

バングラデシュ国

ジャムナ河架橋計画調査(地上測量)

報告書

1973年7月～11月

海外技術協力事業団

社団法人 国際建設技術協会

バングラデシュ国 ジャムナ河架橋計画調査(地上測量) 報告書

海外技術
社団法人 国際

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国際協力事業団		
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Bangladesh 国ジャムナ河架橋計画調査
 測量作業報告書

ま え が き

本調査は Bangladesh 国，ジャムナ河架橋計画の架橋候補地点
 (4 地点) の比較選定を行なうための資料として、特に雨期の河川横
 断測量、流速測定、水準測量及び水位測定を行ない、今後の架橋計画
 の資料に供する事を目的とし調査を実施したものである。

本調査にあたって、終始御懇切なる御指導、御鞭撻を賜りました、
 Bangladesh 国政府他関係各位に深く謝意を表わします。

1. 調査計画内容

1) 調査区域

Bangladesh国ジャムナ河流域 (図-1 参照)

2) 調査期間

本調査は下記の期間に実施されたものである。

1973年7月～1973年11月

3) 調査概要

a) 河川横断測量及び流速測定

図-1 に示すジャムナ河流域、各地区20 Kmの範囲において
A (Bahadurabad) 地区、B (Gabargaon) 地区は約2 Kmピッチ、
C (Sirajganj) 地区、D (Nagarbari) 地区は約1 Kmピッチにて
合計60測線の河川横断測量を行ない、各地区の架橋候補断面にお
いては平均500m間隔にて流速測定を行なり。

b) 基準点測量

河川横断測量及び流速測定のための船位決定に必要な陸上基準点
を必要密度に応じて設置する。

BANGLADESH



Scale 1:1,000,000

c) 水準測量

各候補地点ごとに、河川横断測量、水位標及び地形の高さの基準を得るため、既設のB.Mより直接水準測量により実施する。

d) 水位測定

各候補地点ごとに、河川横断測量の上流端、下流端及び流速測定
の各断面に同時水位観測を行なう。

4) 使用器材

河川横断測量：電波距離測定機 Hydrodist MRB-Ⅱ

音響測深機 SD-1500型改良測深機

陸上基準点：電波距離測定機 Tellrometer CA-1000

測角儀 トランシット TM-10B

水準測量：水準儀 オートレベル B-2

流速測定：流速計 電気流速計CM-1及びCM-2

2. 作業日程

表-1 に示されたとおりである。

3. 作業実施内容

1) 基準点測量

当初基準点の配置は、各架橋候補地点において架橋予定位置（各候補地点の中心）附近に1点、それより上、下流に1.0 Km離れた所に各1点ずつとして、計3個の基準点を設置する。それぞれの位置はテルロメーターとトランシットによる多角測量を行なって各候補地点毎に独立した局地座標で表示し、セカンド・ステージの段階において1ヶ所を選定された架橋計画地点についてのみ最寄の概設基準点に取付け、その位置を測地的に明確にする予定であったが基準点座の測量開始が約1ヶ月遅れたため、河川横断測量は当初計画の4地区を実施するためレーダー航法に変更せざるを得なかったので基準点班もこれにまつた作業を行なったため、当初計画は実施されなかった。

実施した作業内容は、1970～71年に撮影された航空写真より作成されたモザイク写真上で確認出来る点間の距離をテルロメーターで測定し、モザイク写真の縮尺を求めた。この距離測定は、Sirajganj 地区においては上流端、中心附近、下流端において実施され、Nagarbari 地区では上流端、中心附近で実施した。なおこの地区の下流端は洪水のため水面ばかりで確認出来る地点が発見出来なかった。

Table 1-1.

PROGRESS SCHEDULE (Control survey team)

1973

----- Planned

_____ Conducted

	July	August	September	October	November
Travel	<u>26-27</u> <u>28-27</u>			<u>10-11</u> <u>9-12</u>	
Preparation	<u>28-31</u> <u>20-31</u>	<u>4-5</u> <u>7-13</u> <u>14-22</u> <u>23-27</u>	<u>3-11</u> <u>3-2</u> <u>15-19</u>	<u>8-9</u> <u>5-8</u> <u>23-29</u>	
Shift	<u>1-3</u> <u>1-2</u>		<u>15-19</u>	<u>6-7</u>	
Survey		<u>6-13</u> <u>17-20</u>	<u>5-12</u> <u>15-19</u> <u>20-28</u>	<u>1-2</u>	
Calculation		<u>15-19</u> <u>31-2</u>	<u>15-17</u> <u>19-24</u>	<u>30-2</u>	
Reconnaissance		<u>20-23</u> <u>24-30</u>			
Weather hindrance		<u>12-15</u> <u>27-30</u>	<u>13-14</u> <u>20-21</u>		
Waiting		<u>10-12</u> <u>17-23</u>	<u>9-16</u> <u>17</u>		
Removal				<u>3-5</u> <u>3-5</u>	

1973

Table i-2. PROGRESS SCHEDULE (Leveling team)

----- Planned
 _____ Conducted

	July	August	September	October	November
Travel	26-27 26-27			15-17	
Preparation	28-31 28-31	1-5 1-5		6-9	
Shift		14-20 14-20	3-4 18-19	5-7	
Leveling		6-8 15-21 20-20	5 16-16 28-29		
Reconnaissance		3-4			
Weather hindrance		16-18 17-17	2-2 15-17	30-2	
Waiting					
Removal				3-5	

→ On and after 9 August, the same as the control survey team.

Table 1-3.

PROGRESS SCHEDULE (Cross-sectional survey team)

1973

----- Planned
 _____ Conducted

	July	August	September	October	November
Travel	26-27 28-29				2-3 4-5
Preparation	29-30	1-3 4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27 28-29 30	1-3 4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27 28-29 30	1-3 4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27 28-29 30	1-3 4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27 28-29 30
Shift					
Construction of marks					
Preparation of sheets					
Sounding					
Flow velocity measurement					
Weather hindrance					
Waiting					
Removal					
Refloating work, Clearing up remaining business, Translation					

又、Gabargaon、Bahadurabad 両地区は互に近接しているため合併させて4ヶ地点で距離測定を行なった。(資料-1参照)

2) 水準測量

当初各架橋候補地点において、上流端、下流端及び架橋予定位置附近に各1点、計3地点に水位標を建設し、標高は最寄りの概設水準点より直接水準測量により実施、決定する予定であったが、実作業は8月上旬シラツガンジ基地へ移動後、同附近の概設水準点調査を行なった結果2地点を確認し、この2点間の検測により同地区上流端までの水準測量を行なった。それ以後約1ヶ月間現地での行動手段もなく、カウンターパートの同行がないので現地民よりの情報入手が困難なこと、さらに移動基地用の船の到着が遅れたこと等の理由により、作業予定日数の半分以上を経過してしまつたために水準測量を中止し、その分の測員を基準点班の応援に振りむけた。

3) 水位測定

当初各候補地点の上流端、下流端及び流速測定各断面附近に水位標を設置し、同時水位観測を行なり予定であったが、水準測量が行なえなかつたため、ジャムナ河に設置されている、BWAPDAの水位観測資料の内20ヶ所の資料を使用し解析にあつた。

この資料はすべて、P.W.Dの基準にて連結されているが、河の水位の上下がはげしいため、月平均5回水位標の移動をしている。この水位標は竹製の簡易水位標であり移動のたびに仮B.Mより水準測量を行っている。

解析には原資料がベンガル語のため英語に翻訳し、フィートをメートルに換算、使用水位標は測量時における近くの2地点を平均し使用した。(資料-2参照)

ジャムナ河に設置されている各水位標について1973年9月～10月における水位図を資料-2内の図に示す。これによると一概には言えないが、上流から下流になるにしたがって水位が減少する傾向にある。これはDhaleswari河等の派川への分派、河道貯留の他、洪水水位が堤内地盤よりも高くなる結果、溢水はんらん量が大きいためであると考えられる。ジャムナ河右岸には堤防が築造されているが、大部分の支川の合流点は閉じられていないだけでなくバック堤もないため、本川水位の上昇による堤内地へのはんらんは左岸堤ではないにせよかなり大きいものと考えられる。

4) 河川横断測量

a) 調査期間

Sirajganj 地区：1973年 9月18日～ 9月26日

Nagarbari 地区：1973年 9月27日～10月 5日

Bahadurabad 地区：1973年10月 8日～10月15日

Gabargaon 地区：1973年10月16日～10月19日

b) 調 査 船

神 峰 丸 位 置 測 定

スピードボート 水 深 測 量

c) 使用 機 械

電波測位機：Hydrodist MRB-Ⅱ 精度±1.0 m

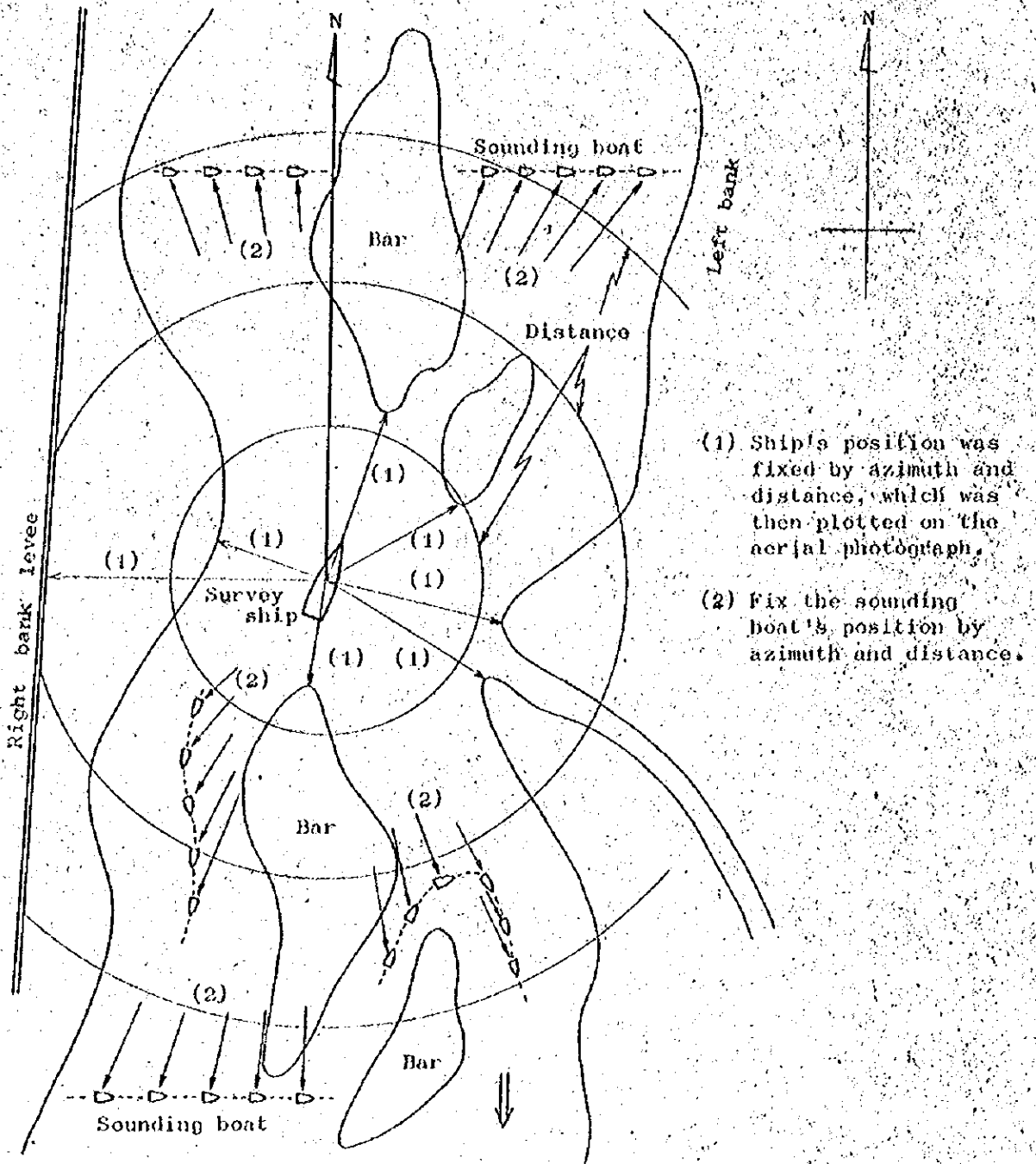
測 深 機：SD-1500型改良測深機 精度±0.1 m

但し、実際には作業変更を行なったため、電波測位機にはレーダーを使用し、又測深機には現場が浅瀬、浮遊物等が多かったため、RS-61型（三洋測機製、精度±0.1 m）を使用した。

d) 測 定 方 法

当初電波測位機により、各架橋候補地点（4地点）について合計60測線を実施する予定であったが、基準点作業が遅れたため、レーダー航法にて実施する事になった。このレーダー航法は図-2に示す様に測量船（神峰丸）はアンカーをした後、あらゆる点の方位と距離を測定（一部六分儀使用）し、航空写真上に測量船の位置を決定し、その後測深船（スピードボート）の方位と距離を測定し、

Fig. 2. Cross-sectional river survey by Radar navigation method.



- (1) Ship's position was fixed by azimuth and distance, which was then plotted on the aerial photograph.
- (2) Fix the sounding boat's position by azimuth and distance.

測深船の位置を決定した。このため位置精度は落ちたが、河岸線の状況、洲の状況等はレーダーを使用したので十分に把握出来た。

又測量船の移動がパイロット等の不案内で座礁等したため、測深船にはスピードボートを使用したので洲の間等浅部までの調査が出来た。

測量した測線は上流2地点 (Bahadurabad Gabargaon) については約2 Kmピッチ、下流2地点 (Sirajganj Nagarbari) については約1 Kmピッチにて合計71測線の横断測量を行ない、洲の間等補測もあわせて行なった。

e) 成果資料

測得した水深より次の成果を作成した。

- (1) 深 浅 図 $1/20,000$ 等深線間隔 $2.5 m$ (資料-3
(2) 河川横断図 H: $1/20,000$ V: $1/100$ 参照)

f) 測定結果

資料-3 に示す様に Bahadurabad 地区14本、Gabargaon 地区14本、Sirajganj 地区21本、Nagarbari 地区23本の河川横断測量を行ない、横断図を作成した深淺図中 \rightarrow は主流と思われる航路になっている。

$\bullet\rightarrow$ は支流で Ferry 等が利用している。又新に所々旧河川と思われる深

部が見りけられる。

5) 流 速 測 定

a) 調 査 期 日

Sirajganj 地区 (SC-1~8) 1973年 9月24日

Nagarbari 地区 (NC-1~11) 1973年10月 4日

Bahadurabad 地区 (BC-1~7) 1973年10月11日

Gabargaon 地区 (GC-1~9) 1973年10月17日

b) 調 査 船

神 峰 丸 (SC-2, NC-2, GC-9 の 3 地点)

スピードボート (上記以外の地点)

c) 測 定 機 械

東邦電探製 (1) CM-2 型発電式流向流速計

測定範囲 流速 0.08 ~ 3.00 m/sec

流向 磁北 0 ~ 360°

(2) CM-1-A 型発電式流速計

測定範囲 流速 0.30 ~ 8.00 m/sec

ただし、実際には流速が 3 m/sec 以下であったため、測定はすべて CM-2 型流向流速計によった。

d) 測定方法

CM-2型流向流速計により各地区の中央部を河川横断面方向に約500mピッチで、各地点0.5, 1, 2……, 10m以下2m毎に流向、流速を測定した。

なお、測定要領は流速が大であるため、図-3のCM-2型流向流速計による測定要領図に示したように、神峰丸では、本船アンカーの先に滑車をつけて流速計を上下させ、流されるのを防止した。またスピードボートでも、同様にアンカーからロープをとることにより、所定深度の流速が測定できるようにした。

e) 成果資料

測得した流向、流速から次の成果品を作成した。

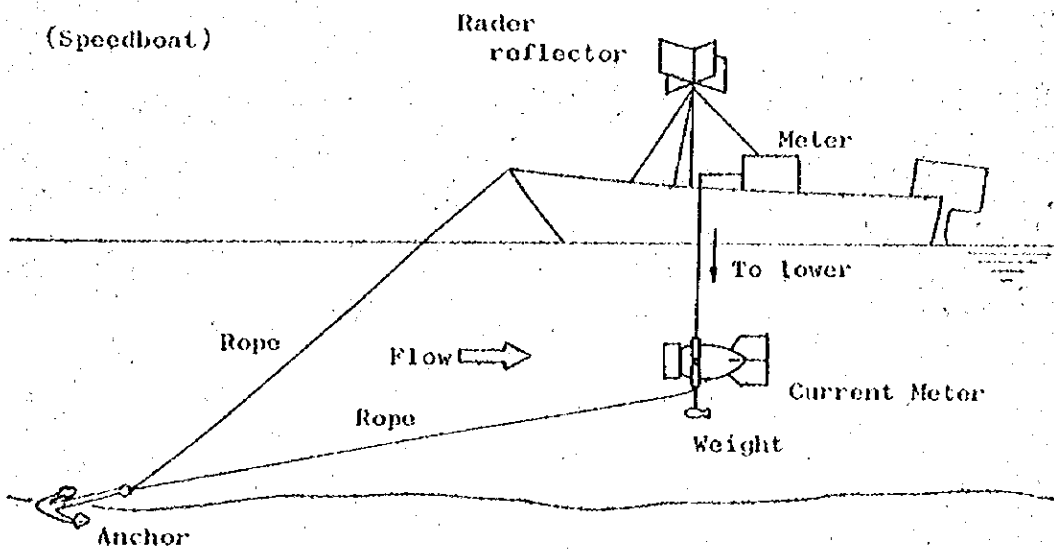
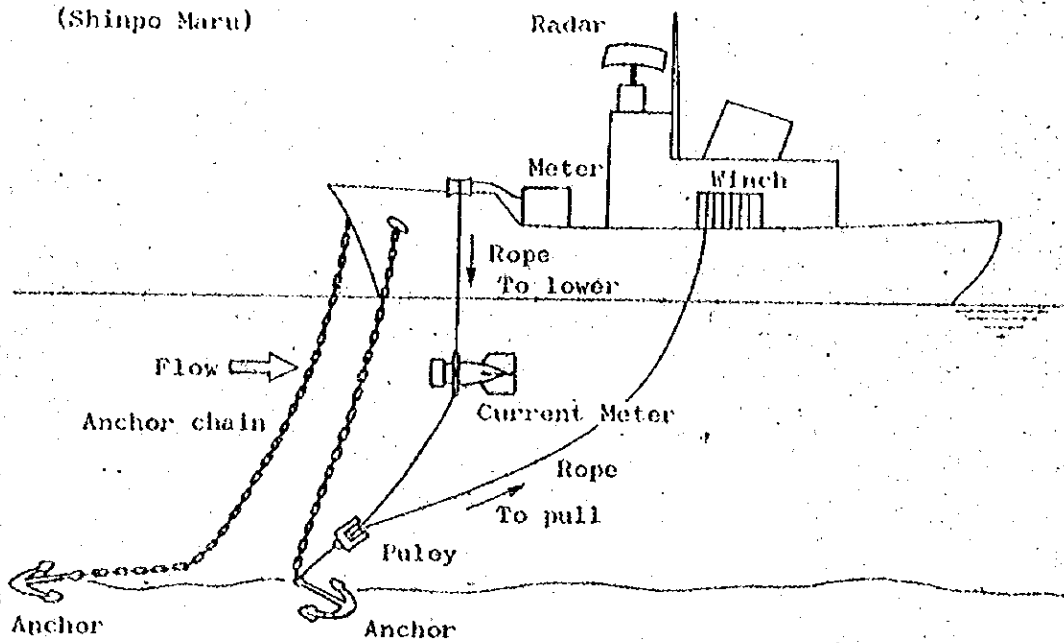
- (1) 流向、流速測定記録
- (2) 各地点の流速鉛直分布図 (資料-4参照)
- (3) 各地区の流速断面分布図
H: 1/20000 V: 1/100

f) 測定結果

(1) Srajanj 地区

主流は東岸に沿って南下しており、最大流速はSC-2地点の水面下2m層で、2.03 m/secが測得された。東岸の傾斜は鋭く、水深も深い。西岸に向うにしたがい、水深は浅くなり、流

