



Loan No. and Title:	3562-PAK: Punjab Intermediate Cities Improvement Investment Program (PICIP)
Contract No. and Title:	ICB-Works/PICIIP-08A: Construction of Wastewater Treatment Plant (WWTP) in North Zone, Sahiwal

ADDENDUM No. 01

Subject: Amendment of Bid Document for ICB-Works/PICIIP-08A in accordance with ITB 8.1, Section 1 (Instructions to Bidders) of Bidding Document

With reference to IFB Notice dated 20 Sep 2023 following amendments have been made in the respective sections of the Bidding Documents under this Addendum No. 1 in accordance with ITB 8.1 of the Bidding Documents. The addendum shall be read and construed as an integral part of the Bidding Documents and shall take precedence in case of any conflict/ambiguities in the Bidding Documents and other provisions within. The changes mentioned herein below are applicable for the subject Contract (ICB-Works/PICIIP-08A), unless indicated otherwise.

(i) Bill of Quantities (Section 4)

i) Bill No. 1.1; ANAEROBIC, FACULTATIVE AND MATURATION PONDS

a) The description of BOQ items shall at Bill No. 1.1, Sr. No. 18 read as follows;

CONSTRUCTION OF WASTEWATER TREATMENT PLANT IN NORTH ZONE, SAHIWAL (STAGE -1) BILL OF QUANTITIES

BILL NO. 1.1: ANAEROBIC AND FACULTATIVE PONDS

Sr. No.	Description	Unit	Quantity	Rate (Rs)		Amount (Rs)
				in Figure	in words	
18	Providing, laying to designed section and compacting (to at least 90% of the maximum modified Proctor dry density) clay as liner (source to be approved by the Engineer), complete in all respects., Liner material should be compacted in layers not exceeding 6"(150mm). Liner material should be compacted slightly wet of optimum. Scarify the top of already compacted liner layer to a minimum depth of 1.0 inch before placing the next layer. Clods more than 5.0 mm size must be present in liner material, these must be pulverized before placing. (both in bed & slope) The material suitable to be used for compacted soil liner shall meet the following specifications: Vertical in-situ hydraulic conductivity in compacted state $\leq 1 \times 10^{-7}$ cm/sec Fines (particles passing 0.075 mm sieve) ≥ 30 % Plasticity index = 8 – 30 % Gravels (particles passing 75 mm sieve and retaining 4.75 mm sieve) ≤ 20 % Maximum particle size ≤ 10 mm (Item rate include lead from any source within district up to WWTP)	Cft	12,473,062			
Total						

*** Note: It is stated that for the above-mentioned BOQ items, the Borrow areas locations (coordinates attached in Annex-A) within the District Sahiwal as identified by the EPCM Consultant during initial geotechnical investigations are attached as Annex-A. This information is being provided for the Bidder's reference only and the sole responsibility with regard to the identification of specified material and execution of the item at Sr. No. 18, Bill 1.1, and all other items in the BOQ shall lie with the Bidders in all respects.**

