

OPERATION AGREEMENT IN THE TRANSMISSION SYSTEM

between

TRANSMISSION SYSTEM OPERATOR

TSO COMPANY

AND

(USER)

—/—/—

THIS OPERATION AGREEMENT (“The Agreement”) is connected today on date _____.20__ between:

1. **The TRANSMISSION SYSTEM OPERATOR**, (hereinafter TSO company), joint stock company, registered as legal entity with Tirana District Court Decision No. 31935, of date 14.07.2004, premises in Tirana , _____, Unique Identification Number (NIPT) K42101801N, represented by **Mr. _____**, **the Administrator of TSO company**,
And
2. **COMPANY _____**, a company established according to the legislation of the Republic of Albania, registered as a legal entity with Tirana District Court Decision No. _____, of date _____, premises in Tirana, Unique Identification Number (NIPT) _____, address: _____, represented by the Legal Representative Mr.Mrs. _____, (hereinafter **“The User”**)

Each of them referring to this agreement as the **“Party”** or together **“Parties”** according to the case.

Since:

- A. Based on the Connection Agreement between TSO and the Company _____, No. / _____ Prot.... , of date __/__/____, was given the permission for HPP/Load connection, with total installed capacity ___MW, at _____by the connection assets with the electricity transmission grid, according to the principal scheme of the connection approved together with the technical additional documentation;
- B. Implementing the provisions of the Transmission Grid Code the parties sign an agreement for the operation (short description of the user characteristics) with the transmission grid, according to the electrical principal approved scheme;

THE PARTIES AGREES as follows:

ARTICLE 1 – THE ANNEXES AND THE DEFINITIONS

1. All the provisions and Annexes constitute an integral part of this Contract.
2. The annexes shall mean :
 - a. Annex No.1: Operational parameters
 - b. Annex No.2: Authorized operating staff
 - c. Annex No.3: Restoration and protection plan
 - d. Annex No.4: Final technical documentation
 - e. Annex No.5: Monitoring questionnaire

In case of conflict, between the definitions made on the Annexes of this contract and the following provisions, the later shall prevail.

3. In this Agreement, (including its Annexes) except when the context requires otherwise, any used term and definition shall have the meaning with the one defined on Law no. 43/2015 “On Power Sector”, the Transmission Grid Code and the Connection Agreement.

Article 2 – Object

This Agreement aims to regulate the relation between TSO and the user of the grid regarding the complete obligatory operational actions that shall be performed by the user of the grid connected in the transmission system as result of this connection and in the function of performing secure and stable operation of the Electricity System.

Article 3 – Duration of the Agreement

1. This Agreement is signed for an indefinite duration, except of the cases of settling the agreement according to article 19.
2. In case the user aims to conclude this Agreement shall notify its purpose by informing TSO by a registered notification 3 (three) months in advance.

Article 5– TSO company Obligations

- a) TSO shall coordinate and operate Electricity Transmission System according to the definitions made on the Transmission Grid Code and this Agreement taking into consideration the respective planifications and obligations to the user.

Article 6 –Operation Conditions

1. The user shall implement and respect the operation conditions that define the joint operational actions performed in normal conditions of system operation and joint actions in not normal conditions if the system is in the following situations:
 - a) alarm,
 - b) emergency,
 - c) partial/full decrease
 - d) restoration;
2. The user shall respect and implement the communication procedure with TSO as described in this agreement and the Transmission Grid Code.
3. The user shall respect the limits and parameters of the operational security defined in this Agreement on Annex 1, regarding:
 - a) the management of voltage and reactive power
 - b) frequency management
 - c) management of short connection currents
 - d) power factor
 - e) earthing
 - f) automatic switch values from over/under frequencies

