



# Pakistan Water and Power Development Authority

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526-Wapda House, Lahore.

Letter No.GM(C&M)W/DE/G-22/579-85

date: 25-07-2025.

1. General Manager (Central), WAPDA, Mughalpura, Lahore.
2. General Manager (Technical Services), WAPDA, Lahore.
3. Advisor (HRM), WAPDA, Wapda House, Lahore.
4. Chief Engineer (HEPO), WAPDA, Sunny View, Lahore.
5. Chief Engineer (Hydel Development), WAPDA, Wapda House, Lahore.
6. SE (S&H), WAPDA, Tarbela Dam Project, Tarbela.

Subject: **JOINT MASTER PLAN FOR DEVELOPMENT OF WATER AND ENERGY POTENTIAL OF PAKISTAN**

Ref: GM(C&M)W, O/o No.GM(C&M)/DP-36/245 dated 03.03.2025 (copy enclosed)

Reference to the above office order, it is apprised that a committee was constituted for working with M/s RusHydro Group on proposed Master Plan (**Annex-I**) for Development of Water and Energy Potential of Pakistan.

In this regard, it is requested to prepare / collect data of current situation of Water and Energy Potential of Pakistan which can be discussed during forthcoming meeting, please.

DAI As Above.

  
Chief Engineer (Coord.)  
For General Manager (C&M) Water

Copy to:

- APS to Member (Water), WAPDA, Wapda House, Lahore.



**PAKISTAN  
WATER AND POWER DEVELOPMENT AUTHORITY**

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General Manager (C&M) Water  
(Chief Engineer Coordination)  
526-Wapda House Lahore

No.GM(C&M)/DP-36/245

Date: 03.03.2025

**Office Order**

Subject: **Constitution of Working Group for M/s RUSHydro Group's Master Plan for Development of Water and Energy Potential of Pakistan**

A committee is hereby constituted for working with M/s RUSHydro Group on proposed Master Plan for development of water and energy potential of Pakistan;

- |                         |                                    |
|-------------------------|------------------------------------|
| 1. Mr. M. Azam Joya     | - General Manager (C&M)            |
| 2. Mr. Mujahid Tanvir   | - General Manager (Central)        |
| 3. Mr. Hammad Ahmed     | - General Manager (Tech. Services) |
| 4. Mr. Shahid Hamid     | - Advisor (HRM)                    |
| 5. Mr. Kashif ur Rahman | - Chief Engineering (HEPO)         |
| 6. Mr. Arshad Malik     | - Chief Engineer (Hyd. Dev.)       |
| 7. Mr. Syed Ali Haider  | - SE (S&H), Tarbela Dam            |

**Terms of Reference:**

- To analyze current situation, perspective development of water and energy potential of Pakistan as per M/s RUSHydro Group's Master Plan.
- Preparation of final report with M/s RUSHydro Group

This is issued with the approval of Chairman WAPDA.

Chief Engineer (Coord)  
for General Manager(C&M) Water

C.C:

1. PSO to Chairman, Wapda House, Lahore
2. Member (Water), Wapda House, Lahore
3. Members of the committee
4. M/s RUSHydro via email

**RusHydro Group's proposal (Master Plan) for the development of water and energy potential of  
the Islamic Republic of Pakistan**

No	Stage	Work content	Responsible party	Expiration date
<i><b>Preparation stage</b></i>				
	<i>Establishing contacts with WAPDA representatives</i>	<i>Setting up a working group of representatives (technical specialists) of PJSC RusHydro (JSC Lenhydroproject, JSC Institute Hydropoject), WAPDA and other competent ministries and organizations of Pakistan to implement the following activities (hereinafter – Working group)</i>		
<b>1. Analysis of the current situation</b>				
1.1.	Systematization of problems in the water and hydropower sectors	<ol style="list-style-type: none"> <li>1. Collecting and providing to RusHydro with information on the structure of Pakistan's water sector (including hydropower sector)</li> <li>2. Familiarization with the legal and regulatory framework of the water and hydropower sector</li> <li>3. Holding a working meeting via videoconference</li> <li>4. Preparation of primary requests taking into account the identified water sector management structure (based on the results of items 1-3)</li> <li>5. Processing of the received information</li> </ol>	WAPDA RusHydro Working group Working group RusHydro	60 days from the start of work
1.2.	Analysis of water distribution of surface and groundwater resources	<ol style="list-style-type: none"> <li>1. Preparation of reports on surface water resources and groundwater, based on RusHydro's requests (schemes of integrated use of water bodies and hydropower facilities, if any)</li> <li>2. Processing of the information received</li> </ol>	WAPDA RusHydro	90 days from the start of work
1.3.	Summarizing data on surface and groundwater quality	<ol style="list-style-type: none"> <li>1. Preparation of responses to inquiries on water quality</li> <li>2. Obtaining information, processing information</li> <li>3. Mapping of the obtained information on water quality</li> <li>4. Holding a working meeting via videoconference</li> </ol>	WAPDA RusHydro RusHydro Working group	130 days from the start of work



