



**INVITATION TO
MED-TSO TENDER FOR:**

**MED-TSO web-based database (DBMED)
Evolution**

TEASIMED Project
General Technical prescriptions
and application procedures



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PART A - Introduction to the tender and its objective

1. Framework

Med-TSO - Mediterranean Transmission System Operators, is a legally recognized association established in Rome, on April 19th 2012, involving the Mediterranean Transmission System Operators (TSOs) for electricity, operating the High Voltage Transmission Networks of 19 Mediterranean Countries

Med-TSO has legal headquarters at Terna S.p.A., in viale Egidio Galbani 70, 00156 Rome - Italy and Operational Headquarters at Terna S.p.A. , in via della Marcigliana, 911 - 00138 Rome – Italy.

MED-TSO Association is committed to supply its Members with a web-based database (in the following “DBMED”) for the core technical activities of the Association. A first attempt of DBMED covering mainly a specific section to host grid models was created under the 1st Mediterranean Project MP1 (2015-2018).

Being aware of the increasing needs of the association, Med-TSO intends to tender consulting services aiming to let DBMED evolve to become Med-TSO’s backbone for data sharing in all the technical activities of the Association by creating new sections and improving the existing ones.

The web-based database activities are within Task 1.4 of the New Mediterranean Project called **TEASIMED (Towards an Efficient, Adequate, Sustainable and Interconnected MEDiterranean power system)**, co-funded by the European Commission (EC) through the Grant Contract “EXTERNAL ACTIONS OF THE EUROPEAN UNION (EU) - ENI/2020/417-547”.

2. Object and scope of the tender

DBMED is structured into several sections, only one of them is actually operational.

Objective is that it needs to be logically organized into Four sections:

- a) **Network section** – network data for load flow calculations as input and the output result, models, to be included
- b) **Market section** – input data necessary for market studies and results/outputs to be stored in DBMED, some data processing automations need to be included as well. the possibility to host a market modelling software should be assessed, considered and evaluated during the process.
- c) **Adequacy section** – input data necessary for adequacy studies following predefined templates, results/outputs to be stored, some data processing automations may be added as well.
- d) **Transparency and Power statistics section** – forecasted, historical and statistical data for reporting purposes, without duplicating the previous data sets.

The selected service provider will be supplied with the code of DBMED in its actual version in order for him to decide the best way to use it.



You may refer to the DBMED overview report https://www.med-tso.com/publications/DBMED_Overview.pdf for a better understanding of the actual capabilities of DBMED.

- a) The proposal shall include training, support and maintenance offers.
- b) DBMED is structured in a way that allows different levels and restrictions of accessing its different sections. This needs to be kept/modified according to Med-TSO instructions.
- c) DBMED should include functionalities of loading, consistency check and importing data.
- d) DBMED shall include functionalities that enable exporting data in different formats.
- e) The Application GUI will allow users to view, aggregate (query) and modify data (flexible solution for modifying data is desirable, either directly from GUI or uploading a data file) subject to the specific user's permissions and profile. The Administration / super Users should be able to connect to DBMED via self-Service-Business-Intelligence-Products (Tableau, QlikView,...) in order to design Ad hoc analysis.
- f) DBMED should ensure a flexible evolution/scalability of the structure as it may be required in the future (e.g. adding master data, links, attributes, hierarchies, standardized automated upload processes modelled like a data vault). The web-based database should be a Multi-Layer-Architecture where the integration of the data should not be underestimated.
- g) DBMED must encompass a versioning system that allows the user to track any changes in a field, (i.e., how it evolved through time), keeping record of the previous values and the users who made the changes.
- h) From a geographical point of view, DBMED should be able to store GPS coordinates as one of the attributes (e.g. Power Plant coordinates; shape-files of Zones).
- i) From a temporal point of view DBMED should be able to support calendar information. Data should be stored in UTC.
- j) Data freezing is necessary for data integrity and for creating a common and consistent dataset for studies. Thus, freezing points of the different sections of DBMED shall be created. A freezing point is a snapshot of a data section taken, manually or automatically, at a certain point in time and is not affected by subsequent changes introduced by users.

