

From

The Executive Engineer,
Construction Division no. 4,
Pb. PWD B&R Branch,
Ludhiana

ADDENDUM TO SOIL REPORT

To

Memo no.

Dated: /06/2009

Subject: 4-LANING OF ROAD ALONG SIDHWAN CANAL WITH FLYOVERS, UNDERPASS, ROBBS AND CANAL LINING [Doraha to Ludhiana-Ferozepur road] i.e. Southern Bypass Ludhiana (approx. length 26.900km)

The following tables are added to the soil report issued in the Tender Documents for the above noted work which may please be considered while submitting the tenders:

Table 1(a) Bore Log Chart and Data Sheet Chainage 0+000

Project		Upgradation of Southern Bypass Ludhiana along Sidwan Canal		STATE	Punjab			Reference Point		257m													
Bore Hole		BH-1		Chainage	0+000 Km (LHS)			Date of Boring		20.01.09													
Bore Hole		BH-1		Location	Doraha : Major Bridge			Dia of Casing		100mm													
Depth from Ref. (m)	Nature of sampling	water Table from Ref. Point (m)		SPT value/No of blows/30cm	Symbolic Representation	Depth from NS (m)	Visual observation of soil	ISC group	Composition			Atterburg limits		Density & Moisture			Specific Gravity	Void Ratio	Unconfined compressive strength (Kg/cm ²)	Shear Parameters		C _c compression Index	
		Observed.	Corrected						% Gravel	% sand	% Silt & clay	Liquid Limit	Plasticity Inde	Field Density (g/cc)	Field moisture (%)	Dry density (g/cc)				Proctor density (g/cc)	Cohesion (Kg/cm ²)		Angle of internal friction (Φ)
0.00	Undisturbed & disturbed samples	Water Table at 7.1 m from NGL																					
1.50		6	6			4.50	Silty Sand	SM	-	72	28	NP	NP	2.14	12.8	1.9		2.63	0.39	-	-	-	
3.00		11	11						-	59	41	NP	NP	-	-	-		-	-	-	-	-	
4.50		7	7			6.00	Silty clay	CL	-	49	51	25.2	10.1	1.89	7.4	1.76		2.67	0.52	-	0.22	18	0.08
6.00		13	12						-	93	7	NP	NP	-	-	-		-	-	-	0	32	-
7.50		16	14						-	97	3	NP	NP	1.69	3.2	1.64		2.67	0.63	-	-	-	-
9.00		14	11						-	96	4	NP	NP	-	-	-		-	-	-	0.02	31	-
10.50		15	11						-	96	4	NP	NP	1.87	3.9	1.8		2.68	0.49	-	-	-	-
12.00		17	12			13.50			-	95	5	NP	NP	-	-	-		-	-	-	0.04	30	-
13.50		-	-						-	7	93	32.6	6.1	-	-	-		-	-	-	-	-	-
15.00		22	22						-	6	94	-	-	2.05	18.4	1.73		2.64	0.52	0.7	0.28	16	0.11
16.50		29	29			18.00			-	10	90	32.5	6.0	-	-	-		-	-	-	-	-	-
18.00		-	-						-	4	96	28.9	11	-	-	-		-	-	-	0.4	13	-
19.50		24	24			21.00			-	5	95	-	-	-	-	-		-	-	1.4	-	-	-

Table 1(a) Contd.

Bore Hole		BH-1		SECTION	0+000 Km (LHS)				Continuation sheet			Two												
Depth from Ref. (m)	Nature of sampling	water Table from Ref. Point (m)		SPT value/No of blows/30cm	Symbolic Representation	Depth from NS (m)	Visual observation of soil	ISC group	Composition			Atterburg limits		Density & Moisture			Specific Gravity	Void Ratio	Unconfined compressive strength (Kg/cm ²)	Shear Parameters		C _c compression Index		
		Observed.	Corrected						% Gravel	% sand	% Silt & clay	Liquid Limit	Plasticity Index	Field Density (g/cc)	Field moisture (%)	Dry density (g/cc)				Proctor density (g/cc)	Cohesion (Kg/cm ²)		Angle of internal friction (Φ)	
21.00	Undisturbed & disturbed samples	33	33			22.5	Silty clay	CL	-	2	98	29	11.2	2.12	17.4	1.81	-	2.64	0.46	-	-	-		
22.50		-	-				Silty soil	ML	-	5	95	25.3	4.3	-	-	-	-	-	-	-	0.13	22		
24.00		27	27							-	8	92	-	-	-	-	-	-	-	-	-	-	-	
25.50						27				-	6	94	24.9	4	-	-	-	-	-	-	-	-	-	
27.00		29	12							-	90	10	NP	NP	1.96	12.0	1.75	-	2.674	0.53	-	-	-	-
28.50								Fine sand	SP	-	92	8	NP	NP	-	-	-	-	-	-	-	0.03	31	
30.00		30	13				30			-	93	7	NP	NP	-	-	-	-	-	-	-	-	-	
Selected values		17.0												1.96										

Table 1(b)

