Subject: MINUTES OF THE PRE-PROPOSAL MEETING DATED 30-06-2025, UPDATING OF EXISTING TNO STUDY UNDER GROUND WATER REGULATORY FRAMEWORK (SIFC).

The subject meeting was held in the office of Executive Engineer, Ground Water and Climate Change Irrigation Division, Peshawar on 30-06-2025 at 02:00 PM under the Chairmanship of Executive Engineer, Ground Water and Climate Change Irrigation Division, Peshawar. List of participants attached.

After recitation from the Holy Quran, the chair welcomed all participants and further discussion commenced. The consultant's issues/comments/suggestions were discussed and decided as under.

S#	Issue / Comments / Suggestions	Decision / Reply
A)	**Rehman Habib Consultants Pvt. Ltd.**	
1.	**Clarification on Project Duration:** The RFP contains conflicting information regarding the project duration. In some sections, the study period is mentioned as 24 months, while in others, it is indicated as 18 months. We request clarification on the correct and final duration of the study.	It is clarified that the **correct and final duration of the study is 18 months**. The mention of 24 months in the RFP is a **typographical error** and may kindly be disregarded.
2.	**Clarification on Hydrogeologist Position:** Under the activity "Hydrogeology," two separate positions for Hydrogeologists have been proposed - one for 18 months and another for 12 months. Kindly confirm whether both these positions are required simultaneously or if this is a duplication or an alternative arrangement.	Both Hydrogeologist positions are **required and not duplicate**. The first position (18 months) is for the **lead hydrogeologist**, while the second (12 months) is for **field support**. Their durations reflect the nature and scope of their respective assignments.
3.	**Master Degree in Hydro-geology** We would like to clarify that while the RFP specifies a Master's degree in Hydrogeology, such a specific degree is rarely offered as a standalone program in Pakistan. Instead, professionals typically acquire relevant knowledge through Master's degrees in related disciplines that include substantial coursework in hydrogeology. We therefore kindly request that candidates holding relevant Master's degrees with demonstrated expertise in hydrogeology be considered eligible for this position.	This criterion has been approved from the competent forum and cannot be altered.
4.	**Request for Extension of Submission Deadline:**	The proposal submission deadline has already been extended once through a

	Given the complexity of the assignment, and to ensure submission of a comprehensive and competitive proposal, we respectfully request an extension of at least two (02) weeks beyond the current submission deadline.	corrigendum, from **27-06-2025 to 07-07-2025**. In light of this prior extension and to maintain the overall project timeline, **no further extension can be granted.**
B)	**Techno Consult International (Pvt) Ltd.**	
1.	The executing agency may provide the approximate number of open wells which need to be surveyed, in order to work out the cost and time in evolved in this activity. There is no provision in the man-month schedule for the data collector (Field staff).	The Terms of Reference (TOR) already include provisions for field inspectors and surveyors (with the number and man-months specified in Section 05 of the RFP, Page 59), who will be responsible for collecting all relevant field data, including the open well inventory, natural springs database, and tube well inventory. Consultants are expected to effectively deploy the designated field staff for these activities as outlined in the TOR.
2.	No such provision of flow measurement expert is there in the man-month schedule. Please include such position to perform the task properly.	The Terms of Reference (TOR) already include provisions for field inspectors and surveyors (with the number and man-months specified in Section 05 of the RFP, Page 59), who will be responsible for collecting all relevant field data, including the open well inventory, natural springs database, and tube well inventory. Consultants are expected to effectively deploy the designated field staff for these activities as outlined in the TOR.
3.	Approximate number of tube wells to be surveyed for tube well data collection maybe informed for and provision for data collectors /numerators may be made	The Terms of Reference (TOR) already include provisions for field inspectors and surveyors (with the number and man-months specified in Section 05 of the RFP, Page 59), who will be responsible for collecting all relevant field data, including the open well inventory, natural springs database, and tube well inventory. Consultants are expected to effectively deploy the designated field staff for these activities as outlined in the TOR.
4.	The hydrogeologist position appears twice in the table the Man Months of 18 and 12. Could you provide us with the correct picture, whether it is intentionally mentioned two positions of a typo mistake? If one position, please also provide the correct man- months for this position	Both Hydrogeologist positions are **required and not duplicate**. The first position (18 months) is for the **lead hydrogeologist**, while the second (12 months) is for **field support**. Their durations reflect the nature and scope of their respective assignments.
5.	The completion time for the projects is estimated at 24 months, while pages 59 to 61 showman-months and office	It is clarified that the **correct and final duration of the study is 18 months**. The mention of 24 months in the RFP is a

