u	>=97% accuracy over minimum 60% of time for cumulative of 96 buckets per day X 30 days (G) >=95% <97% accuracy over minimum 15% of time for cumulative of 96 buckets per day X 30 days (H) >=90% <95% accuracy over minimum 15% of time for cumulative of 96 buckets per day X 30	Day Ahead Forecast >=97% accuracy over minimum 60% of time for cumulative of 96 buckets per day X 30 days (G) >=95% accuracy over minimum 75% of time for cumulative of 96 buckets per day X 30 days (H) >=90% accuracy over minimum 90% of time for cumulative of 96 buckets per day X 30 days (I)	
38	6. SPECIAL CONDITIONS OF CONTRACT"6.U	days (I) Following service levels are required to be provided by the bidder during contract period.	Following service levels are required to be provided by the bidder during contract period. The SLA penalty shall be limited to 10% of the Total FMS cost.	
39	5.4 (vi) Bidder's actions requiring owner's prior approval	ii) Taking up a similar kind of project elsewhere during discharge of duties /obligations under this contract.	Deleted	
40	Clause NO, 3.2.1.c.ii DEMAND FORECASTING Long term load forecast (in MU as well as MW)	Monthly Load profile (Hourly) for typical normal day and Sunday for coming 1-30 years	Monthly Load profile (Hourly) for typical normal day and Sunday for coming 1-15 years	
	3.2 DETAILED SCOPE OF WORK 3.2.1 DEMAND FORECASTING Functional Requirements a) Short Term Demand Forecast (in MU as well as MW)	"a) Short-Term Demand Forecast (in MU as well as MW) Intra-day (Real-time) – block/ hourly/15 minutes. Day ahead /hourly/15 minutes 24Hrs Forecast to Week Ahead forecast at 15-minute Intervals.	a) Short Term Demand Forecast (in MU as well as MW) -Intra-day (Real time) – block, hourly, 15 minutes & 5 minutesDay ahead , hourly, 15 minutes & 5 minutes24Hrs Forecast to Week Ahead forecast at 15-minutes/5 minutes Interval	
	3.2 DETAILED SCOPE OF WORK 3.2.1 DEMAND FORECASTING Functional Requirements b) Medium Term Load Forecast (in MU as well as MW)	i.Hourly /15 Minutes Demand Forecast for next 5 (five) years for MSEDCL overall	i. Hourly, 15 Minutes & 5 minutes Demand Forecast for the next 5 (five) years for MSEDCL overall	
43	3.2 DETAILED SCOPE OF WORK3.2.15	Details of 5 minutes/15 minutes time block-wise comparison of entitlement and Schedule Drawl	Details of 15 minutes & 5 minutes time block-wise comparison of entitlement and Schedule Drawl	
44	8. ANNEXURES & FORMS	Form # 9 Format for Hardware Specification	Form # 9 Format for Cloud Infrastructure Specifications	
45	8 ANNEXURES & FORMS		Added: Form # 17 FORMAT FOR CONSORTIUM AGREEMENT format Form # 16 POWER OF ATTORNEY format	

Annexure A - Corrigendum			
S.no.	Reference	Existing Clause	Revised Clause
46	IA BRIFF SCOPE	Design, Implementation, commissioning of Business Analytics and Demand forecasting, Power Optimization Solution	a. Design, Implementation, commissioning of Business Analytics and Demand forecasting software solution with following modules • Load Forecasting including short term, medium term, long term and RE forecasting • Scenario Analysis • Demand Supply position map • Energy Portfolio Management • Scheduling Optimization • Trade Optimization • Real time Network Monitoring and Demand Management • Deviation Settlement Analysis