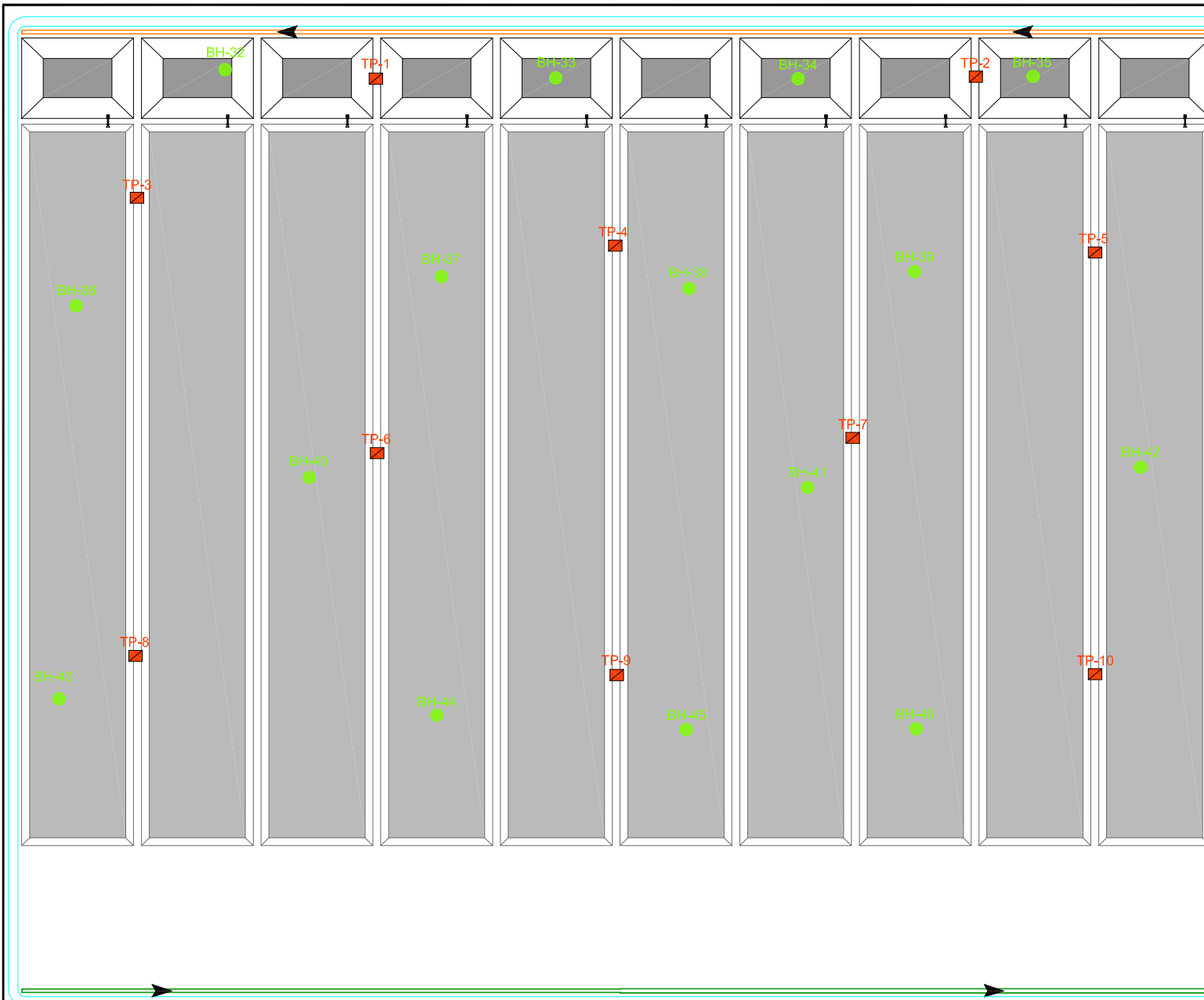
This Addendum shall now serve as a mandatory part of the bidding document for the relevant sections and shall be referred to while preparing the bid.

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APPENDIX-A

GEOTECHNICAL INVESTIGATION PLAN

LOCATION PLAN OF BORROW AREAS



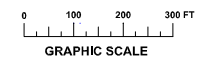
Sr.No	Northing (ft)	Easting (ft)	Depth (m)
BH-32	11154708	1021880	10.0
BH-33	11153866	1021859	10.0
BH-34	11153248	1021857	10.0
BH-35	11152649	1021863	10.0
BH-36	11155088	1021278	10.0
BH-37	11154157	1021352	10.0
BH-38	11153526	1021322	10.0
BH-39	11152951	1021365	10.0
BH-40	11154494	1020840	10.0
BH-41	11153224	1020815	10.0
BH-42	11152375	1020866	10.0
BH-43	11155132	1020276	10.0
BH-44	11154169	1020234	10.0
BH-45	11153533	1020197	10.0
BH-46	11152947	1020199	10.0
TP-1	11154324	1021857	1.5
TP-2	11152795	1021862	1.5
TP-3	11154933	1021553	1.5
TP-4	11153714	1021431	1.5
TP-5	11152491	1021414	1.5
TP-6	11154321	1020902	1.5
TP-7	11153109	1020941	1.5
TP-8	11154937	1020385	1.5
TP-9	11153710	1020336	1.5
TP-10	11152491	1020338	1.5

