

DAFTARY DESCON
ENGINEERING PVT. LTD.

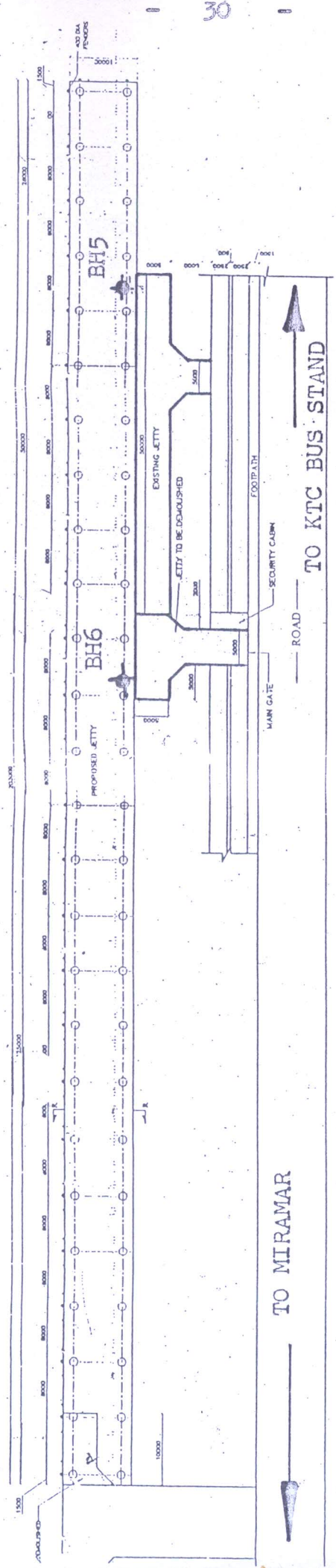
GOA OFFICE
Velhos Bldg; 2nd floor,
Near Municipal Garden,
Panaji, Goa. 403 001.

JOB NO. G4.026: S.I. PROPOSED COP JETTY AT PANAJI, GOA.

JAN. '07



MANDOVI RIVER
→



LEGEND
◆ BOREHOLE LOCATION

PLAN OF COP JETTY @ PANAJI

FIG. NO.17 : SITE LAYOUT PLAN SHOWING BOREHOLE LOCATION (NTS)

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FIG NO.18 : BOREHOLE LOG NO.5

Date Of Start : 22/12/2006 Rotary Drilling : TC / diamond bit
Date Of Completion : 28/12/2006 Dia. Of Casing : 100mm / NX
Borehole Coords : Refer site layout plan Dia. Of Core : NX
Bed level : (-) 4.56m

Profile	Depth below BL (m)	Description	SPT N	Samples			Remarks	
				No.	Type	Depth (m)		
						From		To
		ALLUVIAL DEPOSITS						
x								
x								
x	2.5							
x		Dark grey to grey, very soft marine clayey silt with some broken shells						
x		(CHICOL)						
x	5.0							
x								
x	7.5							
x								
XX	10.0		21	01	DP	09.55	10.00	
x								
x	12.5	Pink, yellow, brown, grey, very stiff clayey silt with gravels.						
x								
x	15.0							
x								

LEGEND

DP : Sample From SPT Tube
DW : Wash Sample

UD : Undisturbed Sample
CB : Core Barrel Sample

FIG NO.20: STANDARD PENETRATION TEST RESULTS

SR. NO.	BH. NO.	DEPTH (M) BELOW GL		PENETRATION (CM)	CORRESPONDING NO. OF BLOWS	SPT N	REMARKS
		FROM	TO				
1	5	09.55	10.00	15	05		
				15	08		
				15	13	21.	
2	5	15.10	15.37	15	18		
				12	50	>50	Rebound from 27 th blow.
3	5	16.50	16.95	15	18		
				15	25		
				15	38	>50	
4	5	18.05	18.09	04	50	>50	Rebound from 7 th blow.
5	5	20.00	20.09	09	50	>50	Rebound from 7 th blow.
6	6	01.60	02.05	15	01		
				15	05		
				15	04	09	
7	6	03.05	03.50	15	11		
				15	07		
				15	04	11	
8	6	04.50	05.10	20	01		
				40	01	<1	
9	6	06.07	06.52	15	02		
				15	03		
				15	07	10	
10	6	07.50	07.95	15	07		
				15	11		
				15	07	18	
11	6	09.00	09.45	15	03		
				15	05		
				15	09	14	
12	6	10.50	10.95	15	01		
				15	02		
				15	14	16	

FIG NO.20: STANDARD PENETRATION TEST RESULTS (CONTD.)