Fig. 3. Observation of Flow Velocity & Direction with CM-2 Type Current Meter



れも弱くなっている。なお、河底上 2 m 付近まで 1.0 m/sec の流速が得られている。

(2) Nagarbari 地区

最大流速は N C - 2 地点の表層で 1.50 m/sec が測得されているが、この地区の流れは 3 つの流路に別かれている。

船の航路にもなっている東側が主流となっているが、西側でも 1.40 m/sec の流れを示し、西岸の傾斜も鋭く、岸が削り取られている様子がうかがえた。中央の流路も 1.30 m/sec の流れを示し、同流路の西岸を侵蝕している流況を示している。

(3) Bahadurabad 地区

主流はほぼ中央部から西岸寄りにみられるが、最大流速は断面のほぼ中央部の B C - 4 地点で 1.59 m/sec が測定されている。

(4) Gabargaon 地区

主流は船の航路にもなっている東岸に接して流れており、測得最大流速は 1.62 m/sec であった。しかし、流路は中洲のため 2 分されており、上流から流れてくる水草の列はむしろ西側の流路に帯状になって南下し、1 Km 程下流の地点が水草のたまり場となっている。

以上一般的な流況は、地形に沿った流れを示しているが、河床や中洲の影響と思われる湧昇現象が到る処でみうけられた。また反流や渦

流を示しているところも多く、流速は河床付近まであまり減少することなく、底上60 cm程度から急激に減少している。なお、流れは定常流ではなく、±20 cm/sec 程度の変動が常にあるようである。中洲は少しずつ変動しており、また護岸もないため屢々洪水を起こし、岸線が変っていくなどのためジャムナ川の主流や流況を正確に把握することは困難であった。

4. 次期調査（乾期）への課題

1) 乾期における現地踏査

今回の調査では雨期のため程んど現場踏査が出来ない状態であった。そのため乾期における Dacca ~ 現場までの交通手段、現場内の調査手段、宿舍、水等の調査を行ない、次回の計画準備をしなければ作業の計画を進めることはむずかしい。

2) 準 備

基準点、水準、地形測量班は乾期の始まる 10 月中旬より現場に入るとすれば準備のため 9 月中旬に出発し、機械は 8 月中旬までには日本より発送しなければ作業を順調に進める事はむずかしい。深淺測量班も 10 月中旬には出発し、11 月中旬頃より作業を開始する事が望ましい。これは 3 月には増水期に入るので作業期間は 2 月一杯と書かれているためである。

3) 測量船の使用について

今回日本より測量船を回航したが、小型船のため回航日数がかかること。又雨期に於いても度々座礁している状態なので乾期の調査には使用出来ない。BIWTA には測量船があるので事前に政府間による借

入が望ましい。

4) カウンターパートの調査団随行

現場作業に於いて、位置及び地名等の確認など、現地民よりの情報収集が必要となるが、地方では英会話を話す者が少なく、カウンターパートの随時同行が望まれる。このカウンターパートには実作業にあっている、BIWTA、BWAPDAの技術者が望ましい。

5) 日本人医師の派遣

現在バングラデシュ国には医師及び医薬品が不足しており、地方では病院は全く無い状態であり、緊急の事態を考えると日本からの医師派遣は現場作業に於いて必須条件であると思われる。

6) 物資の現地調達

現在物資が程んどなく、あってもブラックマーケットで購入しなければならぬが大変高価であり、従ってすべての物資は日本国内で十分に準備する必要がある。又燃料も現場では購入出来ないため輸送方法等を十分に検討する必要がある。

7) 宿舎、水、他について

次回では Sirajganj office より現場までの距離も遠く離れるので、

宿舎は簡単なプレハブ住宅か大型テントを使用したキャンプ等を考えなければならぬ。これには水の補給及び大型タンクの設備、機械、食料等の保管、電気、大型冷蔵庫の設備（必須）等団員が生活するのに必要な準備が行なわれる事が望ましい。又治安状態も悪化しているのでPolice の護衛は必要である。

資 料 一 1

基 準 點 測 量 資 料

TELLUROMETER (CA-1000) FIELD RECORD

SITE	DISTANCE	MEAN DISTANCE
(SIRAJGANJ)		
S-1 -- S-5	1) 7426.516 ^M 2) 7426.504	7426.509 ^M
S-6 -- S-3	1) 2203.582 2) 2203.573 3) 2203.507	2203.554 ^M
S-6 -- S-5	1) 3329.146 2) 3329.194	3329.170 ^M
S-7 -- S-8	1) 1672.693 2) 1672.732 3) 1672.741	1672.722 ^M
S-8 -- S-9	1) 2345.317 2) 2345.302	2345.310 ^M
S-10 -- S-11	1) 2036.746 2) 2036.713	2036.730 ^M
S-11 -- S-12	1) 1196.554 2) 1196.512 3) 1196.497	1196.521 ^M
(NAGARBARI)		
N-1 -- N-2	1) 1783.036 2) 1782.988	1783.012 ^M
N-3 -- N-4	1) 1202.155 2) 1202.167	1202.161 ^M
N-5 -- N-6	1) 1745.998 2) 1746.001	1746.000 ^M
(BAHADURABAD)		
G-1 -- G-2	1) 1401.202 2) 1401.139	1401.171 ^M
G-1 -- G-3	1) 4379.158 2) 4379.125	4379.142 ^M
(GABARGAON)		
G-4 -- G-5	1) 3962.041 2) 3962.026	3962.034 ^M
G-6 -- G-7	1) 2819.494 2) 2819.476	2819.485 ^M













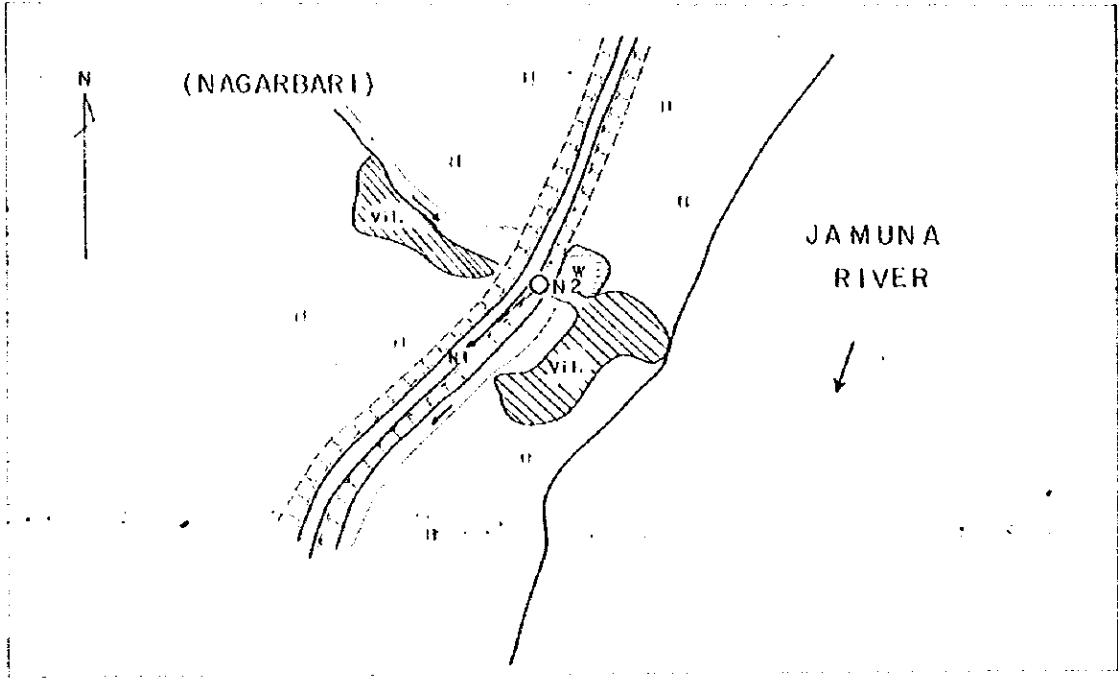
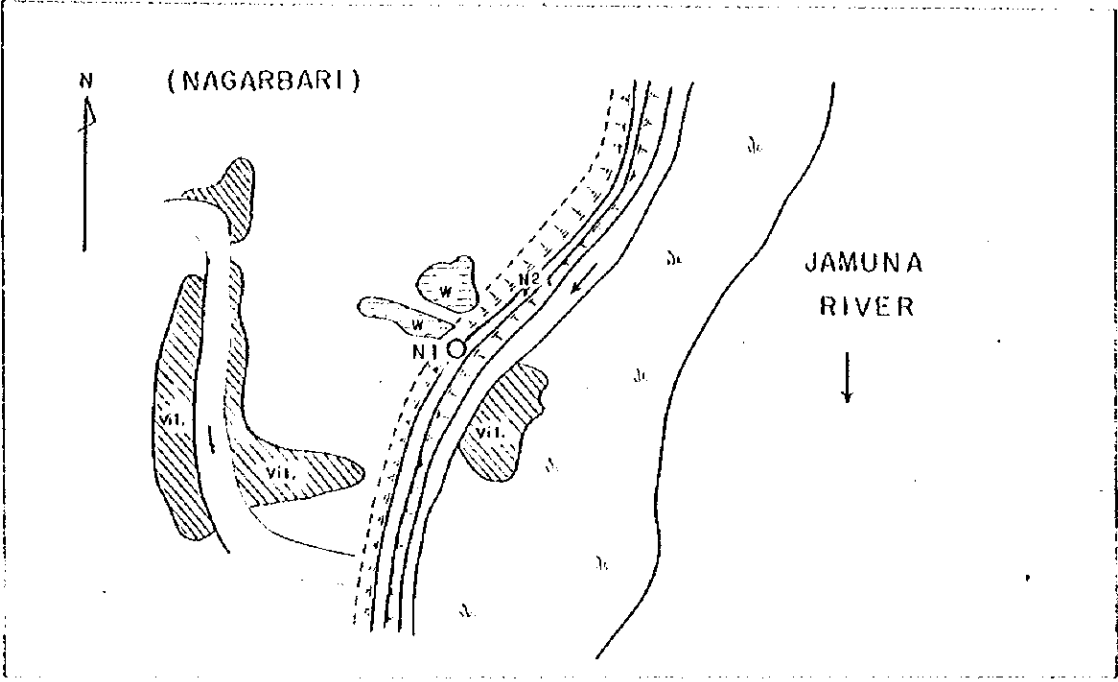


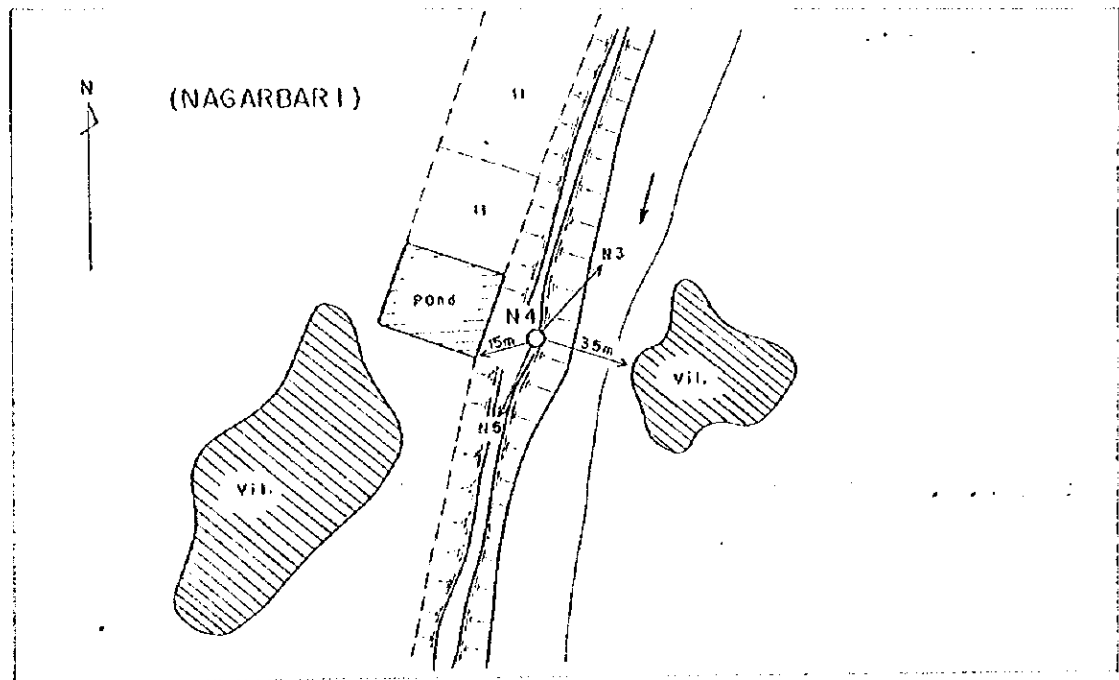
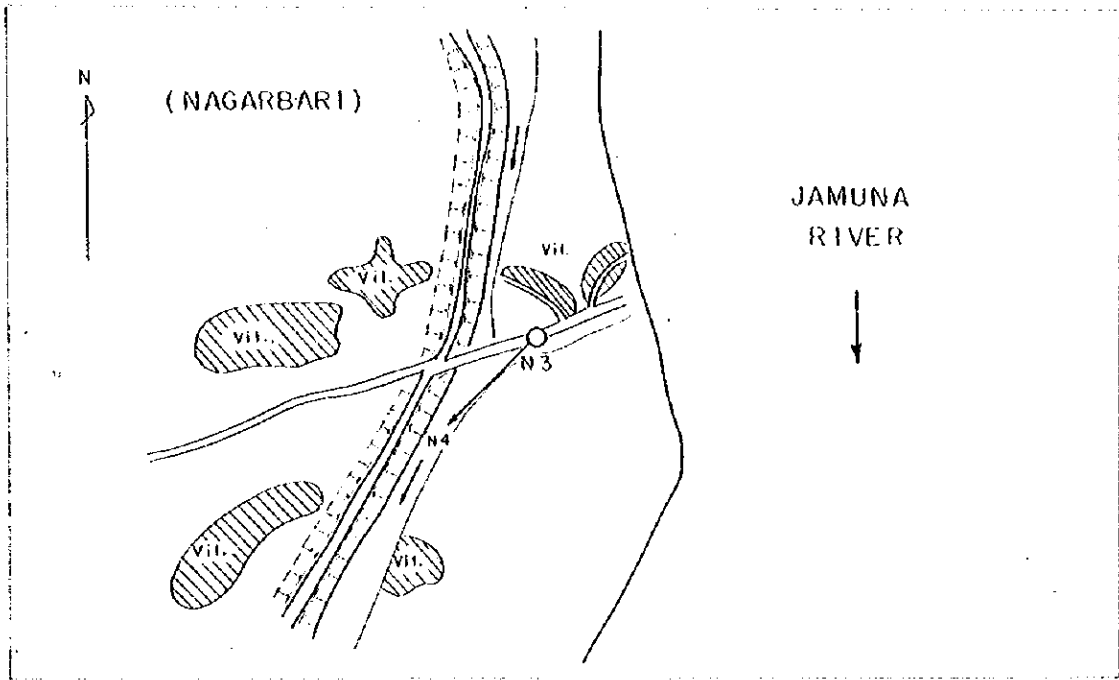