LEGEND:

- BOREHOLES 10m DEPTH
- TESTPITS 1.5m DEPTH

NOTES:

1. THE GEOTECHNICAL INVESTIGATION PLAN HAS BEEN DEVELOPED ON THE BASIS OF LAYOUT PLAN PROVIDED BY PROJECT MANAGER.



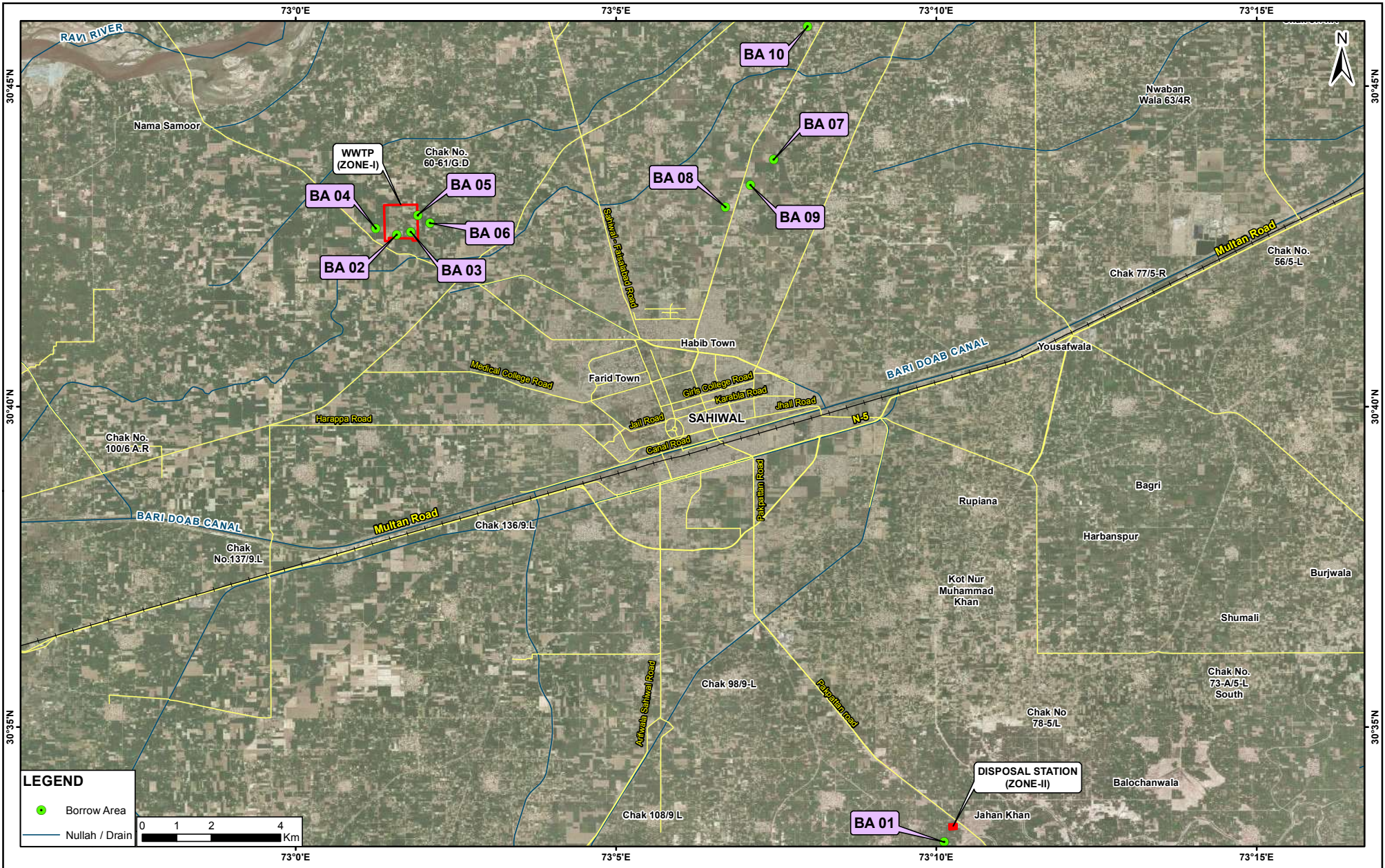
CLIENT
**LG & CD DEPARTMENT,
 GOVT. OF PUNJAB**