3. Tenderer profile requirements

Med-TSO has decided to invite to the tender knowledgeable companies with:

- sound reference and experience in the development of tailor-made web-based databases;
- references in the Power & Energy Sectors.

The selection of the companies has been conducted by a dedicated Task Force composed of some Med-TSO members and has been approved by Med-TSO Executive Board.

The detailed tender timeline is provided in PART B Procedures.

A high-level timeline is available in the following GANTT:

Activity	Jun21	Jul21	Aug21	Sep21	Oct21	Sep22
Stage 1 - Expression of Interest						
Stage 2 - Technical Discussion						
Stage 3 - Submission of The Technical Proposals						
Evaluation Phase						
DBMED Evolution Implementation phase						

PART B Procedures and evaluation criteria

1. Tenderers

Considering the complexity and specificity of DBMED, together with the confidentiality of a huge part of the data, Med-TSO decided to organize the tendering phase into three main stages:

- 1) **Stage 1: Expression of interest:** in this phase, and after receiving the actual request for interest, the interested consulting Services/ companies willing to participate in the DBMED tender asked to sign an NDA (Annex 1), as a prerequisite step in order to be eligible to pass to stage 2.

- 2) **Stage 2 : Technical discussion phase :** interested prospects will be expected to have technical discussions with Med-TSO DBMED Task Force to support the finalization of DBMED’s technical specification.
 The companies will receive the detailed business requirements and have guided access to the actual version of DBMED.
 Clarification and discussion meetings could be held with all the companies; minutes of those eventual meetings will be distributed to all the companies that expressed their interest in stage 1.

- 3) **Stage 3: Evaluation phase:** In the last stage, responsive bidders will submit technical and financial proposals as requested to be subject to the evaluation. The technical proposal should include:
 - i) all the relevant references related to web-based databases. The Curriculum vitae of the key experts need to be shared as well,
 - ii) methodology and work plan for carrying out the assignment;
 - iii) description of the solution, especially database structure, user interface, quality checks approach, security solution.

2. Timetable for the call for tender process

Stage 1	
a) Invitation to the call	3 rd June 2021
b) Deadline for submitting interest to participate and the NDA signed (Folder A STAGE 1)	30 th June2021
Stage 2	
c) Technical Discussion phase	1 st July to 31 st July 2021

Stage 3	
d) Submission of the Technical and Economic Proposals (Folders B and C)	31 st August 2021
e) Evaluation Phase	+15 days
Signature of the contract	

3. Procedure for the Submission of Proposals

Stage 1

The tendering Service Provider shall submit in a folder labelled “[NAME OF THE TENDERER - FOLDER A - DBMED]” containing :

1. A letter of interest signed by the legal representative of the service provider showing its interest in participating in the DBMED tender.
2. NDA (provided in Annex 1) signed by the legal representative of the service Provider.
3. Administrative documentation –the following documents shall be included:
 - a. This request for offer, signed by the legal representative of the Service Provider, with a copy of its ID attached; the request can also be signed by a solicitor of the legal representative and, in this case, a certified copy of the attorney has to be attached;
 - b. A valid chamber of commerce Service Provider registration for the Service Provider.

The folder shall be sent by electronic mail to **tenders@med-tso.com**. This email shall have as object: **“Activity 1.4 DBMED - Stage 1”** and it shall contain a link to download the folders (Dropbox, WeTransfer or similar tools are accepted).

All the documents shall be submitted in English.

The deadline for the submission of the proposal is the **30th June 2021 at 12 a.m.** CET. The date of the email received will be valid.

Any requests for additional information should be made exclusively in writing by e-mail to tenders@med-tso.com by the **20th of June 2021 at 5 p.m.** CET and all requests will be answered no later than the **25th of June 2021**. The Answers will be addressed to all the invited service providers.

In the final stage the Service Providers who showed an interest in stage 1 will be asked to submit their Proposals in two folders, named:

1. “[NAME OF THE TENDERER_Folder B - DBMED] ”
2. “[NAME OF THE TENDERER_Folder C - DBMED]”

Financial and Technical offers shall be drawn in English.