Article 7–Operation and Obligations of the User

1. The user shall benefit the transmission service from TSO company in conformity with the definitions of Law no.43/2015 “On Power Sector”, the Transmission Grid Code, Electricity Market Model and Electricity Market Rules.
2. The user shall operate its equipments in conformity with the technical specifications of the Transmission Grid Code and TSO requirements with due care for the operational security of the grid and other users.
3. In each case the user (Operational Center of the User) shall act according to TSO (National Dispatch Center) orders or guidelines and any dispute shall be settled according to the procedures provided on the by-laws in force after overcoming the emergency situation and normalization of the system situation.
4. The user shall keep the facility (its electricity generation/consumption unit) in the conditions for safe, stable, efficient and compliant operation in accordance with the connection agreement and the Transmission Grid Code throughout its lifetime.
5. TSO has the access right to the data and documentation of the user respecting their confidentiality and ensuring the not publication of the commercial information in conformity with the definitions made in the Transmission Grid Code for the Confidentiality.
6. OST has the right to perform monitorings (according to Annex 5), the necessary inspections and testings and require from the user to carry out the tests in conformity with the Transmission Grid Code.
7. The user cooperates and coordinates with TSO implementing the instructions and orders that are connected with the efficient and stable operation of the power system, operational and supply security in national level and in report with the neighbouring systems.
8. The user shall inform immediately TSO, regarding any operational disruption of his facilities or the inability to operate, which may influence in its compatibility with the requirements of the Transmission Grid Code.
9. The user that fails to implement any provision of the Transmission Grid Code, shall immediately inform TSO for the reasons of this failure.
4. . The user is responsible for the training and certification of his operators to perform operative actions as defined in the Transmission Grid Code and in this agreement. Its operational staff shall be able to perform any action required from the operators of the National Dispatch Center according to its instructions without jeopardizing the safety of the system, the grid, devices, the machineries or the life of the persons. Minimally the operational staff of the user shall be equipped with group III in the technical security qualification certificate, based on the technical security regulation (according to chapter I point 1-12, chapter II point 2-2).
10. The user shall operate its devices to inject/receive electricity in/from the Transmission Grid in conformity with the installed capacity declared in the connection point according to Annex 4 of this agreement.
11. The user shall create all the necessary facilities for TSO to perform the maintenance functions, improve and expand the transmission system, implementing TSO guidelines in conformity with the provisions of the Connection agreement.
12. The user shall not cause unjustified delays or prevent and limit TSO in performing the maintenance works which are necessary for the security and operation of the transmission system or are part of the development or investment plans in TSO assets.
13. The user shall make any effort to ensure the coordination of the maintenance and the switching programs relating to them so that the legitimate interests of all grid users are not violated.

Article 8–Exercising the Rights

1. The user agrees that TSO shall act implementing its obligations and in the function of public service including the de-energization of the user if other available measures result not effective according to the definitions of the Transmission Grid Code.
2. Ne çdo rast marrja e masave nga OST do të jete e pershkallezuar dhe proporcionale me situaten, duke informuar perdoruesin per çdo hap dhe pasoje, duke i dhene mundesi perdoruesit per te marre masat e nevojshme apo eliminuar shkeljet e mundshme dhe duke bere te gjitha perpjekjet e nevojshme per zgjidhje.
3. At any case TSO shall inform the user before de-energization, except of the emergency/overhauls cases when the notification is given after de-energization.

Article 9–Dispatch

1. TSO is responsible for the electricity dispatch and using the interconnection connections according to Law no.43/2015 “On Power Sector”, the Transmission Grid Code, Market rules and other regulations in force, approved by ERE guaranteeing the operational safety of the transmission grid.
2. The dispatch of the users installations is made according to the criteria defined in the Transmission Grid Code.
3. TSO shall undertake the measures to guarantee the operational safety of the power system and safety of electricity supply for the users of the grid, while the user implements the orders and requirements of the TSO regarding the taken measures.
4. During the implementation of the remedial measures or of a measure of a protection plan, the operational staff of the user shall execute without delay the orders and instructions issued by TSO to secure the operational security of the transmission system.
5. The user is responsible to perform the operational actions in coordination with the National Dispatch Center.

Article 10–The rights and obligations of the National Dispatch Center and the Operative Center of the User

1. The National Dispatch Center of TSO shall dispatch the 220, 110 kV sub/station that are in the ownership of the user connected in the transmission grid by instructing according to the need even the work regime in the user facilities in emergency cases.
2. Any maneuver by the operative staff of these Substations connected with the opening, the close, maneuver, earthing, operating the connections, busbar, switch, fuse etc, shall be performed only by the order of the National Dispatch Center according to the coordination procedure of the operational actions described in the Transmission Grid Code.
3. All actions connected with the objects of the users with connection point in the transmission grid shall be performed in coordination with the National Dispatch Center. The operational hierarchy for any order shall be: the National Dispatch Center-->Operative Center of the User --> the respective Substation.
4. For any disconnection, the Operative Center of the User is obliged to immediately inform the National Dispatch Center, where shall be reported:
 - a) the removed element from the protection action