CONSULTANT
**NATIONAL ENGINEERING SERVICES
 PAKISTAN (PVT.) LTD.**
 HEAD OFFICE:- NESPAK HOUSE, I-C, BLOCK-N,
 MODEL TOWN EXTENSION, LAHORE, PAKISTAN.

04					DRAWN	SALEEM
03					SUBMITTED	
02					RECOMMENDED	
01	-	-			CHD./VER.	
REV.	DATE	DESCRIPTION	APPROVED	APPROVED		

PROJECT
**PUNJAB INTERMEDIATE CITIES
 IMPROVEMENT PROGRAM, WATER
 SUPPLY AND SEWERAGE SYSTEM IN
 SAHIWAL CITY**

GEOTECHNICAL INVESTIGATION PLAN (WASTEWATER TREATMENT PLANT, ZONE-1)		SCALE
DATE	DRAWING No.	REV.
JANUARY, 2020	3976/024/D/6D001	0




LEGEND

- Borrow Area
- Nullah / Drain


0 1 2 4
Km

CLIENT



**LG & CD DEPARTMENT,
GOVT. OF THE PUNJAB**

CONSULTANT



**NATIONAL ENGINEERING
SERVICES PAKISTAN
(PVT.) LTD**

HEAD OFFICE:- NESPAK HOUSE, 1-C, BLOCK-N
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04				DRAWN	BILAL
03				SUBMITTED	
02				RECOMMENDED	
01				CHD/VER.	
REV.	DATE	DESCRIPTION	APPROVED	APPROVED	

PROJECT

**PUNJAB INTERMEDICAL CITIES
IMPROVEMENT PROGRAM,
WATER SUPPLY AND SEWERAGE
SYSTEM IN SAHIWAL CITY**

GEOTECHNICAL INVESTIGATION PLAN		SCALE
BORROW AREAS		1:100,000
DATE	DRAWING No.	REV.
JANUARY, 2020	3976/024/D/6D001	0

During initial geotechnical investigations conducted by the EPCM consultant, PICIIP; thirteen (i.e., two onsite and eleven borrow area) soil samples were collected to check their suitability for compacted soil liner. Location of onsite and borrow area investigation points are attached herewith as **Annex - A**. Laboratory test results indicated that tested soil samples (collected from TP-1, TP-6, BA-1, BA-2, BA-6, BA-8 & BA-10) have characteristics as per requirement and can be used as lining material. However, this information is being provided for the Bidder's reference only and the sole responsibility with regard to the identification of specified material and execution of the item at Sr. No. 18, Bill 1.1, and all other items in the BOQ shall lie with the Bidders in all respects.

In addition to the above, the coordinates of the of the Borrow areas as shown in the **Annex-A**, are as under:

Borrow Area	Coordinates
BA-01	N: 3381531 m E: 324351 m
BA-02	N: 3399276 m E: 310996 m
BA-03	N: 3399359 m E: 311352 m
BA-04	N: 3399470 m E: 310479 m
BA-05	N: 3399835 m E: 311530 m
BA-06	N: 3399600 m E: 311833 m
BA-07	Lat: 30.7308 Long: 73.1244
BA-08	Lat: 30.718553 Long: 73.111852
BA-09	Lat: 30.724351 Long: 73.118289
BA-10	Lat: 30.765520 Long: 73.133173