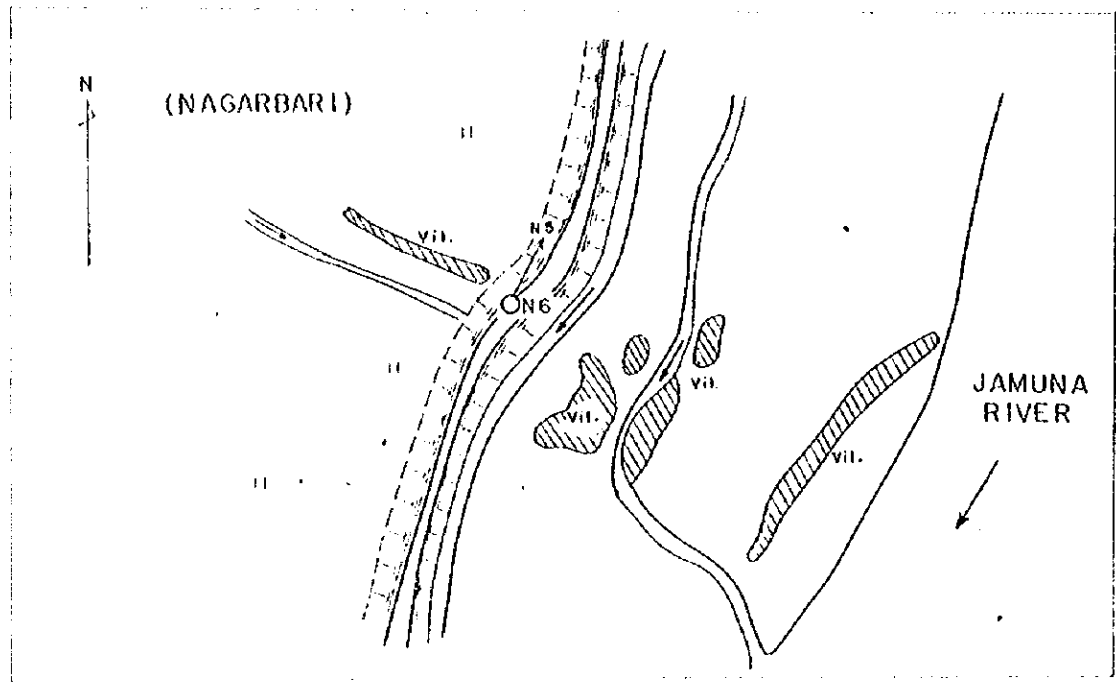
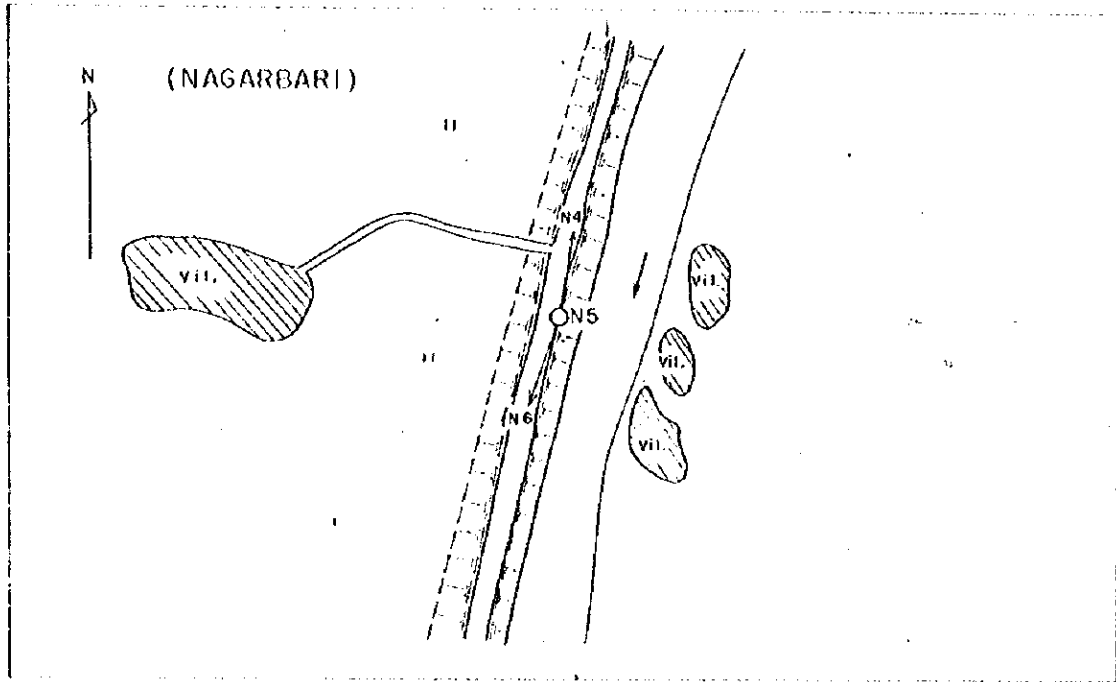


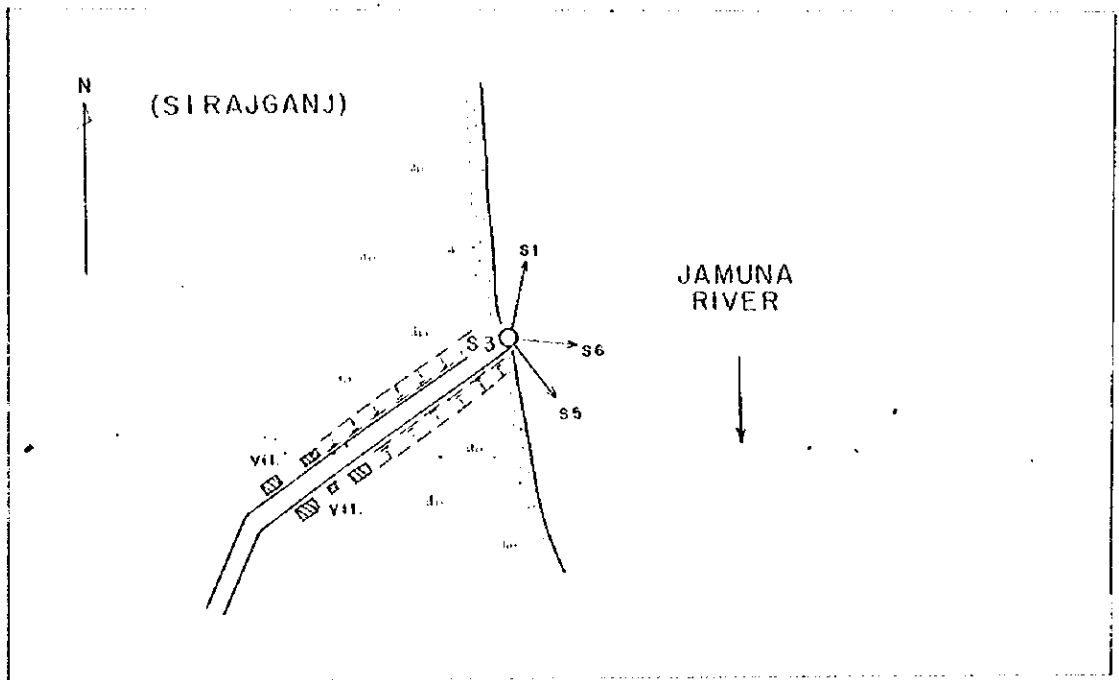
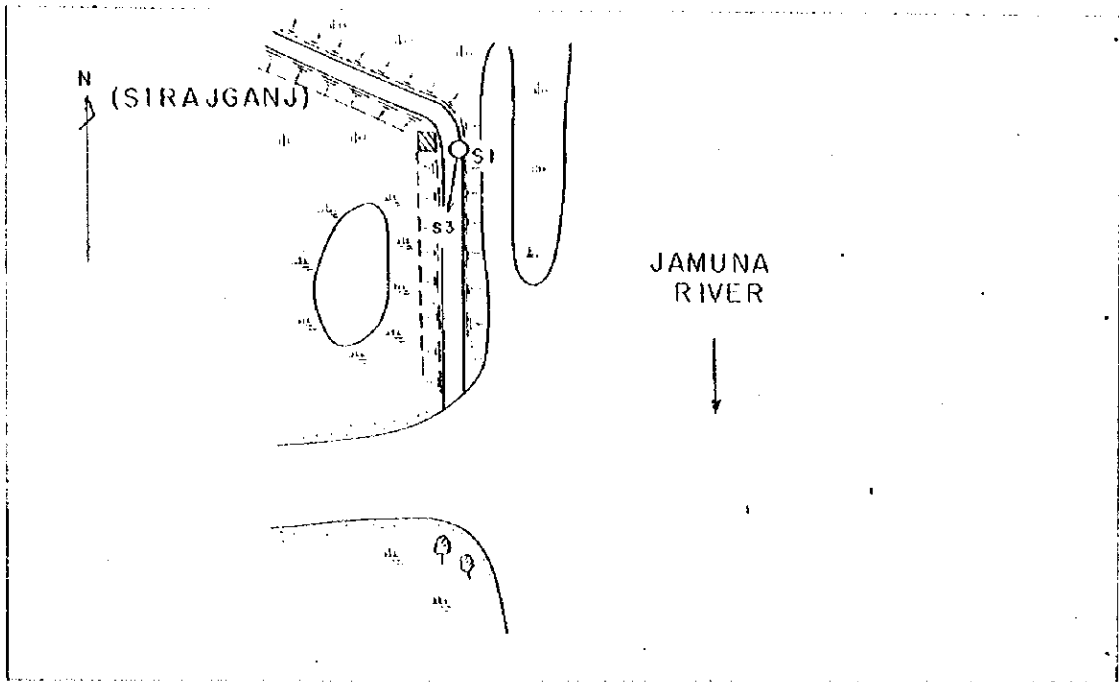


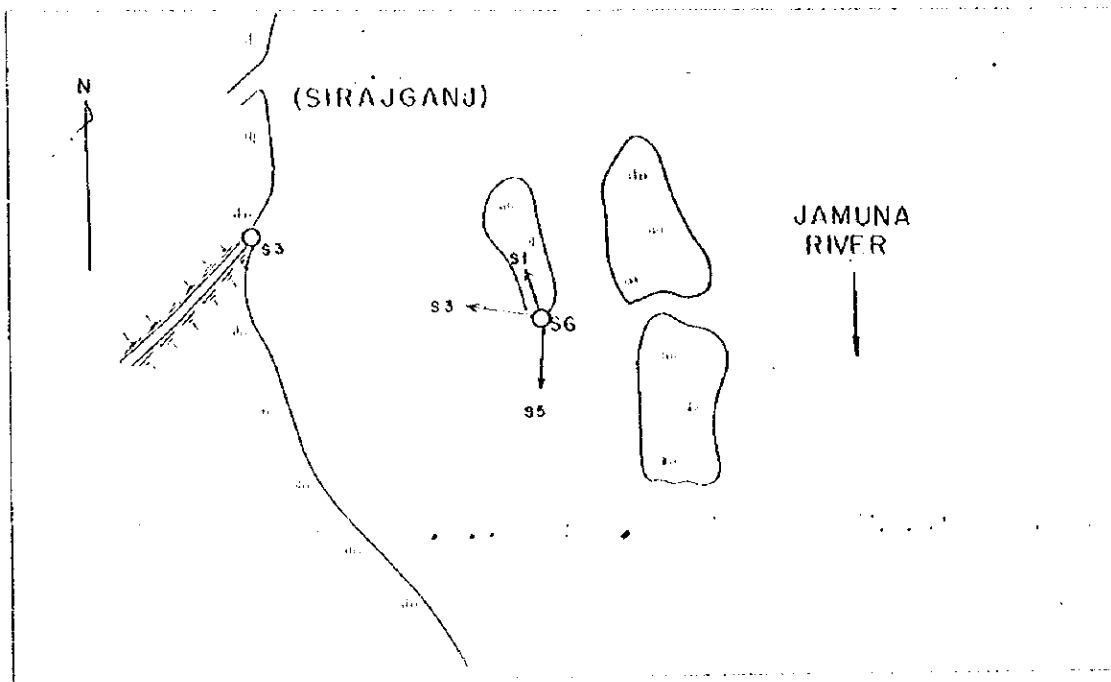
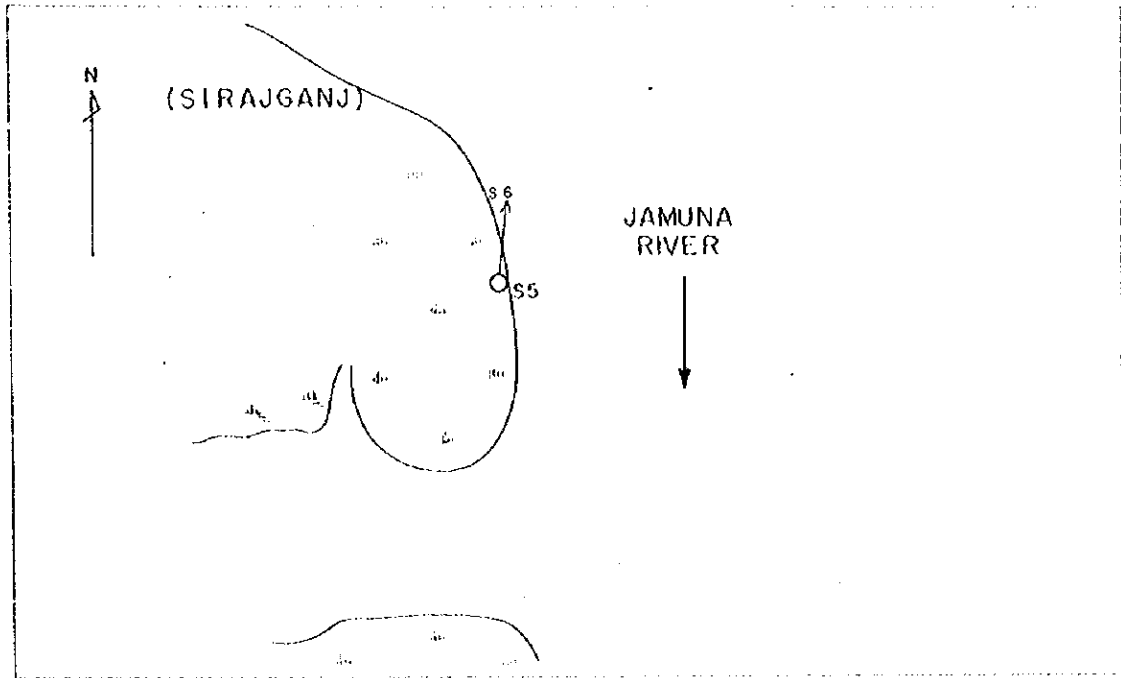
Location of Main Station

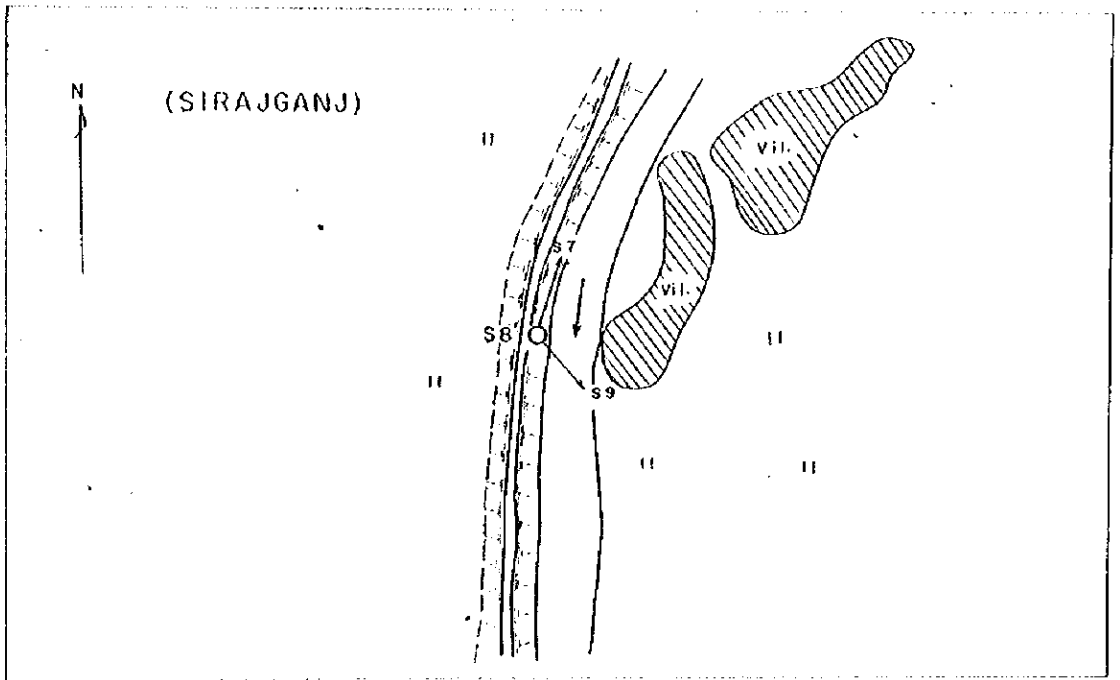
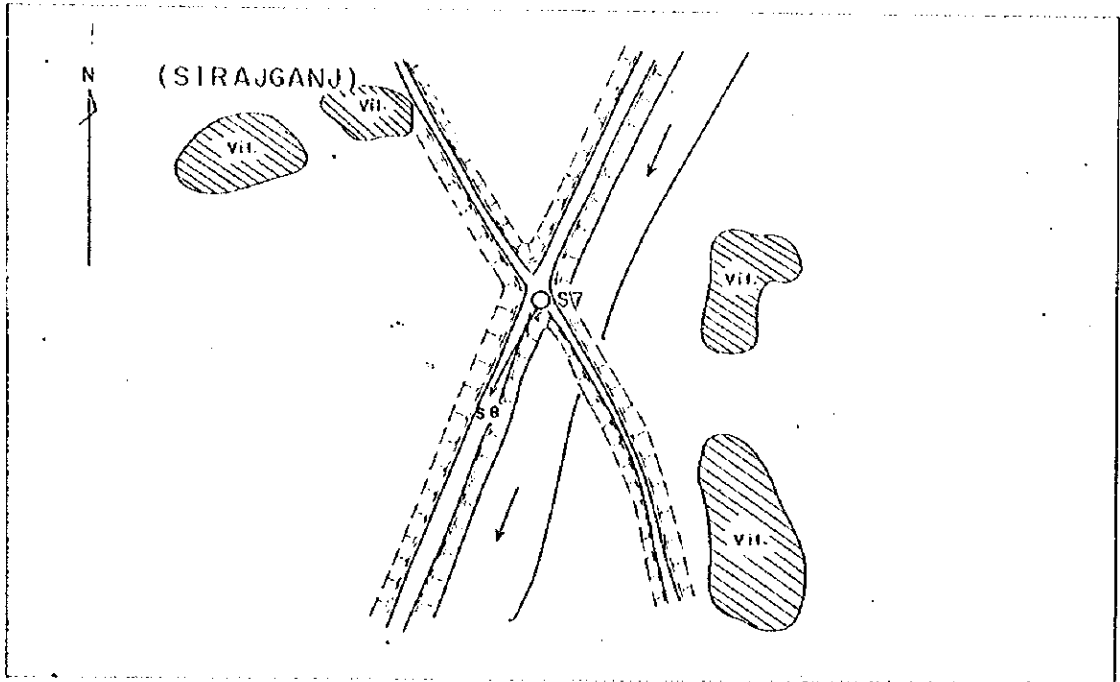