- b) type of protection that has acted by disrupting the elements of the user or of the transmission grid.
 - c) localizer (distance)
 - d) the exact time of the protection action
 - e) the positions of the connection/transformer switches,
 - f) the positions of the working fuses /earthing.
 - g) the reason that caused the failure
 - h) other data depending on the type of the protection
5. After the elimination of the disruption situation, the user shall electronically send at OST within the day, detailed information on the disruption by reporting the reason, dynamics, the taken measures to eliminate the disruption.
 6. The National Dispatch Center of the TSO and the Operational Center of the User are obliged to have mutual information exchange regarding current, voltage, frequency, power parameters, including the situation of the elements in the substation and any other parameter that TSO accesses necessary for its functions, on real time according to the Transmission Grid Code.
 7. The Operational Center of the User accurately performs the action and operation of the device after being ensured that it has understood and repeated the operational order/action that shall be performed, the instructions and guidelines of the National Dispatch Center operator, rigorously implementing in conformity with the regulation of technical safety and utilisation of the equipments and the machineries.

Article 11– Operational actions coordination of the National Dispatch Center and the Operational Center of the User

1. The coordination of the operational actions between the parties is necessary to exchange information regarding the operational actions and/or the events in the power system that affect the operation of the:
 - a) Transmission system in case the operational actions and/or the event occur in the facility of the user;
 - b) The facility of the user in case the operational actions and/or the event happen in the transmission system.
2. The notifications of the National Dispatch Center of the TSO and the Operational Center of the User shall be as follows from the:
 - a) The National Dispatch Center of TSO, in case of an operational action or unplanned event in the transmission system may affect the performance of the user’s facility. The National Dispatch Center shall inform the Operational Center of the User if in the assessment of the National Dispatch Center the action has affected according to the definitions of this paragraph.
 - b) The Operational Center of the User in case of any operational event or unplanned event in the user’s facility may affect in the performance of the transmission system. The Operational Center of the User informs the National Dispatch Center of the TSO, which begins to undertake the improvement measures and notifies the other users of the transmission grid if in the assessment of the National Dispatch Center the action has influence according to the specifications of this paragraph.
3. The notification for the operational actions shall contain the purpose and sufficient purpose and details to describe the operational action.

4. It is required a notification of an operational action when/and the effects of this operational action are as follows:
 - a) The plants and/or the equipments are functioning out of their possibilities or may submit danger for the staff;
 - b) Disconnection of the plant and/or equipments, manual or authomatic ones;
 - c) The voltage levels are out of standards;
 - d) The frequency levels are out of standards;
 - e) Load fluctuations
 - f) Activating any alarm or indicator of a not normal operational condition;
 - g) If from experience it is seen or anticipated to be in a statute of failure, defects in the monitoring, control, communication or metering equipments, increase of the risks of the relay protection actions; non operation of the commuting equipments; risk of fire, etc.
5. Requests for written reporting of the events, which are primarily reported verbally or by e-mail, between the National Dispatch Center and the Operational Center of the User are made in cases when:
 - a) The event may be followed by an incident, when the impact of the event on the transmission system or on the user's system is unintended.
 - b) Events in the facility of the network user are reported on the National Dispatch Center and to other affected users.
 - c) Events that occur in the transmission system are reported by the National Dispatch Center to other affected users, connected in the transmission grid.
6. Incident events that shall be reported, the reporting method that shall be followed and the information that shall be given, are detailed as follows:
 - a) Fluctuations of the operational parameters (according to Annex 1);
 - b) Hazardous defects in the main equipments like the: connections, transformers, commuting equipments, busbars;
 - c) Events with fire incidents;
 - d) Violation of the safety standards and technic safety regulations etc.
7. All the events that are accompanied with incidents in the transmission system, and/or system/facility of the user are reported. The operational report is always performed by the operational staff of the National Dispatch Center and the operational staff of the user at the time of the event. These reports are documented in the operational notice books.
8. The incident event is reported by the user, at TSO according to the deadlines in the Transmission Grid Code with a detailed information for the reasons of the incident the event and the consequences after the event.
9. If the event is accompanied with accidents the report of the accident is made according to the legislation in force. This report is made in both cases:
 - a) when the accident is fatal;
 - b) when the accident is not fatal but with serious damages.
 The report is send even to the inspectorate and the respective bodies in conformity with the legislation in force.
10. The plannification of the interruptions in the Transmission System shall be according to the provisions of the Transmission Grid Code.
11. The user in case of partial/complete fall of the system, shall implement of the operational orders of the National Dispatch Center of TSO in conformity with the Restructuring Plan of the TSO.