No	Stage	Work content	Responsible party	Expiration date
1.4.	Territorial distribution of the existing demand for water resources in the municipal sector, industry and agriculture. Preparation of digital map	<ol style="list-style-type: none"> <li>Preparation of statistical information on water resources consumption in communal sector, industry and agriculture by settlements (from state statistical bodies)</li> <li>Digital map formation</li> </ol>	WAPDA	190 days from the start of work
1.5.	Analysis of existing reserves and deficits of water resources sources in Pakistan	<ol style="list-style-type: none"> <li>Summarizing data on stages 1.2., 1.3. and 1.4. and forming the table of reserves and deficits of water resources by sources, regions</li> <li>Submission of the progress report</li> <li>Holding a personal working meeting with representatives of the Working group</li> </ol>	RusHydro	220 days from the start of work
1.6.	Assessment of current demand and availability of hydropower resources	<ol style="list-style-type: none"> <li>Preparation of statistical information on assessment of the current state in hydropower sector</li> <li>Report formation</li> </ol>	Working group	190 days from the start of work
1.7.	Proposals to optimize the use of hydropower resources	<ol style="list-style-type: none"> <li>Preparation of proposals for optimization</li> <li>Holding a working meeting via videoconference</li> </ol>	RusHydro	190 days from the start of work
		<b>2. Perspective development</b>		
2.1.	Calculation of prospective demand for water resources in the municipal sector, industry and agriculture	<ol style="list-style-type: none"> <li>discussion of the principles of calculating the prospective needs of the public utilities sector, industry and agriculture of the members by the working group</li> <li>Exchange of views and harmonization of prospective water consumption norms</li> <li>Obtaining data on population growth prospects by settlements, industrial and agricultural development by regions and sectors</li> <li>Calculation of prospective water consumption and water disposal</li> <li>Preparation of variations of prospective water consumption in Pakistan</li> </ol>	Working group	230 days from the start of work

Nº	Stage	Work content	Responsible party	Expiration date
		6. Submission and approval of the Report for this stage	Working group	
2.2.	Prospective analysis of reserves and deficits of water resources sources in Pakistan	1. Prospective analysis of reserves and deficits of water resources sources in Pakistan	Working group	255 days from the start of work
2.3.	Development of measures to attract additional sources of water resources	1. Development of proposals on redistribution and attraction of additional water resources 2. Formation of a table of activities 3. Development of proposals for reuse of treated wastewater	RusHydro RusHydro RusHydro	285 days from the start of work
2.4.	Development of measures to achieve normative indicators of water quality and water disinfection	1. Approval of drinking and technical water quality standards 2. Selection of the best available technologies for drinking water treatment taking into account specific socio-economic and natural-climatic conditions in Pakistan	Working group	315 days from the start of work
2.5.	Development of measures to increase the coverage of the population with centralized wastewater disposal systems	1. Development of measures for prospective wastewater disposal systems 2. Selection of the best available technologies for wastewater treatment taking into account specific socio-economic and natural-climatic conditions of Pakistan	RusHydro Working group	315 days from the start of work
2.6.	Proposals for hydropower sector development taking into account optimization (with selection of priority facilities)	1. Development of proposals for the location of priority hydropower facilities based on existing and prospective development schemes 2. Holding a working meeting via videoconference	RusHydro Working group	285 days from the start of work
		3. Preparation of the Final Report		360 days from the start of work