The deadline for the submission of the proposal is **31 August 2021 at 12 a.m.** CET. The date of the email received will be valid.

Med-TSO reserves the right to verify self-attested titles, competencies and experiences and the faculty of this Administration to not proceed to the award shall not be affected.

Any requests for additional information should be made exclusively in writing by e-mail to tenders@med-tso.com by **31 July 2021 at 5 p.m.** and all requests will be answered no later than **06 August 2021**. The Answers will be addressed to all the participants. However, if there is a need to have other information, The Med-TSO Secretariat may contact the tenderer for this purpose during the evaluation process.

Folder B -

- Relevant references related to web-based databases; reference list focusing on previous experience in electricity system modelling, in web-based databases implementation and maintenance, past cooperation with TSOs, ENTSO-E or other companies of the electricity industry;
- Curriculum Vitae of the key experts;
- *Technical offer* – how the activity will be performed shall be described, as well as how the Service Provider will fulfill the requirements of this call, with specific mention of relevant experience and any other information required by the request for offer.

The Technical offer shall not include any economic information. **Any violation of this requirement will determine the exclusion of the Service Provider from the bidding procedure.**

The Technical offer shall be signed by the legal representative of the Service Provider, with a copy of its ID attached; the offer can also be signed by a solicitor of the legal representative and, in this case, a certified copy of the attorney has to be attached.

Folder C – *Economic offer* - the cost of the work including VAT, taxes, expenses, contributions and other due fiscal charges, according to the applicable law of the Service Provider, shall be indicated. The offer shall include details about working days of the different experts (if more than one) and the cost per day of each professional involved.

The Economic offer shall be signed by the legal representative of the Service Provider, with a copy of its ID attached; the offer can also be signed by a solicitor of the legal representative and, in this case, a certified copy of the attorney has to be attached.



Both the total price for the project and its breakup are expected. The total price shall be broken by sections and by the individual functionalities, such as, but not strictly limited to:

- Kernel of the application: DB engine with structural flexibility (Data Vaults or similar approach) and data versioning, user access control, backend and basic web-based GUI framework.
- Respective DBMED sections separately: Each section shall include the basic package (data structures, key functionality such as input/output procedures, GUI plugin) and optional functionalities separately. The final list of optional functionalities will be specified in the detailed business requirements.
 - Runtime and license costs (not including hosting and potential hardware costs, but including license costs, Service Level Agreement, ...)
 - Time & Material offer for any activities exceeding tender scope or any additional tasks coming
 - from any activities exceeding tender scope (e.g. maintenance¹)
 - from the requirements refinement/additional requirements implementation

All the folders shall be sent by electronic mail to **tenders@med-tso.com**. This email shall have as object: **“Activity 1.4 DBMED - Stage 3”** and it shall contain a link to download the folders (Dropbox, WeTransfer or similar tools are accepted).

4. Award Criteria

The offers will be evaluated in stage 3 according to the following scoring table:

EVALUATION ELEMENTS		MAXIMUM SCORE
1	REFERENCES AND key experts profile	25
2	TECHNICAL OFFER	45
3	ECONOMICAL OFFER	30
	TOTAL	100

¹ Maintenance for the first 24 months after the approval of the final deliverable should be included in the “Fixed price” economic offer.



5. Score assignment

The quality of technical tenders will be evaluated in accordance with the award criteria and the associated weighting as detailed in the evaluation grid below.