12. The re-synchronisation of the user shall be only after the order issued by the operator of the National Dispatch Center for the synchronisation.

Article 12– The organizational chart of the National Dispatch Center and the operative staff

1. The user of the transmission system within his organizational chart clearly defines the organization and the composition of the structure that shall play the role of the Operational Center which it communicates to the TSO. According to the case the user assigns this role:
 - a. The staff of the substation;
 - b. The Staff of the operational service in the installations and facilities of the user.
2. Before the energization of the connection according to the definitions of the connection agreement, the user delivers a copy of the certification documentation to the operational staff of the user from the producer and/or the assembler of the machineries and equipments (Substation, HPP) or any other company with the training and certification authority that proves the ability of the operational staff of the user to operate in the system of the user. The user shall guarantee and ensure that his operational staff is subject of the annual testing regarding the technical safety rules and submits its results to the TSO.
3. The user and TSO exchange information regarding the authorized operational staff, according to Annex 2 and update it according to the need.
4. Except of the provisions of point 2, the staff of the Operational Center of the User shall participate in periodic instruction sessions organized by the National Dispatch Center on the operation standards and the perform of operational actions as user of the transmission grid which shall be organized according to the annual programs approved by TSO.

Article 13– The management and operation of the substation

1. The substation shall be managed and operated by the user, with its appropriate, qualified staff according to article 12 of the respective legislation.
2. The user shall begin the activity of the substation service, independently with its own staff after successfully completing the testing, commissioning and energization procedures according to the connection and operation agreement.

Article 14– Protection and reset plan

1. In case of full/partial failure of the system, TSO implements the respective procedures of the operational direction that bring frequency, voltage and other operational parameters within the permitted limits of the operational security according to the “Protection and restructuring plan” which is reviewed and updated by TSO in conformity with the Transmission Grid Code.
2. The user takes the measures for the implementation of the “Protection and restructuring plan” according to the definitions of the Transmission Grid Code, the Operation Agreement and TSO guidelines.
3. According to the need the user shall be able to implement the respective procedures and comply with the operational orders for the manual limitations/reductions of the load by responding to the emergencies on real time.
4. The user shall respect TSO company guidelines for the permitted values of the connection overload for winter/summer season and the working time in the overload for each element

and respects and implements TSO orders for any amendment of the regime and/or the schemes that require actions with its connection assets or its object.

5. The user in case of full/partial failure of the system and the loss of communication with the National Dispatch Center, self-acts by shutting down the transformer switches of the power and ensures the personal needs from diesel generators. With the reset of communication with the National Dispatch Center follows the guidelines for immediate operational actions.
6. The user shall undertake the measure to protect and submit the documentation and the necessary data to fulfill the protection and reset plan by collecting dynamic data for their loads/generation, in the form defined by TSO by submitting them according to the deadlines or TSO request.
7. The protection and reset plan part of this agreement according to Annex 3 is drafted and updated by TSO and is given to the users for recognition and implementation.