	expenses for 18 months. Could you please elaborate on this because it will impact our technical and financial proposals?	**typographical error** and may kindly be disregarded.
6.	The weight age formula for technical and financialproposalsis70:30. it is suggested to adjust this to80:20 to achieve high-quality results for the Technical proposals followed by project implementation.	The weight age formula of 70:30 for technical and financial proposals has been approved by the competent forum and is in accordance with KPPRA procurement rules. Therefore, this criterion is fixed and cannot be altered
7.	Geophysical survey (Electrical resistivity survey At least 30VES ranging in depth from 400-500m will be required of ill in the data gap in the previous report. Page61 All settle and merged districts1000Nos --- It has been mentioned in the TOR that "AT LEAST 350 VERTICAL ELECTRICAL SOUNDING(VES). The Column of quantity in the Direct Cost sheet is empty. Please clarify whether only 350 VES points are to be carried out from the total of 1000 mentioned points. And /OR Instead of using the word AT LEAST this number of ERS may be fixed for the purpose of costing and the same may be entered in the Direct Cost sheet.	As mentioned in the RFP, **350 VES points ranging in depth from 400 to 500 meters** are required specifically to fill the data gaps identified in the previous report. The **remaining VES points (out of the total 1000)** will be of **less than 400 meters depth**, primarily covering shallow investigations across the settled and merged districts. The phrase "at least" is intended to convey flexibility based on field conditions; however, **for the purpose of costing**, consultants may consider the **total of 1000 VES points** as the basis for financial proposal, with **350 VES at 400–500 m depth** and **650 VES at shallower depths**.
8.	In the key position table 8 no of staff are given while on page 51 qualification and experience of only 4 no's staff are required. Please clarify which of the key staff positions should be considered for proposal submission. As per our understanding the following positions are in the Key Positions: Project Manager/Team Leader Hydrogeologist Geophysicist Survey/GIS Expert Please confirm.	It is clarified that the following positions are to be considered as **Key Positions** for the purpose of in the table are **supporting staff**, and their deployment should be proposed as per the consultant's methodology and work plan, in line with the Terms of proposal submission, qualification evaluation, and costing: • **Project Manager / Team Leader** • **Hydrogeologist** • **Geophysicist** • **Survey/GIS Expert** The **details of these four key positions** (qualification and experience) are already provided on **Page 51 of the RFP**. These positions should be used for both **technical proposal preparation** and for inclusion in the **Direct Cost Sheet**.

		The remaining positions mentioned Reference.
9.	Project Manager/Team Leader– It is written that 30 years' experience in Civil Engineering, on the hand "bullet point say over all experience should be 20 years." Could you please elaborate on the Number of years of experience?	With reference to the query regarding the years of experience required for the Project Manager/Team Leader, the following clarification is provided: The correct requirement is that the Project Manager/Team Leader should have: Civil Engineer having MS Degree in Hydrogeology (Ground water) /Water Resources Engineering recognized university / M.sc Geophysics (35 Years of experience in Civil Engineering). □ Should be able to lead the team of consultants and assist the client in timely completion of the services with quality output. A minimum of 35 years of overall professional experience, with at least 10 years of specific experience in groundwater-related projects. Please note that any mention of 20 years of experience elsewhere in the document is a typographical error. The **correct requirement is 35 years of overall experience**, as stated above.
10.	Geophysicist- Should be Master Degree in Geophysics It is recommended to relax the criteria and allow consultants to nominate person with a Master's degree in Geology or Hydrogeology who has relevant experience as a Geophysicist on ground water projects. Further, four (4) numbers are required for this position, two (2) Experts would be enough for the task.	This criterion has been approved from the competent forum and cannot be altered.
11.	Surveyor/GIS Expert / Web Developer- Should have Master degree in GIS, post master qualification in the related field will be given additional marks. • Please note that surveyors work entirely in the field, while GIS and web developers operate in the office. • Additionally, surveyors usually hold a Diploma or B-Tech, whereas GIS experts and web developers typically	Regarding the position of Surveyor / GIS Expert / Web Developer, the following clarification is provided: As per the RFP, the position of Surveyor/GIS Expert/Web Developer is collectively allocated 12 man-months, with a total of 8 personnel. It is now up to the consultant to propose and utilize these personnel effectively,