Criteria	Maximum Score	Threshold
Qualifications and competence of key personnel	5	3
- Knowledge of English is mandatory, French is a plus	3	
- Skills in communication, specific information provided by candidate	2	
References and Background	5	3
- Experience in working in a high-level Team in EU financed project	3	
- Knowledge and previous experiences in the Mediterranean Region will be considered as a plus	2	
Specific knowledge and experience	15	10
- Proven experience in the Power sector web-based databases	8	
- Proven experience in Market like web-based databases	7	
Quality of technical proposal, including detailed work program	45	33
- Architecture and infrastructure	7	
- Tools and licenses used in the solution	7	
- Database security controls	7	
- Solution flexibility and scalability	7	
- User interface concept (Usability)	7	
- Visualization & Reporting	5	
- Project Management	3	
- Offer improvement of the ToR	2	

- Only tenders scoring 49 points or more (of a maximum of 70) points against the reference & technical award criteria will have their financial proposal evaluated.
- Tenders scoring less than threshold for any award criteria will be deemed to be of insufficient quality and eliminated from further consideration.
- The contract will be awarded to the tenderer offering the best value for money, taking into account the awarding criteria listed above. No award criteria and sub-criteria other than those detailed above will be used to evaluate the tender.
- The tenderer obtaining the highest combined technical and economical score is invited to a negotiation and will receive a draft contract according to Italian law.



The formula for **Economic offer evaluation** is:

$$ES = 30 \times CP/EP$$

where ES is the Economic Score, CP is the value of the Cheapest Proposal and EP is the value of the Economic Proposal under consideration.

The tenderer obtaining the highest combined Technical and Economic score is invited to a negotiation.

6. General Conditions

The Tenderer must be aware that the activity is co-funded by the EC and subject to all EU standard procedures.

All the documents proposed by the Tenderer are subject to approval. The approval does not change the responsibility of the Tenderer on the final result. All the documents can be updated during the activity, whenever unpredictable facts arise. In all cases, major changes introduced by the Tenderer have to be notified to Med-TSO for approval. The final documentation has to be consistent with the activity, in terms of scope and time.

7. Confidential Information

Any non-public information of confidential or proprietary nature, whether of a commercial, financial or technical nature related to the object of this call, or all information otherwise exchanged between Med-TSO and the tenderer shall be deemed to be "Confidential Information".

"Confidential Information" shall not be used or exchanged for purposes other than in direct relation with the object of this call.

It is also considered the possibility that any Med-TSO Member could require a specific NDA to be signed by the tenderer.

8. Joint Submissions

Where the successful proposal is submitted jointly by more than one legal entity, one of the following arrangements will apply:

- The contract may be awarded by Med-TSO to the legal entity who acts as the agreed prime contractor. The prime contractor is responsible for the delivery of all services provided for under the terms of the contract and shall assume all the duties, responsibilities and costs associated with the position of prime contractor. Collateral warranties may be required in this case, in accordance with Med-TSO requirements.
- A grouping may be required to contract as a single entity with joint and several liability arranged to Med-TSO's satisfaction.

9. Disputes

All disputes arising from this tender, including those relating to its validity, interpretation and execution, shall be entrusted to a board of three arbitrators, of which two named, one by the Tenderer and one by Med-TSO, and the third one, having functions of President, by the arbitrators so named.



In case of failure to appoint the arbitrator of the party, or failure to agree on the appointment of the President, the appointment itself will be referred to the President of the Rome Court, on the request of the most diligent party.

The College shall judge by right with the application of the articles 806 and following of the Italian Code of Civil Procedure and shall have seat in Rome (Italy).

Annex 1 NON DISCLOSURE AGREEMENT

Whereas, Med-TSO, Mediterranean Transmission System Operators, fiscal code 97697840581, with registered office in Viale Egidio Galbani 70, 00156 Rome, Italy, and operational headquarters in Via della Marcigliana 911, 00138 Rome – hereinafter referred to as the “Association”, represented by the Secretary General, Mr. Angelo Ferrante;

WHEREAS,.....fiscal code/VAT:.....with registered office in – hereinafter referred to as the “Tenderer”, represented by, Legal Representative of the Tenderer;

WHEREAS, Med-TSO is committed to supply its Members with a web-based database (in the following “DBMED”) for the core technical activities of the Association. A first attempt of DBMED covering mainly a specific section to host grid models was created under the 1st Mediterranean Project MP1 (2015-2018). Being aware of the increasing needs of the association, Med-TSO intends to tender consulting services aiming to let DBMED evolve to become Med-TSO’s backbone for data sharing in all the technical activities of the Association by creating new sections and improving the existing ones.