SR. NO.	BH. NO.	DEPTH (M) BELOW GL		PENETRATION (CM)	CORRESPONDING NO. OF BLOWS	SPT N	REMARKS
		FROM	TO				
13	6	12.00	12.45	15	11		
				15	18		
				15	21	39	
14	6	13.50	13.95	15	08		
				15	04		
				15	06	10	
15	6	15.00	15.45	15	03		
				15	06		
				15	09	15	
16	6	16.50	16.95	15	08		
				15	19		
				15	34	>50	
17	6	18.00	18.27	15	20		
				12	50	>50	Rebound from 33 rd blow.
18	6	20.00	20.09	09	50	>50	Rebound from 5 th blow.
19	6	22.00	22.05	05	50	>50	Rebound from 3 rd blow.

FIG NO.21 : ROCK CORE RECOVERY DETAILS

BH. NO.	SAMPLE NO.		DEPTH (M)		DRILLING RUN (M)	CORE RECOVERED (M)	CORE RECOVERED (%)	R.Q.D.
	FROM	TO	FROM	TO				
5	06	10	20.70	21.35	0.65	0.48	73.85	43.07
5	11	14	21.35	22.05	0.70	0.49	70.00	24.28
5	15	18	22.05	22.47	0.42	0.35	83.33	54.76
5	19	25	22.47	23.88	1.41	1.25	88.65	58.15
6	17	22	22.60	23.57	0.97	0.45	46.39	Nil
6	23	29	23.57	24.81	1.24	0.35	28.22	Nil
6	30	36	24.81	25.66	0.85	0.55	64.70	Nil



Dattary Descon Engineering Pvt. Ltd.

New Veilho's Bldg.
Municipal Garden
PANAJI-GOA.

FIG 22: TABLE OF LABORATORY TEST RESULTS

Job. No. G4.026: S.I. PROPOSED COP JETTY AT PANAJI, GOA.

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Sr. No.	Bore No.	From	To	Field Density & Moisture Content		Atterberg Limits		Mechanical Analysis			80X SHEAR (Consolidated Quick)	REMARKS		
				Density: gm/cc	Moisture: %	L.L. %	P.L. %	P.I.	Sand: above 4.76mm	Silt: .076 to .075mm			Clay: below .002mm	
1	5	9.55	10.00	1.88	1.56	20.4	--	--	3.5	16.5	80.0	2.65	2000	21.5
2	5	16.50	16.95	1.96	1.67	16.9	--	--	1.0	15.5	83.5	2.72	2550	24.5
3	6	5.10	5.45	1.71	1.29	32.2	--	--	2.5	68.0	29.5	2.70	500	13.5
4	6	10.00	10.35	1.76	1.23	42.8	--	--	0.0	40.5	59.5	2.66	1100	9.5

Note: Shear tests are done on remoulded samples at their NMC & field density.

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Sr. No.	BH. No.	Sample No.	Depth Below GL		Dia. (D) (cm)	Length (L) (cm)	Rock Crushing Results (Soaked)			
			From (m)	To (m)			Load Applied (Kg.)	Actual Crushing Strength (Kg/cm ²)	$\frac{L}{D}$	Corrected Crushing Strength (Kg/cm ²)
1	5	21	22.47	23.38	5.4	10.8	16500	720.82	2.0	720.82
2	6	32	24.81	25.66	5.4	8.2	20500	895.56	1.52	848.54

FIG. NO.23 : ROCK CORE CRUSHING STRENGTH TEST RESULTS (SOAKED)