Bore Log Chart and Data Sheet

Chainage 2+430

Project		Upgradation of Southern Bypass Ludhiana along Sidwan Canal		STATE	Punjab		Reference Point	255m															
Bore Hole		BH-2		Chainage	2+430 Km (LHS)		Date of Boring	22.01.09															
Bore Hole		BH-2		Location	Manpur : Major Bridge		Dia of Casing	100mm															
Depth from Ref. (m)	Nature of sampling	water Table from Ref. Point (m)		SPT value/No of blows/30cm	Symbolic Representation	Depth from NS (m)	Visual observation of soil	ISC group	Composition			Atterburg limits		Density & Moisture			Specific Gravity	Void Ratio	Unconfined compressive strength (Kg/cm ²)	Shear Parameters		C _c compression Index	
		Observed.	Corrected						% Gravel	% sand	% Silt & clay	Liquid Limit	Plasticity Index	Field Density (g/cc)	Field moisture (%)	Dry density (g/cc)				Proctor density (g/cc)	Cohesion (Kg/cm ²)		Angle of internal friction (Φ)
0.00	Undisturbed & disturbed samples	Water Table at 4.5 m from NGL																					
1.50		8	8				Silty clay	CL	-	18	82	30.1	12.7	-	10.0	-	-	-	-	-	-	-	
3.00		5	5							-	22	78	31.4	13.2	1.833	15.2	1.59	2.63	0.65	-	0.4	13	
4.50		7	7							-	12	88	30.7	11.9	-	25.6	-	-	-	1.1	-	-	-
6.00		-	-							-	17	83	30.2	10.3	1.973	20.4	1.64	2.64	0.61	-	0.44	12	0.16
7.50		12	12							-	15	85	29.4	10.7	-	18.6	-	-	-	-	-	-	-
9.00		14	14			10.50				-	9	91	30.8	11.8	2.032	17.4	1.73	2.63	0.52	-	0.45	11	-
10.50		-	-			12.00	Silty soil	ML	-	28	72	NP	NP	1.9	17.4	1.62	2.62	0.62	-	0.27	19	-	
12.00		16	12							-	68	32	NP	NP	1.61	3.2	1.56	2.67	0.71	-	-	-	-
13.50		22	15				Silty sand	SM	-	78	22	NP	NP	-	4.2	-	-	-	-	-	0.11	29	-
15.00		28	17			16.50				-	67	33	NP	NP	1.61	3.2	1.56	2.64	0.69	-	-	-	-
16.50		36	19							-	90	10	NP	NP	-	7.6	-	-	-	-	-	-	-
18.00		31	17				Fine sand	SP	-	90	10	NP	NP	1.67	4.1	1.6	2.68	0.67	-	0	32	-	
19.50		-	-							-	88	12	NP	NP	-	-	-	-	-	-	-	-	-

Table 1(b) Contd.

Bore Hole		BH-2			SECTION	2+430 Km (LHS)				Continuation sheet				Two										
Depth from Ref. (m)	Nature of sampling	water Table from Ref. Point (m)		SPT value/No of blows/30cm	Symbolic Representation	Depth from NS (m)	Visual observation of soil	ISC group	Composition			Atterburg limits		Density & Moisture				Shear Parameters						
		Observed.	Corrected						% Gravel	% sand	% Silt & clay	Liquid Limit	Plasticity Index	Field Density (g/cc)	Field moisture (%)	Dry density (g/cc)	Proctor density (g/cc)	Specific Gravity	Void Ratio	Unconfined compressive strength (Kg/cm ²)	Cohesion (Kg/cm ²)	Angle of internal friction (φ)	C _c compression Index	
21.00	Undisturbed & disturbed samples	40	19			30	Fine sand	SP	-	92	8	NP	NP	-	-	-	-	-	-	0	33	-		
22.50		37	17						-	92	8	NP	NP	1.69	4.5	1.62		2.68	0.66	-	-	-	-	-
24.00		40	18						-	93	7	NP	NP	-	-	-	-	-	-	-	-	0	32	-
25.50		42	18						-	92	8	NP	NP	-	-	-	-	-	-	-	-	-	-	-
27.00		-	-						-	94	6	NP	NP	1.61	3.2	1.56	-	2.674	0.71	-	-	-	-	-
28.50		44	18						-	95	5	NP	NP	-	-	-	-	-	-	-	-	0	34	-
30.00		45	17						-	90	10	NP	NP	-	-	-	-	-	-	-	-	-	-	-
Selected values		14.0															1.77							

All other terms and conditions as stated in the DNIT remain unaltered. A copy of this addendum should also be submitted, duly signed, as a part of the bid.

Bidders in their own interest are requested to keep on visiting our website (www.pidb.org) for subsequent Corrigendum's, Additions and Clarifications. No press advertisement will be published in this regard.

DA/Nil

Executive Engineer,
Construction Division no 4,
Pb. PWD B&R Branch,
Ludhiana.

Endst. No.

Dated: /06/2009

Copy of above is forwarded to the following for information and necessary action:

1. The Managing Director, Punjab Infrastructure Development Board, Chandigarh.
2. The Chief Engineer (IP), Punjab PWD B&R Branch, Chandigarh.
3. The Superintending Engineer, Central Works Circle, Pb. PWD B&R Branch, Ludhiana.
4. M/s SMEC India Pvt. Ltd., 5th Floor, Tower C, DLF Building No. 8, DLF Cyber City, Phase-II, Gurgaon – 122002.
5. M/s Feedback Ventures Pvt. Ltd., 3rd Floor, SCO 13-15, Sector 34-A, Chandigarh – 160022 for necessary action.

DA/Nil

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