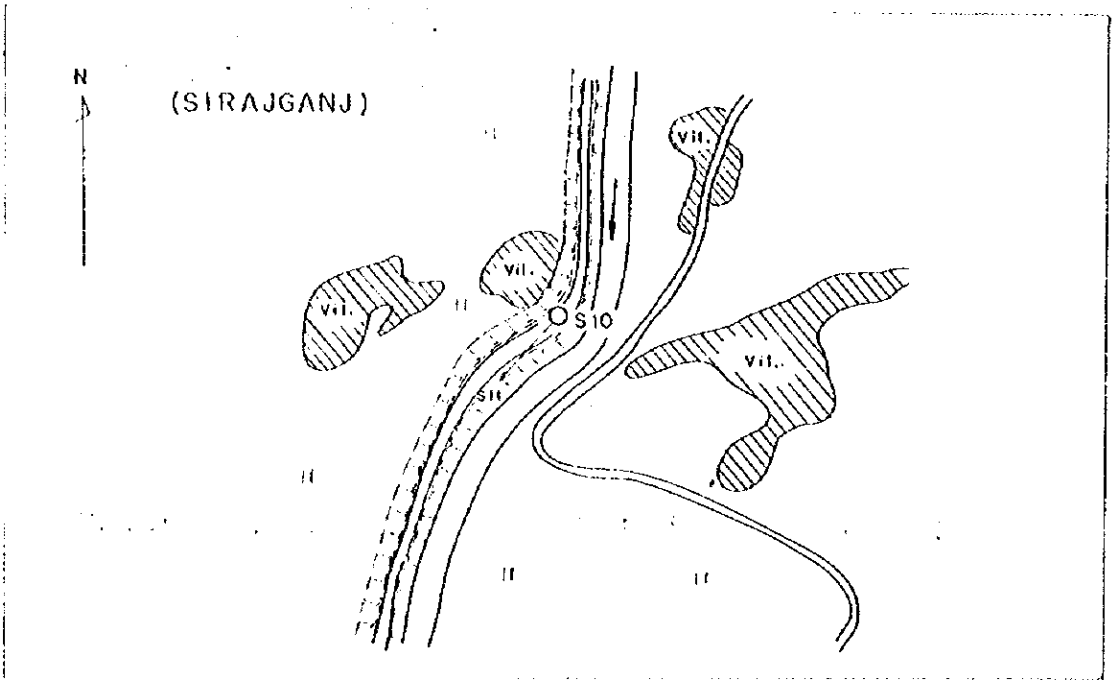
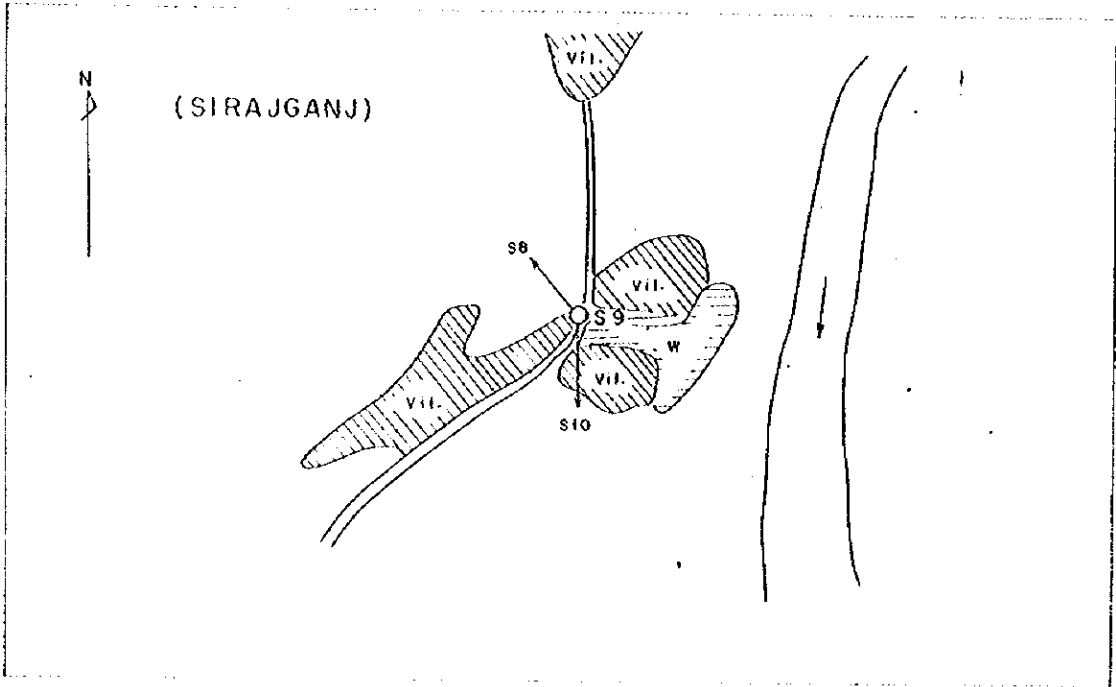


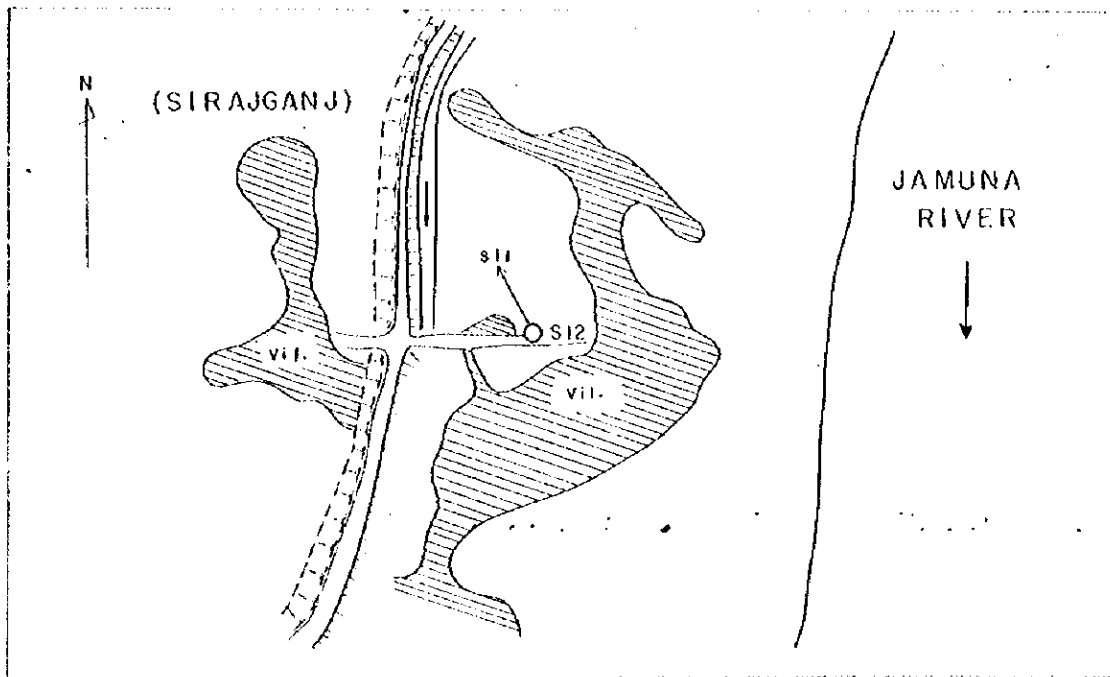
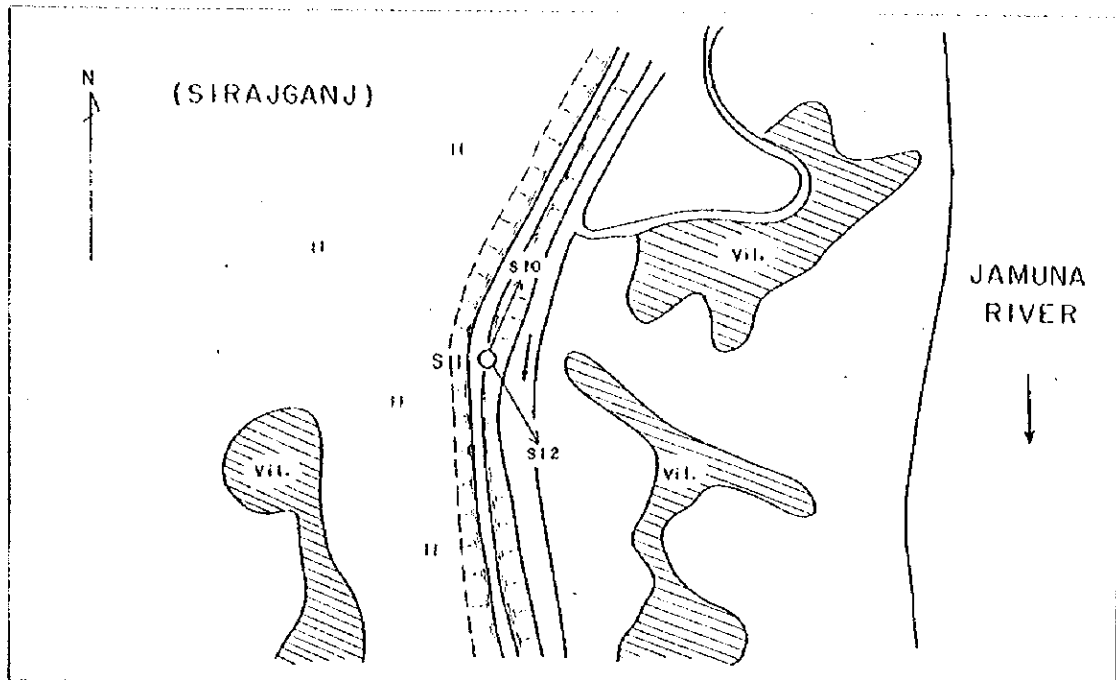


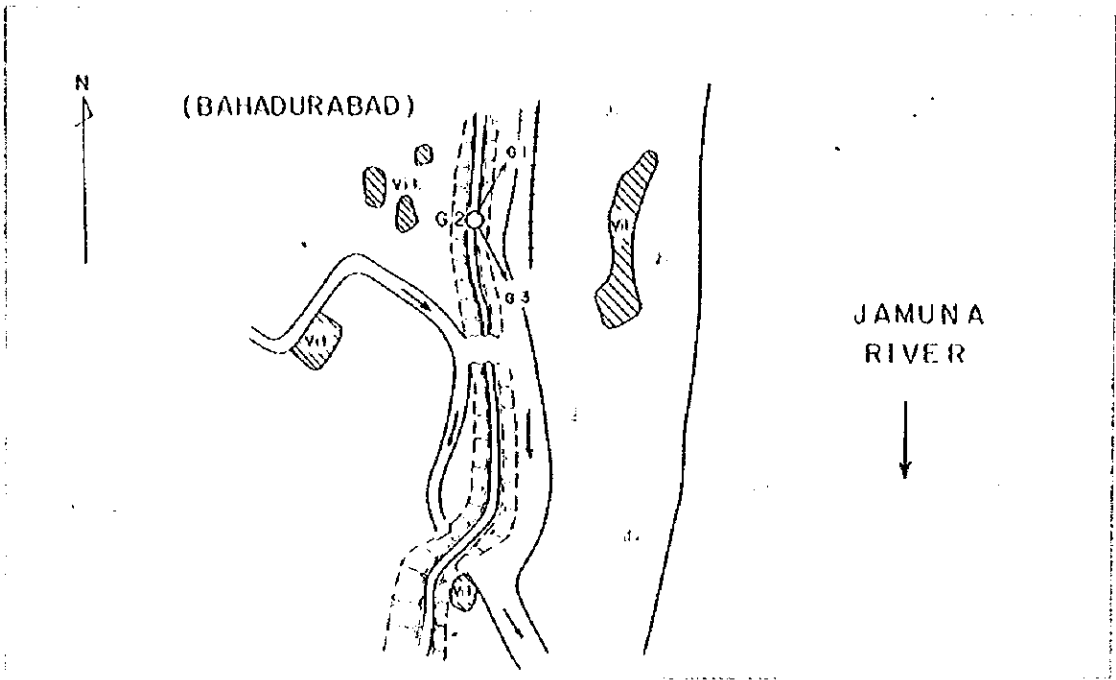
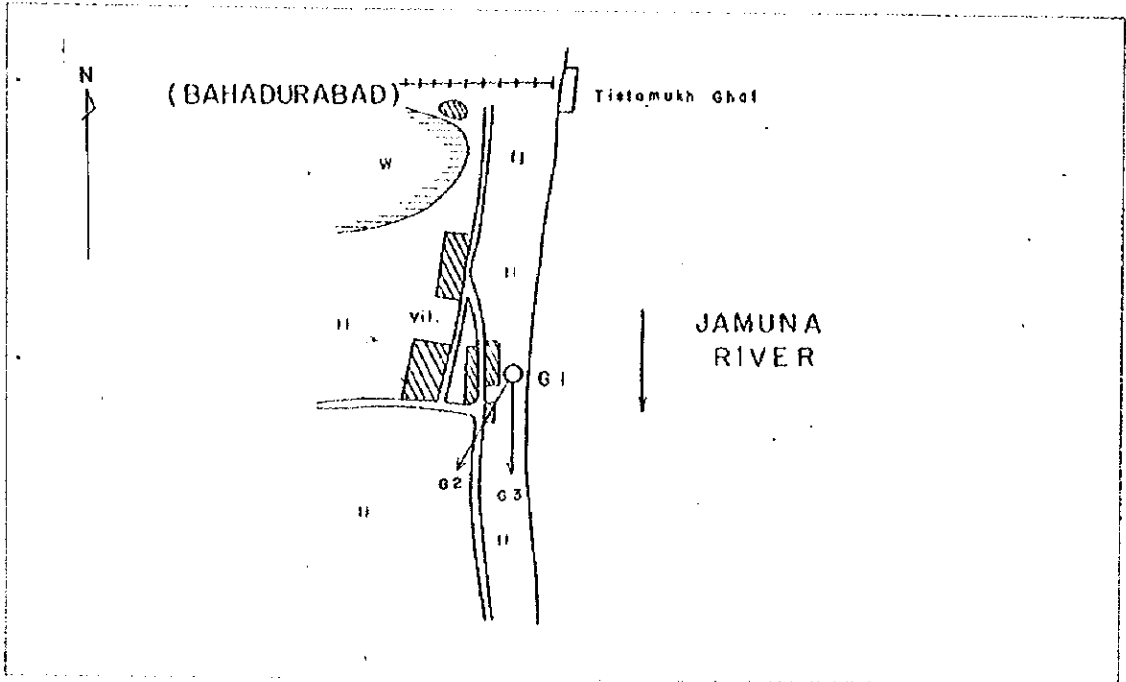


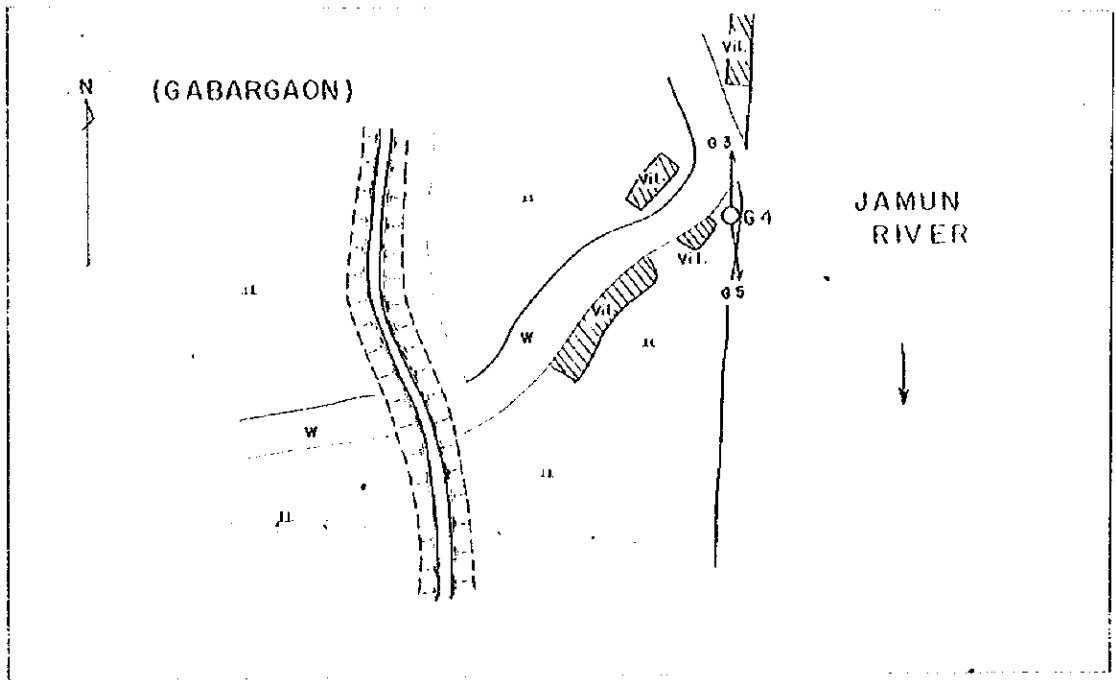
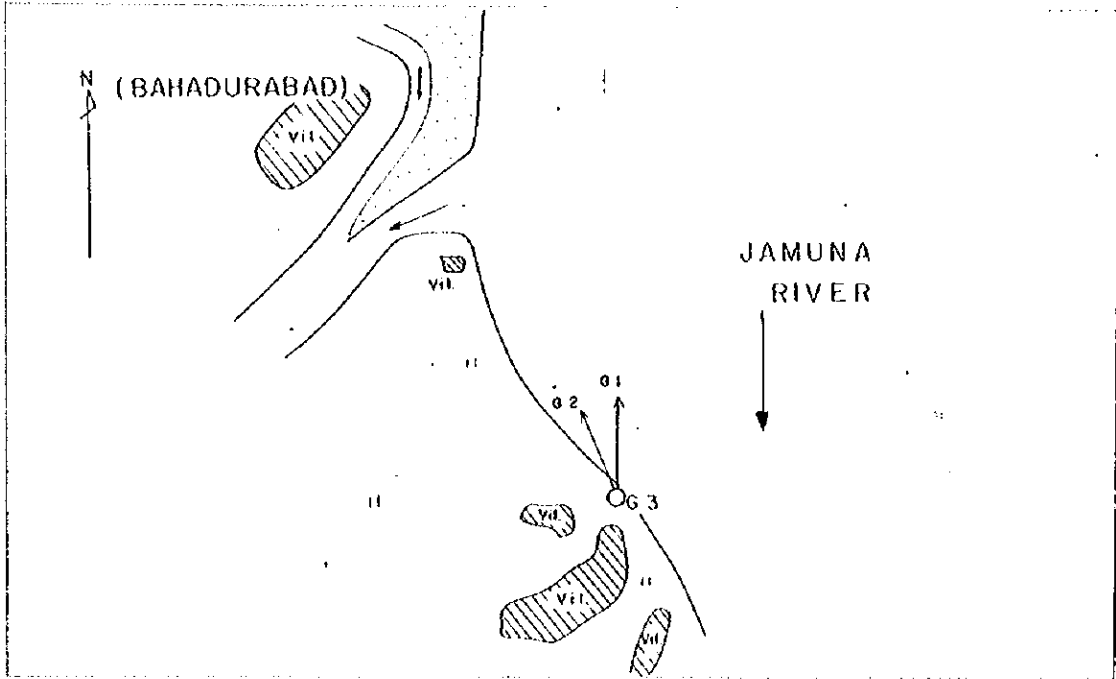