	have a Master's or Bachelor's degree. • If this position requires GIS experts, then a maximum of two or three experts should be sufficient for the given task. Additionally, an expert with a Bachelor's degree can also be considered. • Further, Web developer and Surveyor could be in non-key position with Bachelor's degree and diploma respectively. Please elaborate on this position whether for Surveyor or GIS or Web Developer along with qualification and number of experts.	based on their methodology and work plan, ensuring that all required tasks are completed within the allocated man-months. Qualifications: For GIS Experts, the RFP clearly specifies a Master's degree in GIS. A post-Master's qualification in the relevant field will carry additional evaluation marks. He /She should have at least overall experience of 10 years with 5 years' experience in exposure to the groundwater/water sector project related activities. For Surveyors, B-Tech qualification is acceptable, considering the field-based nature of their work. For Web Developers, a Master's degree in Computer Science, IT, or a related field is required.
12.	According to our understanding, the Man-Months on page 59 are for each individual, so the calculation will be as follows: Geophysicist Man-Months will be 4 *12 = 48 Surveyor/GIS Expert Man - Months will be 8 * 12= 96 and so on. Is this understanding correct? Could you please clarify if there is any mistake?	With reference to the query regarding the interpretation of man-months mentioned on Page 59 of the RFP, the following clarification is provided: Yes, your understanding is correct. The man-months indicated are per individual, and the total man-months for each position should be calculated by multiplying the number of personnel by the individual man-months. For example: • Geophysicist: 4 individuals × 12 man-months = 48 man-months • Surveyor/GIS Expert: 8 individuals × 12 man-months = 96 man-months This method applies similarly to other positions listed in the table.
13.	Bid security of 2% is mentioned in the Portal of EPADS, but neither the advertisement nor the request for proposals mentions it. Could you please confirm whether this will be part of the submission?	Yes, it is mandatory to submit a Bid Security equivalent to 2% of the total bid price. This requirement is explicitly mentioned on the EPADS portal and is in line with the provisions of the Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA). Therefore, all consulting firms must ensure that the 2% bid security is included as part

		of their proposal submission, failing which the proposal shall be considered non-responsive. In addition, it is also clarified that, as per Clause 3.1 of the Data Sheet in the RFP, the successful consultant shall be required to submit a Performance Security equivalent to 10% of the Contract amount, in the form of a Bank Guarantee
14.	The pre-bid meeting is scheduled for June 30th 2025, and the proposal submission date is July 7th 2025. Minutes of the meeting will be issued a few days after the meeting, and consultants need time to incorporate the client's responses into their submissions. Furthermore, 7th July will be 11th Muharum. We will have weak or no internet signals, it will be difficult to submit the proposal via the online portal of EPADS on time. You are kindly requested to extend the submission deadline by at least one week.	The proposal submission deadline has already been extended once through a corrigendum, from 27-06-2025 to 07-07-2025. In light of this prior extension and to maintain the overall project timeline, no further extension can be granted.
C)	**Pakistan Engineering Services (Pvt.) Ltd.**	
1.	On page no. 56, total duration of the assignment is mentioned as 24 months, however, under salary cost and direct cost component, the maximum man months are mentioned as 18 months which is a contradiction and requires clarification.	It is clarified that the correct and final duration of the study is 18 months. The mention of 24 months in the RFP is a typographical error and may kindly be disregarded.
2.	The quantum of 24 months to cover an area of 16,500 km2 is very less, for which technical staff needs to be increased manifold.	The proposed 18-month timeline has been determined based on a detailed assessment of the project's scope, methodology, and resource requirements, ensuring both efficient resource utilization and high-quality output.
3.	On page no. 45, the total area mentioned in the RFP is 16,500 km2 which was covered by WAPDA TNO Study from 1982-1994, covering 26 nos. of plains in different districts of KP (formerly NWFP). The exact area with details of plains to be covered needs clarification, in which districts they fall, whereas, no present merged area was covered except Parachinar plain (previously fall in FATA area). This requires clarification.	the current assignment expands the scope beyond the original TNO study. It now covers the entire province of Khyber Pakhtunkhwa, including newly merged districts (formerly FATA areas).
4.	2000 nos. of wells are proposed on page no. 60, which are very less if we	It is clarified that the figure of 2,000 wells has been proposed as a baseline reference