Article 15–Planning the interruptions and de-energization

1. TSO and the user shall, on that measure practically possible and reasonable, in conformity with the Transmission Grid Code, coordinate the planned interruptions in the grid and the connection assets.
2. TSO and the user shall make the reasonable attempts to ensure that such interruptions shall be on minimum duration and shall cause the minimum concerns for the third parties and shall not damage the safe and reliable operation of the system.
3. Despite of the annual plannifications of the interruptions, TSO may perform obligatory scheduled interruptions and the de-energization of the connection point of the user, when this is required to perform its functions for improving the operational conditions for the grid users, to notify this last one mentioned 7 (seven) days prior to perform the obligatory scheduled interruptions, according to the case.
4. TSO notification shall include:
 - a) the notification and the reasoning
 - b) the updated interruption plan
 - c) obligatory scheduled interruption specifying the expected number of the interruptions, their duration in hour and the dates for each connection point where it is performed the interruption.
5. If the user prevents TSO in performing the obligatory scheduled interruptions, he is responsible for all the consequences and costs regarding the delays that may be caused to TSO or to third parties with whom TSO has contractual agreements.
6. TSO shall perform de-energization right of the user at any time and on the terms and measure that TSO accesses in proportion with the situation, in conformity with the Transmission Grid Code or in any of the following circumstances:
 - a) in the conditions of a Force Majeure, when considered that the circumstances require such a measure; and / or
 - b) to realize the projects for strengthening the transmission grid; and/or
 - c) to realize new connections of the third parties in the transmission grid; and/or
 - d) to find and eliminate the defect and/or maintenance, and/or repairing and/or partial/full substitution and/or modification and/or increasing and/or testing a part of the grid which are necessary to ensure normal functioning and strengthen the operational safety of the grid ; and /or
 - e) when the user fails to fulfill the obligations based on the Transmission Grid Code and according to TSO assessment this has a damaging material effect on the grid; and/or

- f) in the function of article 8 Exercising the Rights;
- 7. TSO shall re-energize as soon as possible the user when there is evidence that the circumstances leading to de-energization do not exist any more with or without documented guarantee that this circumstances shall not be repeated;
- 8. The re-energization shall be performed with the coordination of both parties ensuring the safety of the system operation avoiding the disturbing effects for the third parties.

Article 16 – Issuing the information

- 1. The operation agreement enters into force after the user has delivered at TSO the technical documentation, according to the installations in the object, listed on Annex 4.
- 2. The user is obliged to deliver complete control and testing protocols of the equipments, performed in the presence of TSO specialists and signed by them and to deliver at TSO:
 - a) A copy of the acceptance protocols (FAT&SAT) of the generation units, the speed regulator, the excitement system, power transformers.
 - b) For study purposes, the dynamic corresponding models according to IEEE standards for the generators, the turbine, the speed regulator, the excitement system, the system stabilizer (PSS), the voltage regulator of the power transformers.

Article 17– Exchange of information in real time

- 1. The generator user connected in the transmission grid, shall ensure the following information in real time:
 - a) the position of the commuting elements in the connection point, or other interaction point agreed with TSO;
 - b) active, reactive power, the voltage, current in the connection point, or in another interaction point agreed with the TSO;
 - c) active, reactive power of the grid, in case the object (generator) has other consumption except the one for personal needs.
- 2. The customer user directly connected with the transmission grid, shall communicate on real time with TSO the following information:
 - a) active, reactive power, the voltage, current in the interconnection point; and
 - b) the minimum and maximum of the power that may be limited.
- 3. The above information and any other parameter required by TSO shall be ensured by the connection with the SCADA system.

Article 18 – Force Majeure

- 1. Except the cases expressly provided in this Agreement, any Party shall be deemed in violating the terms of this Agreement if he evidences that the failure to impement their obligations is caused by a Force Majeure event. For the effect of this agreement a Force Majeure "is an event or natural/social act occurred in the country, such as earthquakes, cyclones, lightening, floods, volcanic eruptions, fires, wars, armed conflicts , insurrections , terroristic acts, that prevent the licensee in fulfilling his obligation according to the license, as well as other events, that are beyond the possible control of the licensee and doesn't occur because of his fault and the licensee is not able to eliminate them,even though he has executed properly his skills, efforts and care.

2. In case each party is unable to meet any or all the obligations according to this agreement because of a Force Majeure event, this agreement shall be in force for:
 - a) the respective obligations of the party that fails to meet them shall be suspended for a period equal with the event or the circumstance of the Force Majeure.
 - b) the obligations of the other Party due to the non-compliance party according to this agreement that the other party is unable to meet them directly as the result of suspending the obligations of the non-compliance party, shall be suspended for a period equal with the event or the circumstances of the Force Majeure accepting that:
 - i. the suspension for the fulfillment is of a non-greater purpose and non-greater duration than the one required for the Force Majeure;
 - ii. any obligation of each party established before the Force Majeure by causing the suspension of the fulfillment shall not be skipped because of the Force Majeure.
 - iii. the non-compliance party shall immediately inform the other party for the event or the circumstance of the Force Majeure, including the expected nature and duration, and continuous to regularly report regarding them during the Force Majeure period;
 - iv. the non-compliance party uses all the reasonable opportunities to prevent, avoid or mitigate the consequences of the Force Majeure; and
 - v. as soon as possible after showing the Force Majeure event or circumstance the Parties shall discuss to continue their actions as long possible in conformity with this agreement and the Transmission Grid Code.