The web-based database activities are under the contractual Task 1.4 of the New Mediterranean Project called TEASIMED (Towards an Efficient, Adequate, Sustainable and Interconnected

MEDiterranean power system), co-funded by the European Commission through the Grant Contract “EXTERNAL ACTIONS OF THE EUROPEAN UNION - ENI/2020/417-547”.

WHEREAS, Med-TSO is willing to supply further information related to DBMED to the Tenderer, but it should insure that such information should not be disclosed or used for purposes other than the evaluation of the Offer;

NOW THEREFORE,

the Parties agree as follows:

1. Med-TSO will communicate certain information to the extent reasonably necessary to allow the Tenderer to evaluate the opportunity to participate in the Tender.
2. This Agreement shall apply to all Confidential Information (as defined hereafter) supplied by Med-TSO or its Member to the Tenderer relating to the DBMED.



3. The information which shall be considered confidential and subject to this Agreement is any and all technical, business, financial, operational, administrative, performance, cost or economic information, data, documents, research developments, technology, know how and information about processes, strategies, plans, business models, computer programs, software, source code, systems, methodology, techniques, suppliers or personnel pertaining to Med-TSO or its Affiliates relating to the Project and disclosed to the tenderer in connection with the Project, whether orally or in writing, magnetic diskette, flash memory storage drive, CD, DVD, through an electronic data rooms or in any other forms whatsoever (whether in electronic form or non-electronic form), together with any analysis, compilation, forecast, study, memoranda, notes or other writing contains or otherwise reflects or is based on the information.

4. The Confidential Information shall not include information which:

- A. is in or comes into the public domain, provided that such information does not come into the public domain through any act or negligence of the Tenderer; or
- B. can be shown to have been in the Tenderer's possession prior to disclosure by Med-TSO; or
- C. is properly provided to the Tenderer by an independent third party under no obligation of confidentiality to Med-TSO; or
- D. is disclosed by Med-TSO on a non-confidential basis to third parties; or
- E. is independently generated by personnel of the Tenderer or an affiliated entity having no knowledge of the Confidential Information.

5. All rights, title and interest in or to the Confidential Information is at the date hereof and shall at all times remain exclusively in Med-TSO, with the understanding that neither party has any obligation to enter into any further agreements with the other related to this technology, and that the Tenderer shall not at any time claim any right, title, license under or interest in or to the Confidential Information in the UE or elsewhere for itself or on behalf of any other entity, except as anticipated herein.

6. The Tenderer shall keep the Confidential Information strictly secret and confidential, and shall not make any use thereof except for the purpose of the Tender, it being understood that this paragraph shall survive the term of this Agreement.

7. The Tenderer shall not disclose Confidential Information to any person other than the minimum number of responsible employees, who are directly engaged in consultation with respect to Confidential Information, and to whom it shall be essential to disclose the same, and shall take all reasonable steps to ensure that such employees whether during or after their employment with the Purchaser shall treat such information as confidential and keep it secret from other entities or persons.

8. Upon termination of business relations between the parties relating to this technology, the Tenderer shall return all written or other physical embodiments of Confidential Information to Med-TSO, together with all copies thereof.



9. This Agreement shall be binding on any affiliate, parent or subsidiary corporation of the Tenderer, as if a party to the Agreement.

10. This Agreement shall be construed and the relationship between the parties determined in accordance with the substantive laws of Italy. All disputes arising from this Agreement, including those relating to its validity, interpretation and execution, shall be entrusted to a board of three arbitrators, of which two named, one by the Tenderer and one by the Customer, and the third one, having functions of President, by the arbitrators so named.

In case of failure to appoint the arbitrator of the party, or failure to agree on the appointment of the President, the appointment itself will be referred to the President of the Rome Court, on the request of the most diligent party.

The College shall judge by right with the application of the articles 806 and following of the Italian Code of Civil Procedure and shall have seat in Rome (Italy).

Place and date.....

Med-TSO

The Company

The Secretary General

The Legal Representative