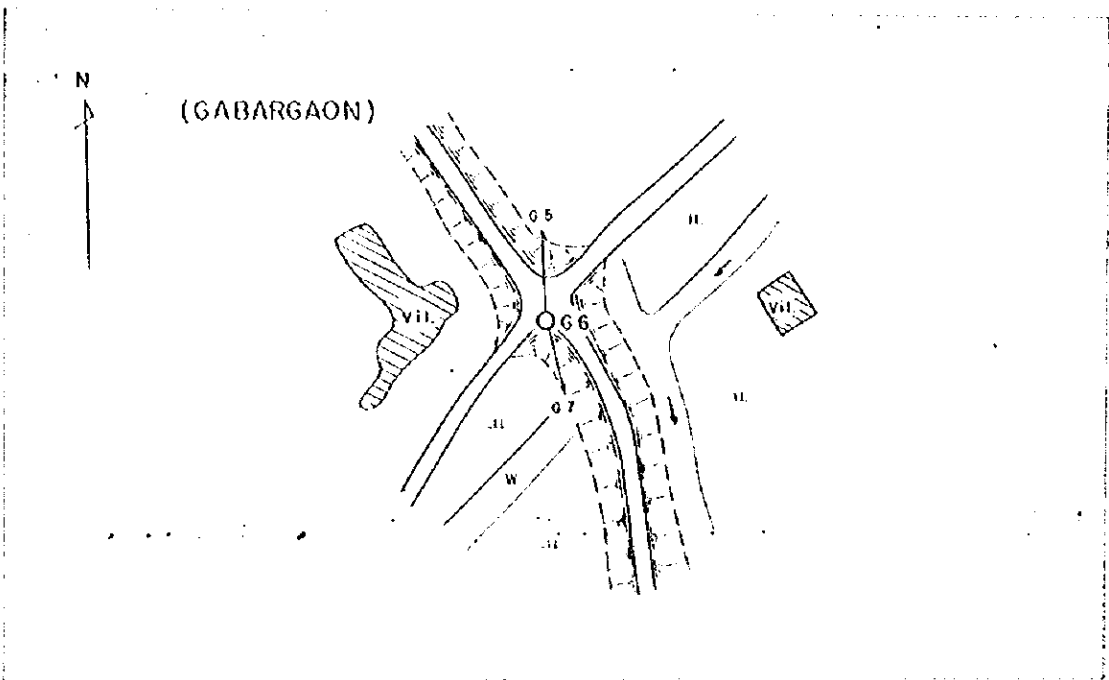
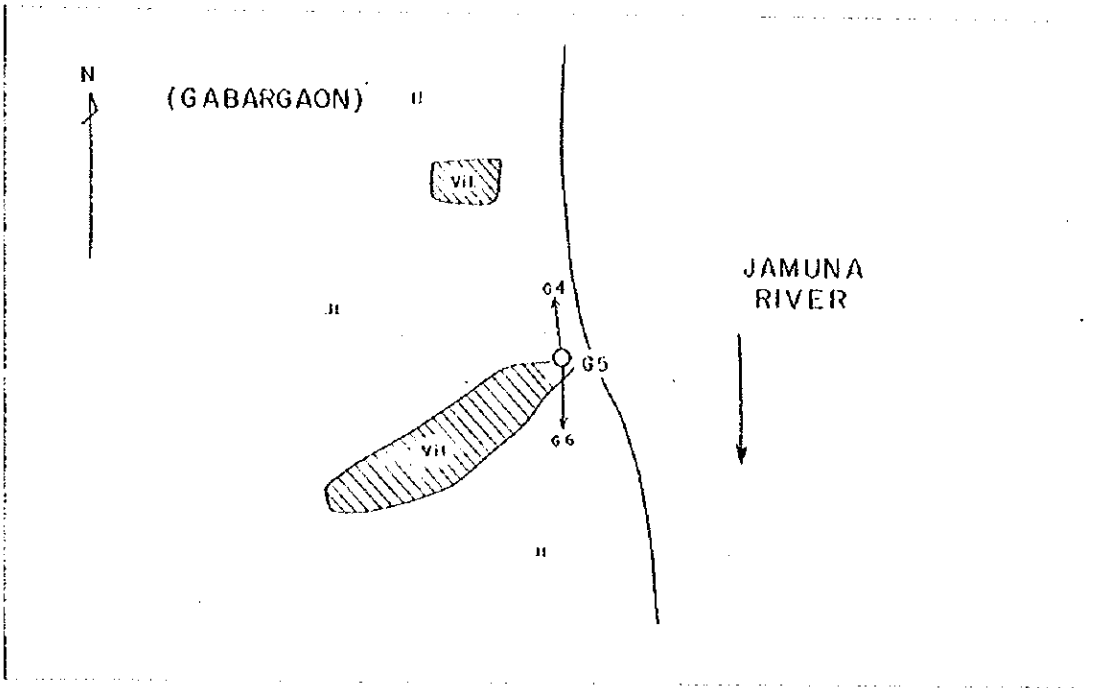


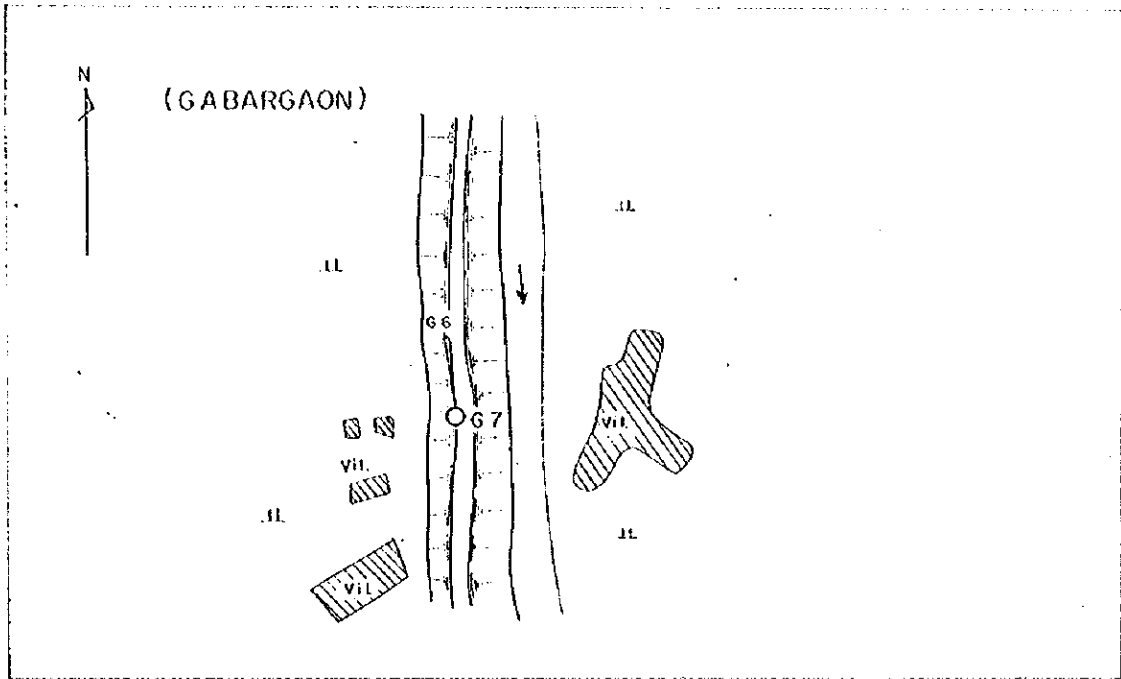












資 料 一 2

B W A P D A

水 位 観 測 資 料

1 9 7 3 年 9 月 ~ 1 0 月

REGULAR GAUGES FOR 1973

	RIVER AND GAUGE STATION	CO-ORDINATES	
		LATITUDE	LONGITUDE
	<u>J. A. M. U. N. A</u>		
1	DAKATIAPARA	-	-
2	DELUABARI	25-06-52	89-36-41
3	PROJAPOTI (PRAJAPATI)	-	-
4	DIGHALKANDI (DIGALKANDI)	-	-
5	SUKNAGARI (MUKONGARI)	24-52-18	89-43-22
6	MILANPUR (MILONPUR)	24-49-18	89-38-30
7	CHARBHURUNGI (CHORBURUNGI)	24-38-21	89-41-09
8	KALIPUR	24-27-33	89-49-47
9	PURBAMAHONPUR (EAST MOHANPUR)	24-24-01	89-43-30
10	NALCHIA (NALSIAARCHOR)	24-24-38	89-46-40
11	AFZALCHAR (CHORRAFZALPUR)	24-21-49	89-46-00
12	NAKEFATARCHAR (NAKFATCHOR)	24-21-40	89-44-26
13	DELUA (BELKUCHI)	24-18-00	89-43-00
14	DIGHALICHAR (DIGULIARCHOR)	24-15-23	89-54-11
15	CHANDPUR (CHANPUR)	24-14-31	89-42-13
16	KANDIPARA (SHAHIPUR)	24-14-50	89-43-12
17	BAKTARPUR	23-58-24	89-40-09
18	CHARBHARENGA (CHORVARENGA)	23-59-02	89-43-32
19	BAMUNDIA (BRHAMODI)	-	-
20	GONOPOTADIA (GANAPATDIA)	23-54-57	89-40-04