<table>
<tr><td></td><td>consider the area of 16,500 km2, which implies that a well shall be selected for an area of 8.25 km2. Similarly, water level measurement to be carried out at a well in area of 8.25 km2. Sr. No. 7, 8, 14 & 19 of TORs depend upon the defined area and frequency of data taken.</td><td>to guide planning and resource estimation. However, if the consultant deems it necessary—based on their technical approach, methodology, or to ensure representative coverage of the command area—they may increase the number of observation points in the best interest of the project.</td></tr>
<tr><td>5.</td><td>It is mentioned that measurements will be conducted bi-annually (pre-monsoon and post-monsoon), however, these measurements should be monitored for 12 months. Please clarify.</td><td>The measurement of water levels will be conducted on selected open wells and existing tube
wells. A minimum of 2000 water points, or as per the actual requirement of the area, will be
monitored. The duration of the monitoring will be for at least 12 months. Measurements will be
conducted bi-annually (pre-monsoon and post-monsoon), which has been deemed sufficient for46
capturing significant fluctuations in the water table.</td></tr>
<tr><td>6.</td><td>2000 is mentioned against base map at Sr. No. 6A & 6B, however, units are not mentioned against it, which requires clarification.</td><td>
<table>
<tr><td>a</td><td>Preparation of Base Map</td><td rowspan="3"></td><td rowspan="3">2000</td><td rowspan="3">12</td></tr>
<tr><td>b</td><td>General Well Inventory in i/c measurement EC values at all water points</td></tr>
<tr><td>c</td><td>Plotting of selected open Wells on Base Map for monthly observations</td></tr>
</table>
The figure "2000" should be mentioned against items A, B, and C as shown in the table. This figure represents the number of water points to be measured, as already discussed under your Query No. 04.

For clarity, the revised entries are as follows:</td></tr>
<tr><td>7.</td><td>The purpose of topographic survey in the assignment shall be to obtain elevation and coordinates of the well and not to conduct the topographic survey for the whole study area. Please</td><td>the purpose is to obtain the elevation and coordinates of selected open wells and water points to facilitate the development of a groundwater table elevation contour map.</td></tr>
</table>

	clarify.	Specifically, leveling of at least 1,000 selected open wells/water points shall be carried out as part of this activity. The data obtained will be used to generate an accurate representation of the groundwater gradient and flow direction across the study area.
8.	If we consider proposed 350 ERS data in 16,500 km2 area, then it shall account for only 47 km2 for a single ERS, which is on the lower side and shall produce the reconnaissance investigations.	Consultants are required to quote their rates as per quantity outlined in the RFP, however, payment shall be made as per actual quantity / Nos. executed at site.
9.	At Sr. No. 12 on page no. 61, regeneration points are proposed as 1000, however, the actual number will be more than that (expected to be 2500).	Consultants are required to quote their rates as per quantity outlined in the RFP, however, payment shall be made as per actual quantity / Nos. executed at site.
10.	Instead of bounding the consultants to use MODFLOW or GMS, any other suitable software should be included to effectively to accomplish the assignment.	The use of MODFLOW or any other relevant and proven numerical groundwater modeling tool is acceptable, provided it is capable of simulating steady and non-steady flow in irregularly shaped aquifer systems, including confined, unconfined, or mixed conditions. While MODFLOW is a widely accepted standard, consultants may propose alternative modeling tools that meet the functional and technical requirements of the assignment, subject to proper justification and compatibility with the project objectives. Additionally, the use of GMS (Groundwater Modeling System) as a graphical user interface for model development, visualization, and calibration is recommended but not mandatory. Other interfaces may also be considered if they offer equivalent functionality and user transparency.
11.	Under software & website, it needs clarification whether a new website will be developed or existing Irrigation Department KP website shall be used for uploading reports.	It is clarified that a new dedicated website will be developed specifically for the project. This website will be linked to the KP IT Board server to ensure proper hosting, accessibility, and data security. To facilitate this task, the services of a Web Developer have already been included in the RFP. The website will serve as a platform for uploading reports,