Article 19 –Non-compliance Cases

1. If it is ascertained that the user breaches/or non compliance with any of the provisions of the Agreement, Transmission Grid Code or the legal framework then TSO in conformity with its powers shall inform the user as soon as possible by instructing him for their elimination defining the deadlines for this purpose.
2. Following TSO notification and implementing the instructions for eliminating the breach/non compliance by the user this latter shall inform TSO within the deadlines defined in the instructions given by it, or within 5 working days if TSO has not specified other deadline, for the steps undertaken to eliminate the violation or its final elimination or the inability to eliminate the violation.
3. If the user does not act in conformity with the instructions of TSO, the security standards, the Transmission Grid Code and the Connection and Operation Agreement, TSO shall issue a second written warning and shall proceed with the de-energization after 7 (seven) days from the notification, on the condition that on the expiry date of the notice, the user has not acted in conformity with TSO instructions.
4. Except as provided above, when the user does not fulfill its obligations according to the conditions of this agreement and TSO accesses necessary the emergent exercise of its functions, has the right to immediately de-energize the substation and inform by writing the user for the reasons of this de-energization. The user in this case shall respond for the damages caused by TSO and shall take the measures to correct the situation and/or fulfill its obligations, as soon as possible. The de-energization shall continue until the user correct the situation and/or fulfill its obligations.

Article 20 – Confidentiality

1. Each of the Parties undertakes to preserve the confidentiality of the content of this agreement and its conditions, as well as any other information and document that the parties have exchanged or are informed during the negotiations of this agreement, except of the cases where the public disclosure of the above mentioned is required by the Albanian legislation.
2. The obligation to preserve the confidentiality of the information received as above for each of the parties in this agreement continues even after its settling.

Article 21 – Notifications

1. Except when provided otherwise on other articles of this agreement, any communication shall be in the written form and shall be notified with the receipt notification, on the addresses defined as follows:

For TSO company:

Address:	TSO company.
Postal code:	Autostrada Tirane-Durres, Km 9, Yrshek, Kashar, Tirane, Shqiperi
Phone number:	+355 4 2225581
Email address:	info@ost.al
To the attention of:	TSO company Administrator

For the User:

Address:	
Postal Code:	
Phone Number:	
Email address:	
To the attention of:	the Legal Representative of the User

Or on the address and/or fax number that is communicated to the parties according to the method defined above.

2. Any communication in the following addresses and carried out according to the manner set above is valid and obligatory for the parties. The communications are considered valid in the moment of receiving the notification from the recipient according to the method defined above.

Article 22 – Amendments

1. Any amendment of this Agreement is approved with ERE Board Decision.

Article 23 –Separability

1. Any article, provision, session, paragraph or subdivision of this agreement which is or will be declared invalid or ineffective, shall be removed from the agreement and shall not be implemented and shall in any way affect in the validity of the other provisions of this agreement, as far as permitted by the legal provisions.

Article 24 – Applicable Law and Settling the Disputes

1. This agreement is drafted in conformity with the Albanian legislation and shall be implemented and interpreted in conformity with it.
2. All the disagreements that shall be raised as consequence of the interpretation and implementation of this Agreement, when they have to do with the interpretation of the Transmission Grid Code provisions.

Article 25– Language

1. Except when provided otherwise in this agreement, all the notifications, or other documents that one party gives to the other according to this agreement, shall be on the Albanian language.
2. This agreement is drafted in 4 (four) copies, on the Albanian language, where three copies are for TSO company and one for the user.

TSO company

From: Mr.

Administrator of TSO company

User

From: Mr.

Legal representative of the User

ANNEX 1 – OPERATIONAL PARAMETERS

1. The voltage permitted nominal levels, the minimal and maximal ones for the normal working regime of the Transmission System grid and after a convergence listed in the convergence list in the safety analysis of the Transmission System.