LEGEND

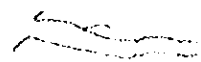
RAILWAYS ---

RIVER ---

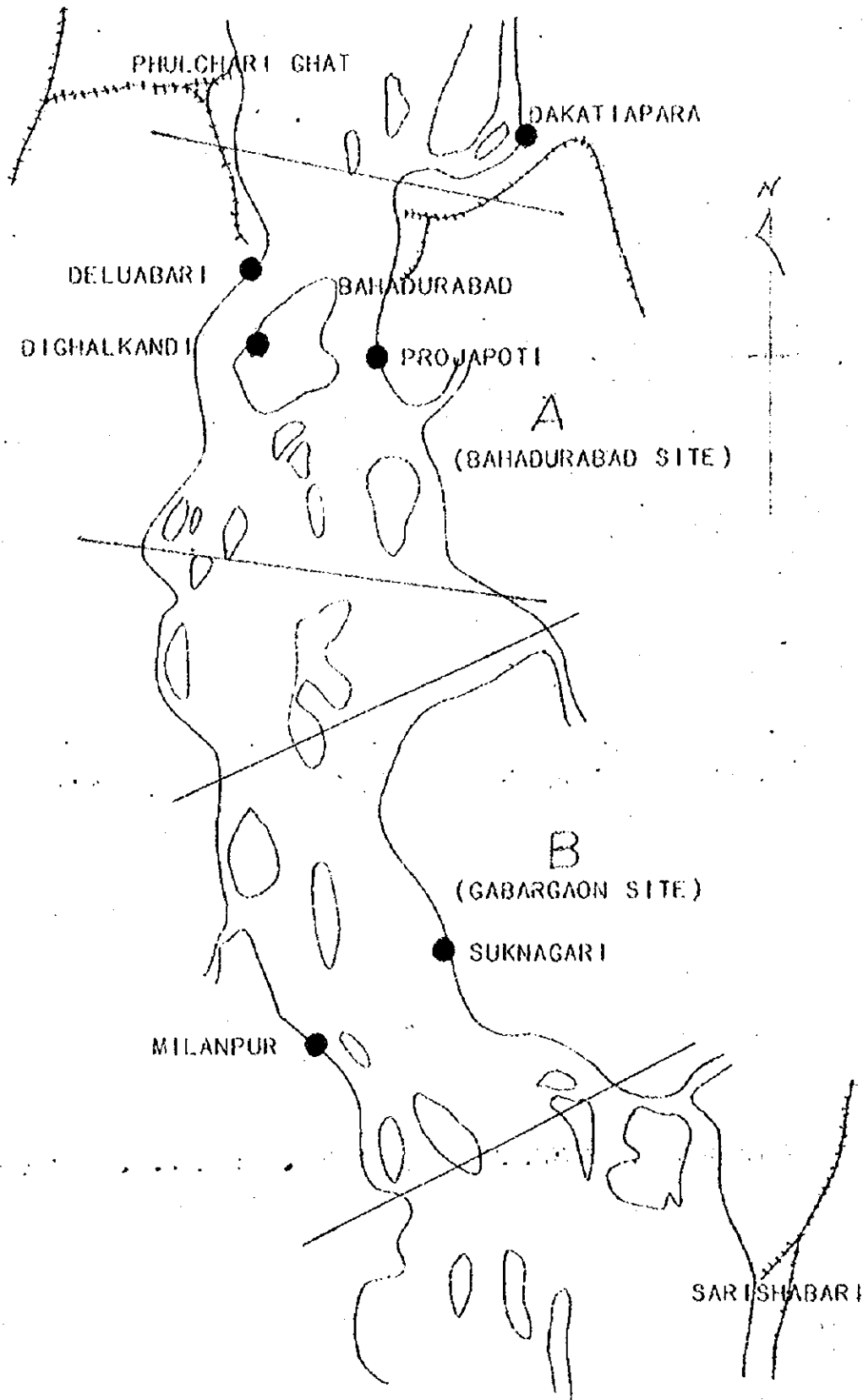
GAUGES ---

HYDROLOGY GAUGES ---

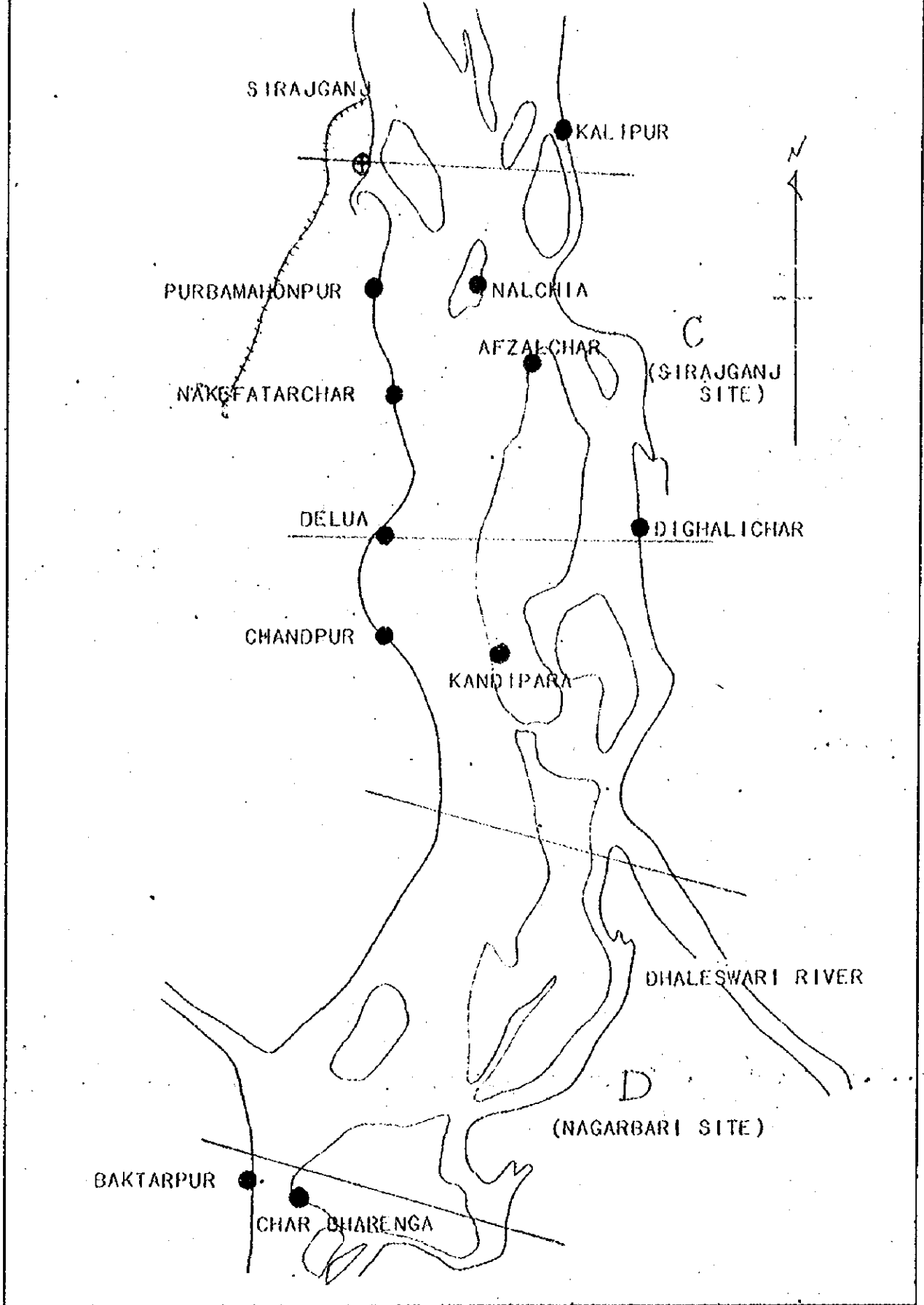
RAILWAYS



LOCATION OF GAUGING STATIONS

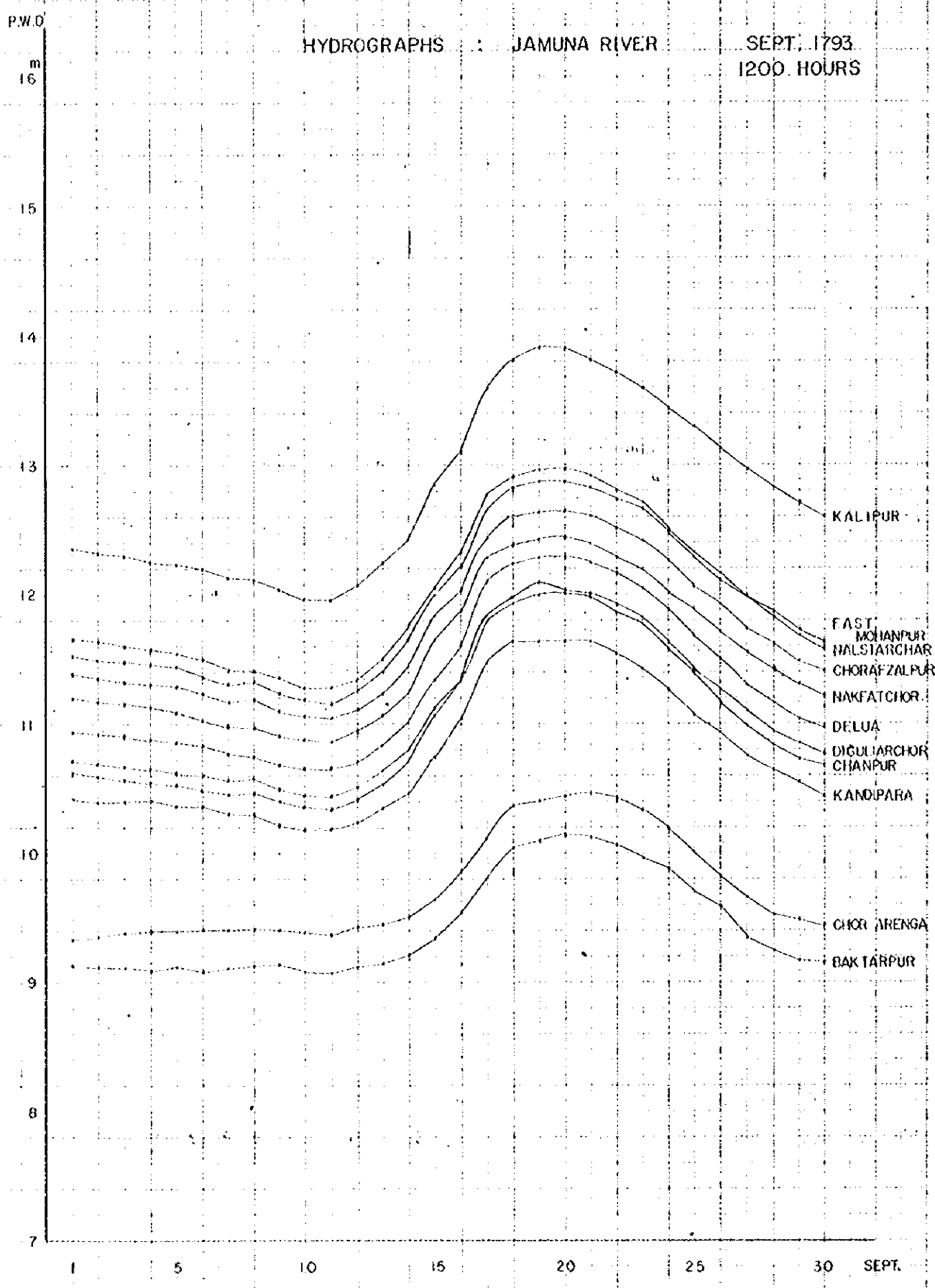


LOCATION OF GAUGING STATIONS



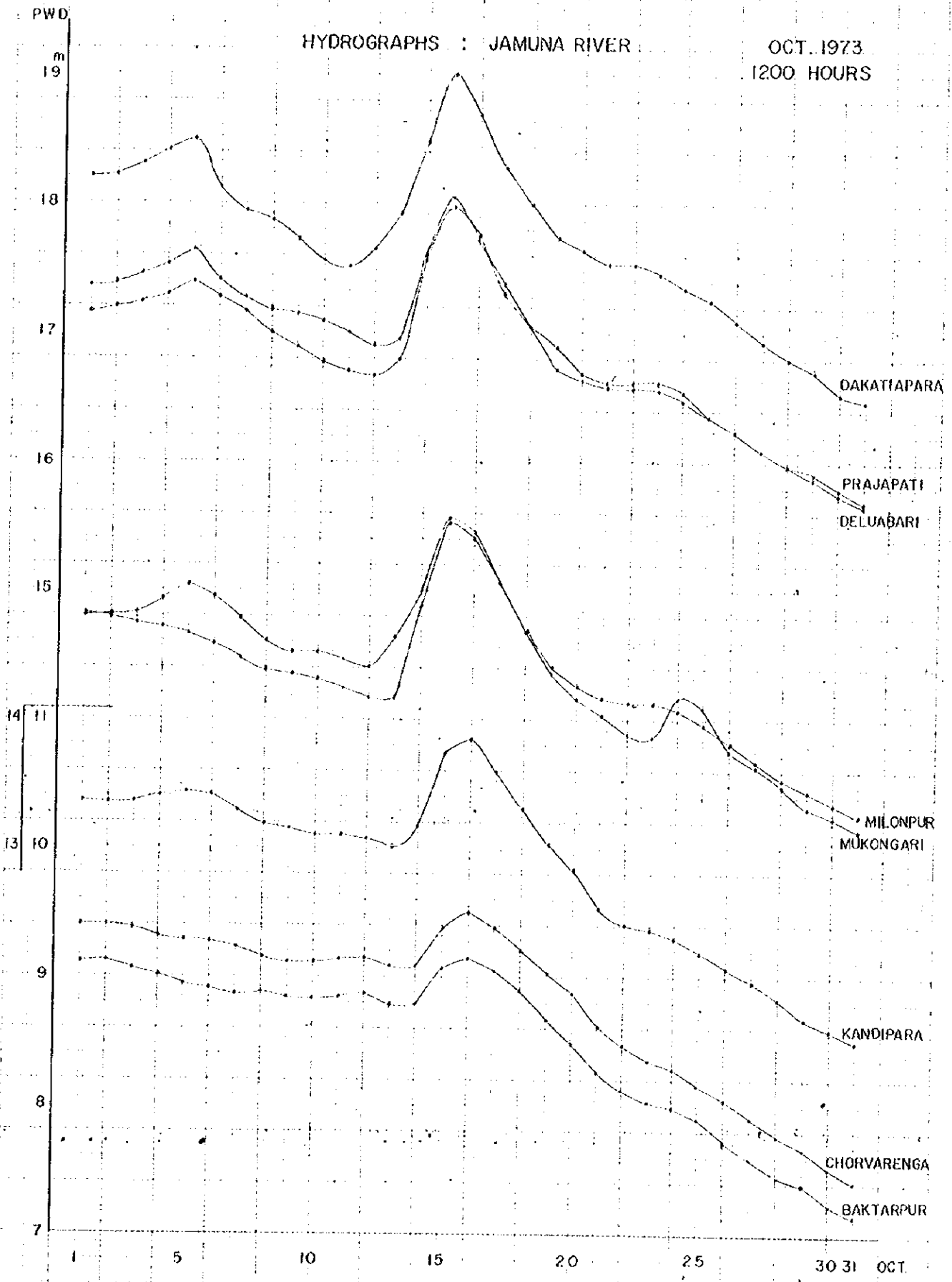
HYDROGRAPHS : JAMUNA RIVER

SEPT. 1933
1200 HOURS



HYDROGRAPHS : JAMUNA RIVER

OCT. 1973
1200 HOURS



PLACE ----KALIPUR

SEP. 1973

GAUGE NO. 18

B.M. LEVEL 45.53 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	40.60 12.37	40.60 12.37	40.55 12.36	40.55 12.36	40.50 12.34
2	40.45 12.33	40.45 12.33	40.40 12.31	40.40 12.31	40.40 12.31
3	40.35 12.30	40.35 12.30	40.35 12.30	40.35 12.30	40.35 12.30
4	40.30 12.28	40.25 12.27	40.20 12.25	40.20 12.25	40.20 12.25
5	40.15 12.24	40.15 12.24	40.15 12.24	40.10 12.22	40.10 12.22
6	40.00 12.19	40.00 12.19	39.95 12.18	39.95 12.18	39.90 12.16
7	39.80 12.13	39.80 12.13	39.75 12.12	39.75 12.12	39.70 12.10
8	39.80 12.13	39.80 12.13	39.75 12.12	39.75 12.12	39.70 12.10
9	39.55 12.05	39.55 12.05	39.50 12.04	39.45 12.02	39.40 12.01
10	39.30 11.98	39.30 11.98	39.25 11.96	39.25 11.96	39.25 11.96
11	39.25 11.96	39.25 11.96	39.25 11.96	39.30 11.98	39.30 11.98
12	39.50 12.04	39.55 12.05	39.50 12.07	39.65 12.09	39.70 12.10
13	40.00 12.19	40.10 12.22	40.20 12.25	40.25 12.27	40.30 12.28
14	40.55 12.36	40.65 12.39	40.75 12.42	40.95 12.48	41.10 12.53
15	41.80 12.74	42.00 12.80	42.15 12.85	42.30 12.89	42.40 12.92
16	42.70 13.01	42.80 13.05	42.90 13.03	43.00 13.11	43.10 13.14
17	44.40 13.53	44.50 13.56	44.60 13.59	44.70 13.62	44.80 13.66
18	45.15 13.76	45.20 13.78	45.30 13.81	45.35 13.82	45.40 13.84
19	45.60 13.90	45.60 13.90	45.60 13.90	45.45 13.85	45.65 13.91
20	45.65 13.91	45.65 13.91	45.60 13.90	45.60 13.90	45.55 13.88
21	45.40 13.84	45.35 13.82	45.35 13.82	45.30 13.81	45.25 13.79
22	45.00 13.72	45.00 13.72	44.95 13.70	44.95 13.70	44.90 13.70
23	44.70 13.62	44.65 13.61	44.60 13.59	44.55 13.58	44.50 13.56
24	44.20 13.47	44.15 13.46	44.10 13.44	44.05 13.43	44.00 13.41
25	43.70 13.32	43.65 13.30	43.60 13.29	43.55 13.27	43.50 13.26
26	43.15 13.15	43.10 13.14	43.05 13.12	43.00 13.11	42.95 13.09
27	42.60 12.98	42.55 12.97	42.50 12.95	42.45 12.94	42.40 12.92
28	42.15 12.85	42.10 12.83	42.05 12.82	42.00 12.80	41.95 12.79
29	41.80 12.74	41.75 12.73	41.70 12.71	41.65 12.69	41.60 12.68
30	41.40 12.62	41.40 12.62	41.35 12.60	41.35 12.60	41.30 12.59

PLACE --- EAST MOHANPUR

SEP, 1973

GAUGE NO. 19-J-6-1

B.M. LEVEL 48.25 FEET

DATE	0600 HOURS FEET	0600 HOURS METRES	0900 HOURS FEET	0900 HOURS METRES	1200 HOURS FEET	1200 HOURS METRES	1500 HOURS FEET	1500 HOURS METRES	1800 HOURS FEET	1800 HOURS METRES
1	38.25	11.66	38.25	11.66	38.25	11.66	38.20	11.64	38.20	11.64
2	38.15	11.63	38.15	11.63	38.15	11.63	38.10	11.61	38.10	11.61
3	38.05	11.60	38.05	11.60	38.05	11.60	38.05	11.60	38.00	11.58
4	37.95	11.57	37.95	11.57	37.95	11.57	37.95	11.57	37.90	11.55
5	37.85	11.54	37.85	11.54	37.85	11.54	37.85	11.54	37.80	11.52
6	37.70	11.49	37.70	11.49	37.65	11.48	37.65	11.48	37.60	11.46
7	37.50	11.43	37.50	11.43	37.45	11.41	37.45	11.41	37.40	11.40
8	37.50	11.43	37.50	11.43	37.45	11.41	37.45	11.41	37.40	11.40
9	37.25	11.35	37.25	11.35	37.20	11.34	37.20	11.34	37.15	11.32
10	37.05	11.29	37.05	11.29	37.00	11.28	37.00	11.28	37.00	11.28
11	37.00	11.28	37.00	11.28	37.00	11.28	37.00	11.28	37.00	11.28
12	37.10	11.31	37.15	11.32	37.20	11.34	37.25	11.35	37.30	11.37
13	37.60	11.46	37.65	11.48	37.70	11.49	37.75	11.51	37.80	11.52
14	38.10	11.61	38.15	11.63	38.25	11.66	38.40	11.70	38.60	11.77
15	39.25	11.96	39.35	11.99	39.50	12.04	39.70	12.10	39.95	12.18
16	40.20	12.25	40.25	12.27	40.35	12.30	40.40	12.31	40.50	12.34
17	41.55	12.66	41.75	12.73	41.90	12.77	41.90	12.77	41.90	12.77
18	42.25	12.88	42.30	12.89	42.35	12.91	42.40	12.92	42.45	12.94
19	42.50	12.95	42.50	12.95	42.50	12.95	42.50	12.95	42.50	12.95
20	42.55	12.97	42.55	12.97	42.55	12.97	42.55	12.97	42.55	12.97
21	42.40	12.92	42.40	12.92	42.35	12.91	42.35	12.91	42.30	12.89
22	42.10	12.83	42.05	12.82	42.00	12.80	41.95	12.79	41.90	12.77
23	41.80	12.74	41.75	12.73	41.70	12.71	41.65	12.69	41.60	12.68
24	41.15	12.54	41.05	12.51	40.95	12.48	40.90	12.47	40.95	12.45
25	40.50	12.34	40.45	12.33	40.35	12.30	40.30	12.28	40.25	12.27
26	40.00	12.19	39.95	12.18	39.90	12.16	39.80	12.13	39.75	12.12
27	39.45	12.02	39.35	11.99	39.30	11.98	39.25	11.96	39.20	11.95
28	38.95	11.87	38.95	11.87	38.90	11.86	38.85	11.84	38.80	11.83
29	38.55	11.75	38.50	11.73	38.45	11.72	38.40	11.70	38.35	11.69
30	38.20	11.64	38.15	11.63	38.15	11.63	38.10	11.61	38.05	11.60

PLACE---NALS IARCHAR

SEP. 1973

GAUGE NO. 20 J-6-1 LB

B.M. LEVEL 44.58 FEET

DATE	0600 HOURS		0900 HOURS		1200 HOURS		1500 HOURS		1800 HOURS	
	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES
1	37.75	11.51	37.75	11.51	37.75	11.51	37.75	11.51	37.75	11.51
2	37.70	11.49	37.70	11.49	37.65	11.48	37.65	11.48	37.65	11.48
3	37.65	11.48	37.65	11.48	37.65	11.48	37.65	11.48	37.65	11.48
4	37.60	11.46	37.55	11.45	37.55	11.45	37.50	11.43	37.50	11.43
5	37.50	11.43	37.50	11.43	37.45	11.41	37.45	11.41	37.40	11.40
6	37.30	11.37	37.30	11.37	37.25	11.35	37.25	11.35	37.20	11.34
7	37.10	11.31	37.05	11.29	37.05	11.29	37.00	11.28	37.00	11.28
8	37.10	11.31	37.10	11.31	37.10	11.31	37.05	11.29	37.00	11.28
9	36.90	11.25	36.85	11.23	36.85	11.23	36.80	11.22	36.80	11.22
10	36.70	11.19	36.70	11.19	36.70	11.19	36.65	11.17	36.65	11.17
11	36.60	11.16	36.60	11.16	36.60	11.16	36.60	11.16	36.60	11.16
12	36.80	11.22	36.85	11.23	36.90	11.25	36.95	11.26	37.00	11.28
13	37.30	11.37	37.35	11.38	37.40	11.40	37.50	11.43	37.60	11.46
14	37.90	11.55	38.05	11.60	38.20	11.64	38.35	11.69	38.45	11.72
15	39.00	11.89	39.15	11.93	39.35	11.99	39.50	12.04	39.65	12.09
16	39.95	12.18	40.00	12.19	40.10	12.22	40.20	12.25	40.30	12.28
17	41.30	12.59	41.40	12.62	41.50	12.65	41.60	12.68	41.70	12.71
18	42.00	12.80	42.05	12.82	42.05	12.82	42.10	12.83	42.15	12.85
19	42.20	12.86	42.20	12.86	42.20	12.86	42.20	12.86	42.20	12.86
20	42.20	12.86	42.20	12.86	42.20	12.86	42.20	12.86	42.15	12.85
21	42.10	12.83	42.10	12.83	42.05	12.82	42.05	12.82	42.00	12.80
22	41.80	12.74	41.80	12.74	41.75	12.73	41.75	12.73	41.70	12.71
23	41.55	12.66	41.50	12.65	41.50	12.65	41.45	12.63	41.40	12.62
24	41.00	12.50	40.95	12.48	40.85	12.45	40.80	12.44	40.70	12.41
25	40.40	12.31	40.35	12.30	40.25	12.27	40.20	12.25	40.10	12.22
26	39.85	12.15	39.80	12.13	39.70	12.10	39.65	12.09	39.60	12.07
27	39.40	12.01	39.35	11.99	39.39	11.98	39.20	11.95	39.10	11.92
28	38.90	11.86	38.85	11.84	38.75	11.81	38.70	11.80	38.65	11.78
29	38.40	11.70	38.35	11.69	38.30	11.67	38.25	11.66	38.20	11.64
30	38.05	11.60	38.00	11.58	37.95	11.57	37.90	11.55	37.90	11.55

PLACE --- CHOR AFZALPUR

SEP, 1973

GAUGE NO. 23J L.D.

B.M. LEVEL 44.31 FEET

DATE	0600 HOURS		0900 HOURS		1200 HOURS		1500 HOURS		1800 HOURS	
	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES
1	37.30	11.37	37.30	11.37	37.30	11.37	37.25	11.35	37.25	11.35
2	37.25	11.35	37.25	11.35	37.25	11.35	37.25	11.35	37.25	11.35
3	37.20	11.34	37.20	11.34	37.15	11.32	37.15	11.32	37.15	11.32
4	37.10	11.34	37.10	11.31	37.05	11.29	37.05	11.29	37.05	11.29
5	37.00	11.28	37.00	11.28	37.00	11.28	36.95	11.26	36.95	11.26
6	36.85	11.23	36.84	11.23	36.80	11.22	36.80	11.22	36.75	11.20
7	36.65	11.17	36.65	11.17	36.60	11.16	36.60	11.16	36.55	11.14
8	36.70	11.19	36.70	11.19	36.65	11.17	36.50	11.13	36.55	11.14
9	36.45	11.11	36.45	11.11	36.40	11.09	36.40	11.09	36.35	11.08
10	36.25	11.05	36.25	11.05	36.25	11.05	36.25	11.05	36.25	11.05
11	36.20	11.03	36.20	11.03	36.20	11.03	36.20	11.03	36.25	11.05
12	36.35	11.08	36.40	11.09	36.44	11.11	36.50	11.13	36.55	11.14
13	36.75	11.20	35.80	11.22	36.84	11.23	36.90	11.25	36.95	11.26
14	37.35	11.38	37.45	11.41	37.65	11.45	37.70	11.49	37.85	11.54
15	38.55	11.75	38.70	11.80	38.85	11.84	38.95	11.87	39.05	11.90
16	39.25	11.96	39.55	12.05	39.45	12.02	39.55	12.05	39.65	12.09
17	40.55	12.36	40.70	12.41	40.80	12.44	40.90	12.47	40.95	12.48
18	41.25	12.57	41.25	12.57	41.35	12.60	41.35	12.60	41.45	12.63
19	41.45	12.63	41.45	12.63	41.45	12.63	41.45	12.63	41.50	12.65
20	41.50	12.65	41.50	12.65	41.50	12.65	41.50	12.65	41.50	12.65
21	41.45	12.63	41.40	12.62	41.35	12.60	41.35	12.60	41.30	12.59
22	41.10	12.53	41.05	12.51	41.05	12.51	41.00	12.50	41.00	12.50
23	40.80	12.44	40.75	12.42	40.70	12.41	40.70	12.41	40.65	12.39
24	40.35	12.30	40.30	12.28	40.20	12.25	40.10	12.22	40.05	12.21
25	39.75	12.12	39.65	12.09	39.65	12.05	39.45	12.02	39.40	12.01
26	39.20	11.95	39.15	11.93	39.10	11.92	39.05	11.90	38.95	11.87
27	38.65	11.78	38.60	11.77	38.50	11.73	38.45	11.72	38.40	11.70
28	38.15	11.63	38.15	11.63	38.10	11.61	38.05	11.60	38.00	11.58
29	37.80	11.52	37.75	11.51	37.65	11.48	37.60	11.46	37.55	11.45
30	37.45	11.41	37.40	11.40	37.40	11.40	37.35	11.38	37.30	11.37