		data visualizations, and other project outputs for stakeholder access and public awareness. The Surveyor and Web Developer posts shall be treated as non-key staff for which no CVs are required.
12.	Scope for GIS mapping needs to be defined.	The GIS mapping scope under this assignment shall include, but not be limited to, the following components: Mapping of all inventoried wells (open wells, tube wells) with geographic coordinates. Spatial distribution mapping of groundwater levels and quality parameters across the study area. Preparation of groundwater table elevation contour maps using leveled well data. Digitization and georeferencing of existing hydrogeological and administrative boundaries. Development of thematic layers (e.g., aquifer types, recharge zones, groundwater usage patterns). Integration of field data into a comprehensive GIS database for visualization, analysis, and reporting. GIS support in modeling input preparation and final presentation of results. The GIS deliverables shall be compatible with standard GIS formats and integrated into the project's web-based data portal.
13.	Purpose of drilling 17000 ft. needs to be defined.	The drilling is intended for the installation of observation/monitoring wells to assess groundwater levels, particularly in areas where existing data is insufficient or unavailable, as determined during the field investigation. The site-specific requirement for drilling will be based on hydrogeological conditions, data gaps, and the need to establish a reliable groundwater monitoring network for accurate modeling and long-term resource management.
14.	WAPDA Reports / GT sheets of previous studies shall be provided in soft form or otherwise as it shall take a	The consultants may access the required reports and GT sheets directly from WAPDA, if available in soft form. The

	lot of time to regenerate them from hard copies.	procuring agency does not guarantee the availability of these documents in digital format. In case only hard copies are available, it will be the responsibility of the consultant to digitize or extract the required information as part of their assignment deliverables.
15.	Under Sr. No. 10 on page no. 61, under purchase of Ground Water Monitoring equipment, please specify which equipment are required with proper specifications like auto/manual, no of sets, etc	The Department currently lacks technical knowledge of the latest groundwater monitoring equipment. Therefore, the task has been entrusted to the consultants. The required list of equipment, along with specifications (e.g., auto/manual, number of sets), will be finalized and procured after approval by the Technical Committee

Note: Consultant must submit the original and 03 Copies of the Technical Proposal, and the original of the Financial Proposal (in separate sealed envelopes) on the following address "Executive Engineer Ground Water and Climate Change Irrigation Division Peshawar, Irrigation Department, Warsak Road, Peshawar" only through reliable courier Service on or before the deadline along with required documents as per details mentioned in RFP. The affixed labels of the Courier Service provider shall be authenticated for tracking before opening. Fake courier delivery shall be processed as per the law and would not be considered.

Prepared By:

Executive Engineer
Ground Water and Climate Change
Irrigation Division, Peshawar

Approved By:

Chief Engineer (North)
Irrigation Department

Copy of the above is forwarded to:

1. Superintending Engineer (Head Quarter) O/O the Chief Engineer(North), Irrigation Department, Peshawar.
2. Sub Divisional Officer, Ground Water and Climate Change Irrigation Sub Division Peshawar.
3. Assistant Director Web, Irrigation Department, Khyber Pakhtunkhwa, Peshawar.
4. PS to Secretary to Govt. of Khyber Pakhtunkhwa Irrigation Department, Peshawar.
5. BAK Consulting Engineers.
6. Pakistan Engineering Services (Pvt) Ltd. (PES)
7. AGES Consultants.
8. Rehman Habib Consultants Pvt. Ltd.

EXECUTIVE ENGINEER
Ground Water and Climate
Change Irrigation Division,
Peshawar