Nominal voltage of the Grid (kV)	Maximum permitted level , kV (p.u)	Minimum permitted level, kV (p.u)
220 kV	245 kV (1.118)	198 kV (0.9)
150 kV	168 kV (1.118)	135 kV (0.9)
110 kV	123 kV (1.118)	99 kV (0.9)

2. The permitted levels of the voltage in amplitude and on the phase are:
 - a) for the grids with nominal voltage 400 kV and 220 kV: 2% of the nominal voltage and the angle 120°;
 - b) for the grids in nominal voltage 150 kV and 110 kV: 3% of the nominal voltage and angle 120°.
3. For the nominal voltages of the 110 kV – 400 kV Transmission System grid, the total harmonious deformation shall be up to 2%
4. The minimum permitted factor of the power for the users (load) is 0.9 ($\cos\phi = 0.9$)
5. The minimum critical time of switchning the defect (the critical time of cleaning the defect in the power system)

Voltage level of the grid, kV	Relay protection action time + the power off time
220 kV	110 msec
150 kV, 110 kV	120 msec

6. The earthing situation and the size of the earthing rezistence (it is submitted according to the project). The generating unit shall have the conductivity of the stator connected in the stand and be ready for earthing. The connection factor with the earth shall be ≤ 1.4 . The generators shall implement without delay the order issued by TSO for the earthing status of star stator in the respective generation unit, for the time this status shall be changed.
7. The users (generating units) shall be able to supply the nominal generation of the active power with a value of the active power from 0.85 inductive to 0.95 capacitive.
 1. Short Connection Coefficient of the generating units shall be ≥ 0.5
 2. The possibility to switch/switch off the Automatic Voltage Regulator shall be from 2 up to 12%. The switch shall be defined by the TSO (this is completed according to the case)
 3. The current limits shall be in conformity with the thermal limit including the permitted transitory overload.

4. The generator users shall stay connected with the grid at least within frequency and time ranges defined as follows:
 - a) without time frame in 49.0 Hz-51.0Hz frequency;
 - b) not less than 30 minutes 7.5Hz- 48.5Hz frequency;
 - c) for the frequency from 48.5 – 49 Hz they shall stay connected with the grid but not less than the 47.5 Hz – 48.5 Hz period;
 - d) 30 minutes for 51.0Hz-51.5Hz frequency
5. The user (generating unit) shall remain synchronized in the power system during the change of the voltage level in the connection point in the system from
 - a) 0.85 p.u-0.90 p.u for 60 minutes
 - b) and for voltage levels from 1.118 p.u -1.15 p.u for at least 20 minutes.
6. The customer users shall not be disconnected from the grid because of a disturbance within the voltage limits as follows:
 - c) without time limitation for 0.9 pu-1.05pu voltage;
 - d) according to the defined deadline in cooperation with the neighbouring TSOs for 1.05 pu – 1.0875 pu voltage,
 - e) for 60 minutes for voltage from 1.0875 pu to 1.10 pu
7. The users (generating units) shall ensure the increase/decrease of the generation not less than 1.5% of the active nominal /per minute power, when the generation unit is in normal conditions of operation.

ANNEX 2 – AUTHORIZED OPERATIONAL STAFF

a) For the User (Generator /Customer) the contact persons are:

No	Name, Last Name	E-mail address	Phone	Certified by:	Technical Safety Category

b) For TSO company the contact persons are:

No	Name, Last Name	E-mail address	Phone	Possition

The list is updated in case of any amendment and is confirmed by exchanging it at the beginning of each year before January 15, for the current year.

ANNEX 3– PROTECTION AND RESTORATION PLAN

ANNEX 4–FINAL TECHNICAL DOCUMENTATION

- a) Main scheme of the raised Substation in _____ ,
- b) Main scheme of relay protection of the trains and the busbars in HV
- c) Main scheme of the metering on the side of the HV of the transformer/raised transformers
- d) Plan of the raised Substation
- e) The track and plan of the connection
- f) Monitoring control diagram
- g) SCADA system and telecommunication diagram
- h) Technical specifications of the main equipments
- i) Dynamic models of the generating units
- j) Final Project Implementation
- k) Detailed graph of the works

ANNEX 5—MONITORING QUESTIONNAIRE