PLACE ---NAKFATCHOR

SEP. 1973

GAUGE NO. 22 JRD

B.M. LEVEL 39.02 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	36.70 11.19	36.70 11.19	36.70 11.19	36.70 11.19	36.65 11.17
2	36.60 11.16	36.60 11.16	36.60 11.16	36.60 11.16	36.60 11.16
3	36.55 11.14	36.55 11.14	36.55 11.14	36.55 11.14	36.50 11.13
4	36.50 11.13	36.45 11.11	36.45 11.11	36.40 11.09	36.40 11.09
5	36.35 11.08	36.35 11.08	36.35 11.08	36.30 11.06	36.30 11.06
6	36.20 11.03	36.20 11.03	36.15 11.02	36.15 11.02	36.10 11.00
7	36.00 10.97	36.00 10.97	36.00 10.97	36.00 10.97	35.95 10.96
8	36.10 11.00	36.05 10.99	36.00 10.97	36.00 10.97	35.95 10.96
9	35.80 10.91	35.80 10.91	35.75 10.90	35.75 10.90	35.70 10.88
10	35.65 10.87	35.65 10.87	35.65 10.87	35.65 10.87	35.60 10.85
11	35.60 10.85	35.60 10.85	35.60 10.85	35.60 10.85	35.60 10.85
12	35.75 10.90	35.80 10.91	35.85 10.93	35.90 10.94	35.95 10.96
13	36.20 11.03	36.25 11.05	36.30 11.06	36.35 11.08	36.40 11.09
14	36.70 11.19	36.75 11.20	36.85 11.23	37.00 11.28	37.25 11.35
15	37.25 11.35	37.90 11.55	38.20 11.64	38.35 11.69	38.45 11.72
16	38.70 11.80	38.80 11.83	38.90 11.86	38.95 11.87	39.00 11.89
17	40.00 12.19	40.15 12.24	40.25 12.27	40.25 12.27	40.30 12.28
18	40.60 12.37	40.60 12.37	40.60 12.37	40.65 12.39	40.65 12.39
19	40.70 12.41	40.75 12.42	40.75 12.42	40.75 12.42	40.75 12.42
20	40.80 12.44	40.80 12.44	40.80 12.44	40.80 12.44	40.80 12.44
21	40.70 12.41	40.70 12.41	40.65 12.39	40.65 12.39	40.60 12.37
22	40.40 12.31	40.35 12.30	40.30 12.28	40.25 12.27	40.20 12.25
23	40.10 12.22	40.05 12.21	40.00 12.19	39.95 12.18	39.90 12.16
24	39.60 12.07	39.55 12.05	39.45 12.02	39.40 12.01	39.35 11.99
25	39.05 11.90	38.95 11.87	38.90 11.86	38.85 11.84	38.80 11.83
26	38.55 11.75	38.50 11.73	38.40 11.70	38.35 11.69	38.25 11.66
27	38.00 11.58	37.95 11.57	37.85 11.54	37.80 11.52	37.70 11.49
28	37.50 11.43	37.50 11.43	37.45 11.41	37.40 11.40	37.35 11.38
29	37.15 11.32	37.10 11.31	37.05 11.29	37.00 11.28	36.95 11.26
30	36.80 11.22	36.80 11.22	36.75 11.20	36.75 11.20	36.70 11.19

PLACE---DELUA

SEP. 1973

GAUGE NO. 25 JR

B.M. LEVEL 41.62 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	35.85 10.93	35.85 10.93	35.85 10.93	35.85 10.93	35.85 10.93
2	35.80 10.91	35.80 10.91	35.75 10.90	35.75 10.90	35.85 10.93
3	35.75 10.90	35.75 10.90	35.75 10.90	35.75 10.90	35.75 10.90
4	35.65 10.87	35.65 10.87	35.65 10.87	35.60 10.85	35.60 10.85
5	35.60 10.85	35.60 10.85	35.60 10.85	35.55 10.84	35.55 10.84
6	35.50 10.82	35.50 10.82	35.50 10.82	35.45 10.81	35.45 10.81
7	35.35 10.77	35.35 10.77	35.35 10.77	35 35 10.77	35.30 10.76
8	35.25 10.74	35.25 10.74	35.25 10.74	35.25 10.74	35.20 10.73
9	35.05 10.68	35.05 10.68	35.05 10.68	35.00 10.67	35.00 10.67
10	34.95 10.65	34.95 10.65	34.95 10.65	34.95 10.65	34.90 10.64
11	34.90 10.64	34.90 10.64	34.90 10.64	34.95 10.65	34.95 10.65
12	35.05 10.68	35.10 10.70	35.10 10.70	35.15 10.71	35.20 10.73
13	35.40 10.79	35.45 10.81	35.55 10.84	35.40 10.79	35.45 10.81
14	35.85 10.93	35.95 10.96	36.05 10.99	36.10 11.00	36.15 11.02
15	36.85 11.23	37.05 11.29	37.15 11.32	37.35 11.38	37.55 11.45
16	37.85 11.54	37.95 11.57	38.05 11.60	38.15 11.63	38.25 11.66
17	39.35 11.99	39.55 12.05	39.70 12.10	39.70 12.10	39.75 12.12
18	40.10 12.22	40.10 12.22	40.10 12.22	40.15 12.24	40.15 12.24
19	40.25 12.27	40.25 12.27	40.25 12.27	40.30 12.28	40.30 12.28
20	40.30 12.28	40.30 12.28	40.30 12.28	40.30 12.28	40.25 12.27
21	40.20 12.25	40.20 12.25	40.15 12.24	40.15 12.24	40.10 12.22
22	39.95 12.18	39.90 12.16	39.90 12.16	39.85 12.15	39.80 12.13
23	39.60 12.07	39.55 12.05	39.50 12.04	39.45 12.02	39.40 12.01
24	39.05 11.90	38.95 11.87	38.90 11.86	38.80 11.83	38.75 11.81
25	38.40 11.70	38.30 11.67	38.25 11.66	38.15 11.63	38.10 11.61
26	37.75 11.51	37.70 11.49	37.65 11.48	37.55 11.45	37.50 11.43
27	37.20 11.34	37.10 11.31	37.00 11.28	37.00 11.28	36.90 11.25
28	36.65 11.17	36.60 11.16	36.55 11.14	36.55 11.14	36.50 11.13
29	36.30 11.06	36.25 11.05	36.20 11.03	36.15 11.02	36.10 11.00
30	36.10 11.00	36.05 10.99	36.00 10.97	35.95 10.96	35.95 10.96

PLACE --- DIGULI ARCHOR

SEP, 1973

GAUGE NO. 26 JL

B.M. LEVEL 40.18 FEET

DATE	0600 HOURS FEET	0600 HOURS METRES	0900 HOURS FEET	0900 HOURS METRES	1200 HOURS FEET	1200 HOURS METRES	1500 HOURS FEET	1500 HOURS METRES	1800 HOURS FEET	1800 HOURS METRES
1	35.15	10.71	35.15	10.70	35.10	10.70	35.10	10.70	35.10	10.70
2	35.05	10.68	35.05	10.68	35.05	10.68	35.00	10.67	35.00	10.67
3	35.00	10.67	35.00	10.67	34.95	10.65	34.95	10.65	34.95	10.65
4	34.95	10.65	34.95	10.65	34.95	10.65	34.95	10.65	34.90	10.64
5	34.65	10.56	34.65	10.56	34.85	10.62	34.85	10.62	34.85	10.62
6	34.75	10.59	34.75	10.59	34.75	10.59	34.70	10.58	34.70	10.58
7	34.65	10.56	34.65	10.56	34.60	10.55	34.60	10.55	34.55	10.53
8	34.70	10.58	34.70	10.58	34.65	10.56	34.60	10.55	34.55	10.53
9	34.45	10.50	34.45	10.50	34.40	10.49	34.40	10.49	34.35	10.47
10	34.30	10.45	34.30	10.45	34.25	10.44	34.25	10.44	34.25	10.44
11	34.25	10.44	34.25	10.44	34.25	10.44	34.25	10.44	34.25	10.44
12	34.35	10.47	34.40	10.49	34.45	10.50	34.50	10.52	34.55	10.53
13	34.75	10.59	34.80	10.61	34.85	10.62	34.90	10.64	34.95	10.65
14	35.20	10.73	35.25	10.74	35.34	10.77	34.45	10.81	35.55	10.84
15	36.05	10.99	36.30	11.06	36.50	11.13	36.65	11.17	36.75	11.20
16	37.00	11.28	37.05	11.29	37.15	11.32	37.25	11.35	37.35	11.38
17	38.25	11.66	38.45	11.72	38.70	11.80	38.85	11.84	38.95	11.87
18	39.05	11.90	39.15	11.93	39.20	11.95	39.25	11.96	39.25	11.96
19	39.25	11.99	39.35	11.99	39.35	11.99	39.35	11.99	39.40	12.01
20	39.45	12.02	39.45	12.02	39.45	12.02	39.45	12.02	39.45	12.02
21	39.35	11.99	39.35	11.99	39.30	11.98	39.25	11.96	39.20	11.95
22	38.95	11.87	38.95	11.87	38.90	11.86	38.90	11.86	38.85	11.84
23	38.65	11.78	38.65	11.78	38.60	11.77	38.55	11.75	38.55	11.75
24	38.10	11.61	38.05	11.60	38.00	11.58	37.95	11.57	37.90	11.55
25	37.55	11.45	37.45	11.41	37.35	11.38	37.30	11.37	37.25	11.35
26	37.00	11.28	36.95	11.26	36.90	11.25	36.85	11.23	36.75	11.20
27	36.45	11.11	36.40	11.09	36.35	11.08	36.30	11.06	36.25	11.05
28	36.00	10.97	35.95	10.96	35.90	10.94	35.90	10.94	35.85	10.93
29	35.60	10.85	35.55	10.84	35.55	10.84	35.50	10.82	35.50	10.82
30	35.40	10.79	35.35	10.77	35.30	10.76	35.26	10.75	35.20	10.73

PLACE---CHANPUR

SEP. 1973

GAUGE NO. 27 J-5 RB

B.M. LEVEL 41.79 FEET

DATE	0600 HOURS		0900 HOURS		1200 HOURS		1500 HOURS		1800 HOURS	
	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES
1	34.80	10.61	34.80	10.61	34.80	10.61	34.75	10.59	34.75	10.59
2	34.70	10.58	34.70	10.58	34.70	10.58	34.70	10.58	34.70	10.58
3	34.65	10.56	34.65	10.56	34.65	10.56	34.65	10.56	34.65	10.56
4	34.60	10.55	34.60	10.55	34.55	10.53	34.55	10.53	34.50	10.52
5	34.50	10.52	34.50	10.52	34.50	10.52	34.50	10.52	34.50	10.52
6	34.40	10.49	34.40	10.49	34.35	10.47	34.35	10.47	34.30	10.45
7	34.25	10.44	34.25	10.44	34.25	10.44	34.20	10.42	34.20	10.42
8	34.35	10.47	34.35	10.47	34.30	10.45	34.25	10.44	34.20	10.42
9	34.10	10.39	34.10	10.39	34.10	10.39	34.05	10.38	34.05	10.38
10	34.00	10.36	33.95	10.35	33.95	10.35	33.95	10.35	33.95	10.35
11	33.90	10.33	33.90	10.33	33.90	10.33	33.95	10.35	33.95	10.35
12	34.05	10.38	34.10	10.39	34.15	10.41	34.20	10.42	34.25	10.44
13	34.45	10.50	34.50	10.52	34.55	10.53	34.60	10.55	34.70	10.58
14	34.90	10.64	35.00	10.67	35.10	10.70	35.20	10.73	35.35	10.77
15	35.80	10.91	36.05	10.99	36.30	11.06	36.45	11.11	36.60	11.16
16	36.90	11.25	37.00	11.28	37.10	11.31	37.20	11.34	37.30	11.37
17	38.10	11.61	38.40	11.70	38.80	11.83	38.80	11.83	38.80	11.83
18	39.10	11.92	39.15	11.93	39.20	11.95	39.25	11.96	39.25	11.96
19	39.35	11.99	39.35	11.99	39.67	12.09	39.40	12.01	39.45	12.02
20	39.45	12.02	39.45	12.02	39.45	12.02	39.45	12.02	39.45	12.02
21	39.40	12.01	39.35	11.99	39.35	11.99	39.30	11.98	39.30	11.98
22	39.10	11.92	39.05	11.90	39.05	11.90	39.00	11.89	39.00	11.89
23	38.80	11.83	38.75	11.81	38.70	11.80	38.65	11.78	38.60	11.77
24	38.25	11.66	38.20	11.64	38.10	11.61	38.05	11.60	38.00	11.62
25	37.60	11.46	37.60	11.43	37.40	11.40	37.30	11.37	37.15	11.32
26	36.85	11.23	36.70	11.19	36.55	11.14	36.50	11.13	36.40	11.09
27	36.10	11.00	36.05	10.99	35.95	10.96	35.90	10.94	35.85	10.93
28	35.60	10.85	35.55	10.84	35.50	10.82	35.45	10.81	35.40	10.79
29	35.25	10.74	35.20	10.73	35.15	10.71	35.10	10.70	35.05	10.68
30	34.95	10.65	35.00	10.67	35.00	10.67	34.95	10.65	34.85	10.62

PLACE ---KANDIPARA

SEP. 1973

GAUGE NO.28-J-5 LB

B.M. LEVEL 42.23 FEET

DATE	0600 HOURS FEET	0900 HOURS METRES	0900 HOURS FEET	1200 HOURS METRES	1200 HOURS FEET	1500 HOURS METRES	1500 HOURS FEET	1800 HOURS METRES	1800 HOURS FEET	1800 HOURS METRES
1	34.20	10.42	34.20	10.42	34.10	10.39	34.15	10.41	34.15	10.41
2	34.10	10.39	34.10	10.39	34.10	10.39	34.10	10.39	34.10	10.39
3	34.10	10.39	34.10	10.39	34.10	10.39	34.10	10.39	34.10	10.39
4	34.10	10.39	34.10	10.39	34.10	10.39	34.10	10.39	34.10	10.39
5	34.00	10.36	34.00	10.36	34.00	10.36	34.00	10.36	33.95	10.35
6	33.95	10.35	33.95	10.35	33.95	10.35	33.90	10.33	33.85	10.32
7	33.80	10.30	33.80	10.30	33.75	10.29	33.75	10.29	33.70	10.27
8	33.80	10.30	33.80	10.30	33.75	10.29	33.75	10.29	33.70	10.27
9	33.55	10.23	33.45	10.20	33.50	10.21	33.50	10.21	33.45	10.20
10	33.40	10.18	33.40	10.18	33.40	10.18	33.40	10.18	33.35	10.17
11	33.35	10.17	33.35	10.17	33.35	10.17	33.35	10.17	33.35	10.17
12	33.45	10.20	33.50	10.21	33.55	10.23	33.60	10.24	33.65	10.26
13	33.85	10.32	33.90	10.33	33.95	10.35	34.00	10.35	34.05	10.38
14	34.20	10.42	34.25	10.44	34.30	10.45	34.35	10.47	34.40	10.49
15	35.00	10.67	35.10	10.70	35.20	10.73	35.25	10.74	35.35	10.77
16	36.00	10.97	36.10	11.00	36.20	11.03	36.30	11.06	36.40	11.09
17	37.25	11.35	37.45	11.41	37.65	11.48	37.75	11.51	37.80	11.52
18	38.10	11.61	38.10	11.61	38.15	11.63	38.15	11.63	38.15	11.63
19	38.15	11.63	38.15	11.63	38.15	11.63	38.15	11.63	38.15	11.63
20	38.20	11.64	38.20	11.64	38.20	11.64	38.20	11.64	38.20	11.64
21	38.15	11.63	38.15	11.63	38.15	11.63	38.10	11.61	38.05	11.60
22	37.85	11.54	37.85	11.54	37.80	11.52	37.80	11.52	37.75	11.51
23	37.55	11.45	37.50	11.43	37.45	11.41	37.35	11.38	37.30	11.37
24	37.00	11.28	36.95	11.26	36.90	11.25	36.85	11.23	36.80	11.22
25	36.40	11.09	36.35	11.08	36.30	11.06	36.25	11.05	36.20	11.03
26	35.95	10.96	35.90	10.94	35.85	10.93	35.80	10.91	35.75	10.90
27	35.40	10.79	35.30	10.76	35.25	10.74	35.20	10.73	35.10	10.70
28	34.95	10.65	34.90	10.64	34.85	10.62	34.85	10.62	34.80	10.61
29	34.60	10.55	34.60	10.55	34.55	10.53	34.50	10.52	34.46	10.50
30	34.30	10.45	34.30	10.45	34.25	10.44	34.25	10.44	34.20	10.42

PLACE ---BAKTARPUR

SEP. 1973

GAUGE NO. 90 JR

B.M. LEVEL.

DATE	0600 HOURS FEET	0900 HOURS METRES	0900 HOURS FEET	1200 HOURS METRES	1200 HOURS FEET	1500 HOURS METRES	1500 HOURS FEET	1800 HOURS METRES	1800 HOURS FEET	HOURS METRES
1	29.81	9.09	29.82	9.09	29.85	9.10	29.86	9.10	29.86	9.10
2	29.86	9.10	29.86	9.10	29.86	9.10	29.86	9.10	29.86	9.10
3	29.86	9.10	29.86	9.10	29.86	9.10	29.86	9.10	29.86	9.10
4	29.81	9.09	29.79	9.08	29.79	9.08	29.79	9.08	29.79	9.08
5	29.84	9.10	29.84	9.10	29.84	9.10	29.84	9.10	29.84	9.10
6	29.79	9.08	29.79	9.08	29.79	9.08	29.79	9.08	29.79	9.08
7	29.84	9.10	29.84	9.10	29.84	9.10	29.84	9.10	29.84	9.10
8	29.89	9.11	29.89	9.11	29.89	9.11	29.89	9.11	29.94	9.13
9	29.94	9.13	29.94	9.13	29.94	9.13	29.89	9.11	29.89	9.11
10	29.79	9.08	29.79	9.08	29.79	9.08	29.75	9.07	29.79	9.08
11	29.79	9.08	29.75	9.07	29.75	9.07	29.75	9.07	29.80	9.08
12	29.85	9.10	29.85	9.10	29.85	9.10	29.90	9.11	29.90	9.11
13	29.95	9.13	29.95	9.13	30.00	9.14	30.00	9.14	30.05	9.16
14	30.16	9.19	30.15	9.19	30.20	9.20	30.25	9.22	30.30	9.24
15	30.60	9.33	30.55	9.31	30.65	9.34	30.75	9.37	30.80	9.39
16	31.10	9.48	31.15	9.49	31.25	9.53	31.40	9.57	31.50	9.60
17	31.80	9.69	31.95	9.74	32.10	9.79	32.30	9.85	32.50	9.91
18	32.85	10.01	32.90	10.03	32.95	10.04	33.00	10.06	33.00	10.06
19	33.10	10.09	33.10	10.09	33.15	10.10	33.15	10.10	33.20	10.12
20	33.25	10.13	33.25	10.13	33.25	10.13	33.20	10.12	33.25	10.13
21	33.25	10.13	33.24	10.13	33.24	10.13	33.19	10.12	33.19	10.12
22	33.09	10.09	33.09	10.09	32.99	10.06	32.94	10.04	32.89	10.02
23	32.79	9.99	32.74	9.98	32.69	9.96	32.64	9.95	32.64	9.95
24	32.49	9.90	32.44	9.89	32.39	9.87	32.34	9.86	32.24	9.83
25	31.94	9.74	31.89	9.72	31.79	9.69	31.69	9.66	31.59	9.63
26	31.15	9.49	31.19	9.51	31.09	9.48	31.04	9.46	30.94	9.43
27	30.69	9.35	30.64	9.34	30.59	9.32	30.54	9.31	30.49	9.29
28	30.29	9.23	30.24	9.22	30.24	9.22	30.19	9.20	30.19	9.20
29	30.09	9.17	30.09	9.17	30.04	9.16	30.04	9.16	30.04	9.16
30	29.99	9.14	29.99	9.14	29.99	9.14	29.99	9.14	29.94	9.13

PLACE---CHORVARENGA

SEP. 1973

GAUGE NO.31 JL

B.M. LEVEL 37.14 FEET.

DATE	0600 HOURS FEET	HOURS METRES	0900 HOURS FEET	HOURS METRES	1200 HOURS FEET	HOURS METRES	1500 HOURS FEET	HOURS METRES	1800 HOURS FEET	HOURS METRES
1	30.59	9.32	30.59	9.32	30.59	9.32	30.59	9.32	30.59	9.32
2	30.64	9.34	30.64	9.34	30.64	9.34	30.69	9.35	30.69	9.35
3	30.74	9.37	30.74	9.37	30.74	9.37	30.74	9.37	30.74	9.37
4	30.69	9.35	30.69	9.35	30.76	9.38	30.76	9.38	30.76	9.38
5	30.76	9.38	30.76	9.38	30.76	9.38	30.76	9.38	30.76	9.38
6	30.81	9.39	30.81	9.39	30.81	9.39	30.81	9.39	30.81	9.39
7	30.81	9.39	30.81	9.39	30.81	9.39	30.86	9.41	30.86	9.41
8	30.86	9.41	30.86	9.41	30.86	9.41	30.86	9.41	30.86	9.41
9	30.81	9.39	30.81	9.39	30.81	9.39	30.81	9.39	30.81	9.39
10	30.76	9.38	30.76	9.38	30.76	9.38	30.71	9.36	30.71	9.36
11	30.71	9.36	30.71	9.36	30.70	9.36	30.75	9.37	30.75	9.37
12	30.86	9.41	30.86	9.41	30.86	9.41	30.85	9.41	30.85	9.41
13	30.95	9.43	30.95	9.43	31.00	9.45	31.00	9.45	31.05	9.46
14	31.15	9.49	31.15	9.49	31.20	9.51	30.20	9.51	31.25	9.53
15	31.50	9.60	31.55	9.62	31.60	9.63	31.65	9.65	31.75	9.68
16	32.20	9.81	32.25	9.83	32.30	9.85	32.40	9.88	32.50	9.91
17	32.90	10.03	32.00	9.75	33.15	10.10	33.25	10.13	33.50	10.21
18	33.90	10.33	33.95	10.35	34.00	10.36	34.05	10.38	34.05	10.38
19	34.15	10.41	34.15	10.41	34.15	10.41	34.20	10.42	34.20	10.42
20	34.25	10.44	34.25	10.44	34.25	10.44	34.30	10.45	34.30	10.45
21	34.30	10.45	34.30	10.45	34.30	10.45	34.25	10.44	34.25	10.44
22	34.20	10.42	34.20	10.42	34.20	10.42	34.15	10.41	34.15	10.41
23	33.95	10.35	33.90	10.33	33.85	10.32	33.80	10.30	33.75	10.29
24	31.50	10.21	33.45	10.20	33.42	10.19	33.37	10.17	33.32	10.16
25	33.02	10.06	32.92	10.03	32.82	10.00	32.72	9.97	32.67	9.96
26	32.37	9.87	32.32	9.85	32.22	9.82	32.17	9.81	32.12	9.79
27	31.87	9.71	31.77	9.68	31.67	9.65	31.62	9.64	31.57	9.62
28	31.32	9.55	31.27	9.53	31.22	9.52	31.17	9.50	31.17	9.50
29	31.07	9.47	31.07	9.47	31.07	9.47	31.02	9.45	31.02	9.45
30	30.97	9.44	30.97	9.44	30.97	9.44	30.97	9.44	30.97	9.44

PLACE---DAKATIAPARA

OCT, 1973

GAUGE NO. 51 J 13-1

B.M. LEVEL 68.14 FEET

DATE	0600 HOURS FEET	0600 HOURS METRES	0900 HOURS FEET	0900 HOURS METRES	1200 HOURS FEET	1200 HOURS METRES	1500 HOURS FEET	1500 HOURS METRES	1800 HOURS FEET	1800 HOURS METRES
1	59.77	18.22	59.77	18.22	59.77	18.22	59.82	18.23	59.82	18.23
2	59.82	18.23	59.82	18.23	59.82	18.23	59.87	18.25	59.92	18.26
3	60.07	18.31	60.12	18.32	60.12	18.32	60.17	18.34	60.17	18.34
4	60.37	18.40	60.42	18.42	60.47	18.43	60.47	18.43	60.52	18.45
5	60.72	18.51	60.72	18.51	60.77	18.52	60.82	18.54	60.82	18.54
6	59.62	18.17	59.57	18.16	59.52	18.14	59.42	18.11	59.32	18.08
7	59.02	17.99	58.97	17.97	58.92	17.96	58.87	17.94	58.82	17.93
8	58.72	17.90	58.77	17.91	58.77	17.91	58.77	17.91	58.72	17.90
9	58.42	17.81	58.32	17.78	58.22	17.75	58.12	17.71	58.02	17.68
10	57.77	17.61	57.72	17.59	57.67	17.58	57.62	17.56	57.62	17.56
11	57.42	17.50	57.52	17.53	57.57	17.55	57.57	17.55	57.62	17.56
12	57.82	17.62	57.92	17.65	58.02	17.68	58.17	17.73	58.32	17.78
13	58.82	17.93	58.87	17.94	58.92	17.96	59.02	17.99	59.12	18.02
14	---	---	60.28	18.37	60.75	18.52	61.25	18.67	61.65	18.79
15	62.45	19.03	62.45	19.03	62.45	19.03	62.40	19.02	62.35	19.00
16	61.65	18.79	61.55	18.76	61.35	18.70	61.25	18.67	61.15	18.64
17	60.25	18.36	60.20	18.35	60.05	18.30	59.95	18.27	59.85	18.24
18	59.20	18.04	59.15	18.03	59.10	18.01	59.05	18.00	59.00	17.98
19	58.35	17.79	58.30	17.77	58.25	17.67	58.20	17.74	58.20	17.74
20	58.00	17.68	57.95	17.66	57.95	17.66	57.90	17.65	57.90	17.65
21	57.70	17.59	57.65	17.57	57.60	17.56	57.60	17.56	57.60	17.56
22	57.60	17.56	57.60	17.56	57.60	17.56	57.60	17.56	57.60	17.56
23	57.40	17.50	57.35	17.48	57.35	17.48	57.30	17.47	57.30	17.47
24	57.05	17.39	57.00	17.37	57.00	17.37	56.95	17.36	56.95	17.36
25	56.70	17.28	56.65	17.27	56.65	17.27	56.60	17.25	56.60	17.25
26	56.25	17.15	56.20	17.13	56.15	17.11	56.15	17.11	56.10	17.10
27	55.75	16.99	55.70	16.98	55.65	16.96	55.80	17.01	55.55	16.93
28	55.25	16.84	55.20	16.82	55.20	16.82	55.15	16.81	55.15	16.81
29	54.95	16.75	54.95	16.75	54.90	16.73	54.90	16.73	54.85	16.72
30	54.40	16.58	54.35	16.57	54.30	16.55	54.25	16.54	54.25	16.54
31	54.15	16.50	54.15	16.50	54.10	16.49	54.10	16.49	54.05	16.47

PLACE---DELUABARI

OCT. 1973

GAUGE NO. 14

B.M. LEVEL 63.55 FEET
(NEWB.M. 62.00)

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	57.00 17.37	57.00 17.37	57.00 17.37	57.00 17.37	57.00 17.37
2	57.05 17.39	57.05 17.39	57.05 17.39	57.05 17.39	57.10 17.40
3	57.30 17.47	57.30 17.47	57.30 17.47	57.30 17.47	57.35 17.48
4	57.45 17.51	57.50 17.53	57.55 17.54	57.60 17.56	57.65 17.57
5	57.90 17.65	57.95 17.66	57.95 17.66	57.90 17.65	57.85 17.63
6	57.40 17.50	57.30 17.47	57.20 17.43	57.15 17.42	57.10 17.40
7	56.80 17.31	56.75 17.30	56.70 17.28	56.65 17.27	56.55 17.24
8	56.40 17.19	56.40 17.19	56.40 17.19	56.40 17.19	56.40 17.19
9	56.30 17.16	56.30 17.16	56.30 17.16	56.30 17.16	56.30 17.16
10	56.20 17.13	56.20 17.13	56.15 17.11	56.15 17.11	56.10 17.10
11	55.95 17.05	55.90 17.04	55.85 17.02	55.85 17.02	55.80 17.01
12	55.60 16.95	55.55 16.93	55.50 16.92	55.50 16.92	55.45 16.90
13	55.30 16.86	55.25 16.84	55.30 16.86	55.35 16.87	55.40 16.89
14	57.10 17.40	57.60 17.56	57.80 17.62	58.00 17.68	58.20 17.74
15	59.02 18.04	59.30 18.07	59.30 18.07	59.30 18.07	59.15 18.03
16	58.60 17.86	58.40 17.80	58.20 17.74	58.10 17.71	57.90 17.65
17	57.35 17.48	57.20 17.43	57.05 17.39	56.95 17.36	56.80 17.31
18	56.20 17.13	56.10 17.10	56.00 17.07	55.90 17.04	55.85 17.02
19	55.05 16.78	55.00 16.76	54.95 16.75	54.90 16.73	54.85 16.72
20	54.75 16.69	54.70 16.67	54.65 16.66	54.65 16.66	54.60 16.64
21	54.45 16.60	54.45 16.60	54.45 16.60	54.45 16.60	54.45 16.60
22	54.45 16.60	54.45 16.60	54.45 16.60	54.45 16.60	54.40 16.58
23	54.45 16.60	54.45 16.60	54.40 16.58	54.40 16.58	54.35 16.57
24	54.20 16.52	54.20 16.52	54.15 16.50	54.15 16.50	54.10 16.49
25	53.85 16.41	53.80 16.40	53.75 16.38	53.70 16.37	53.65 16.35
26	53.40 16.28	53.35 16.26	53.30 16.25	53.25 16.23	53.20 16.22
27	52.95 16.14	52.90 16.12	52.85 16.11	52.80 16.09	52.75 16.08
28	52.55 16.02	52.50 16.00	52.45 15.99	52.40 15.97	52.35 15.96
29	52.25 15.93	52.20 15.91	52.15 15.90	52.10 15.88	52.05 15.86
30	51.85 15.80	51.80 15.79	51.75 15.77	51.70 15.76	51.65 15.74
31	51.50 15.70	51.50 15.70	51.45 15.68	51.45 15.68	51.40 15.67

PLACE --- DIGALKANDI

OCT. 1973

GAUGE NO. 45

B.M. LEVEL 64.44 FEET

DATE	0600 HOURS		0900 HOURS		1200 HOURS		1500 HOURS		1800 HOURS	
	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES	FEET	METRES
1	56.10	17.10	56.10	17.10	56.10	17.10	56.10	17.10	56.10	17.10
2	56.20	17.13	56.20	17.13	56.25	17.15	56.25	17.15	56.30	17.16
3	56.50	17.22	56.50	17.22	56.55	17.24	56.55	17.24	56.60	17.25
4	56.70	17.28	56.75	17.30	56.80	17.31	56.85	17.33	56.90	17.34
5	57.10	17.40	57.05	17.39	57.00	17.37	56.95	17.36	56.90	17.34
6	56.70	17.28	56.65	17.27	56.55	17.24	56.45	17.21	56.40	17.19
7	56.10	17.10	56.05	17.08	56.00	17.07	55.95	17.05	55.90	17.04
8	55.75	16.99	55.75	16.99	55.70	16.98	55.70	16.98	55.60	16.95
9	55.60	16.95	55.60	16.95	55.60	16.95	55.60	16.95	55.60	16.95
10	55.50	16.92	55.50	16.92	55.45	16.90	55.45	16.90	55.40	16.89
11	55.25	16.84	55.25	16.84	55.25	16.84	55.20	16.82	55.20	16.82
12	55.00	16.76	55.00	16.76	54.95	16.75	54.95	16.75	54.90	16.73
13	54.70	16.67	54.70	16.67	54.70	16.67	54.80	16.70	54.90	16.73
14	56.30	17.31	57.30	17.47	57.75	17.60	58.00	17.68	58.30	17.77
15	59.05	18.00	59.05	18.00	59.10	18.01	59.10	18.01	59.05	18.00
16	58.60	17.86	58.50	17.83	58.30	17.77	58.05	17.69	57.90	17.65
17	57.15	17.42	57.00	17.37	56.85	17.33	56.75	17.30	56.60	17.25
18	56.00	17.07	55.95	17.05	55.75	16.99	55.65	16.96	55.40	16.89
19	54.85	16.72	54.75	16.69	54.65	16.66	54.50	16.61	54.40	16.58
20	54.20	16.52	54.15	16.50	54.10	16.49	54.05	16.47	54.05	16.47
21	53.90	16.43	53.90	16.43	53.85	16.41	53.85	16.41	53.80	16.40
22	53.80	16.40	53.80	16.40	53.85	16.41	53.85	16.41	53.90	16.43
23	53.90	16.43	53.90	16.43	53.85	16.41	53.85	16.41	53.85	16.41
24	53.65	16.35	53.65	16.35	53.60	16.34	53.60	16.34	53.55	16.32
25	53.30	16.25	53.25	16.23	53.20	16.22	53.15	16.20	53.10	16.18
26	52.85	16.11	52.85	16.11	52.80	16.09	52.75	16.08	52.70	16.06
27	52.45	15.99	52.40	15.97	52.30	15.94	52.25	15.93	52.20	15.91
28	52.00	15.85	51.95	15.83	51.85	15.80	51.75	15.77	51.65	15.74
29	51.50	15.70	51.40	15.67	51.30	15.64	51.20	15.61	51.15	15.59
30	50.95	15.53	50.95	15.53	50.90	15.51	50.85	15.50	50.80	15.48
31	50.65	15.44	50.65	15.44	50.60	15.42	50.57	15.41	50.57	15.41

PLACE --- PRAJAPATI

OCT. 1973

GAUGE NO. 47-J 13-12 LB

B.M. LEVEL 63.23 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	56.33 17.17	56.33 17.17	56.33 17.17	56.33 17.17	56.33 17.17
2	56.38 17.18	56.38 17.18	56.43 17.20	56.43 17.20	56.48 17.22
3	56.53 17.23	56.53 17.23	56.58 17.25	56.58 17.25	56.63 17.26
4	56.73 17.29	56.73 17.29	56.78 17.31	56.83 17.32	56.93 17.35
5	57.08 17.40	57.13 17.41	57.13 17.41	57.08 17.40	57.03 17.38
6	56.73 17.29	56.73 17.29	56.68 17.28	56.68 17.28	56.63 17.26
7	56.43 17.20	56.43 17.20	56.38 17.18	56.33 17.17	56.23 17.14
8	56.03 17.08	55.98 17.06	55.88 17.03	55.83 17.02	55.73 16.99
9	55.53 16.93	55.33 16.86	55.43 16.91	55.48 16.91	55.43 16.90
10	55.43 16.90	55.23 16.83	55.38 16.88	55.38 16.88	55.33 16.86
11	55.23 16.83	55.23 16.83	55.18 16.82	55.18 16.82	55.13 16.80
12	55.13 16.80	55.13 16.80	55.08 16.79	55.08 16.79	55.05 16.78
13	55.05 16.78	55.10 16.79	55.15 16.81	55.20 16.82	55.25 16.84
14	56.85 17.33	57.30 17.47	57.75 17.60	58.05 17.69	58.35 17.79
15	58.95 17.97	59.00 17.98	59.05 18.00	59.05 18.00	59.00 17.98
16	58.45 17.82	58.40 17.80	58.35 17.79	58.25 17.75	58.15 17.72
17	57.05 17.39	56.95 17.36	56.85 17.33	56.75 17.30	56.65 17.27
18	56.20 17.13	56.10 17.10	56.00 17.07	55.95 17.05	55.90 17.04
19	55.60 16.95	55.60 16.95	55.50 16.92	55.40 16.89	55.30 16.86
20	54.90 16.73	54.85 16.72	54.80 16.70	54.75 16.69	54.70 16.67
21	54.60 16.64	54.60 16.64	54.60 16.64	54.60 16.64	54.60 16.64
22	54.60 16.64	54.60 16.64	54.60 16.64	54.60 16.64	54.60 16.64
23	54.60 16.64	54.60 16.64	54.60 16.64	54.60 16.64	54.60 16.64
24	54.40 16.58	54.40 16.58	54.35 16.57	54.30 16.55	54.20 16.52
25	53.90 16.43	53.85 16.41	53.75 16.38	53.70 16.37	53.60 16.34
26	53.40 16.28	53.40 16.28	53.35 16.26	53.30 16.25	53.20 16.22
27	53.00 16.15	52.95 16.14	52.90 16.12	52.85 16.11	52.75 16.08
28	52.55 16.02	52.50 16.00	52.50 16.00	52.50 16.00	52.45 15.99
29	52.30 15.94	52.30 15.94	52.25 15.93	52.20 15.91	52.15 15.90
30	51.95 15.83	51.95 15.83	51.95 15.83	51.90 15.82	51.85 15.80
31	51.65 15.74	51.60 15.73	51.55 15.71	51.55 15.71	51.50 15.70

PLACE ---MUKONGARI

OCT. 1973

GAUGE NO. 0" J 11 LB

B.M. LEVEL 56.05 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	48.60 14.81	48.60 14.81	48.60 14.81	48.60 14.81	48.60 14.81
2	48.65 14.83	48.65 14.83	48.65 14.83	48.65 14.83	48.65 14.83
3	48.70 14.84	48.70 14.84	48.70 14.84	48.75 14.86	48.80 14.87
4	48.95 14.92	48.95 14.92	49.00 14.94	49.05 14.95	49.10 14.97
5	49.35 15.04	49.40 15.06	49.40 15.06	49.40 15.06	49.40 15.06
6	49.20 15.00	49.20 15.00	49.15 14.98	49.10 14.97	49.05 14.95
7	48.65 14.83	48.60 14.81	48.55 14.80	48.50 14.78	48.45 14.77
8	48.10 14.66	48.00 14.63	47.95 14.62	47.90 14.60	47.85 14.58
9	47.70 14.54	47.70 14.54	47.70 14.54	47.70 14.54	47.70 14.54
10	47.70 14.54	47.70 14.54	47.70 14.54	47.80 14.57	47.75 14.55
11	47.60 14.51	47.65 14.52	47.55 14.49	47.50 14.48	47.45 14.46
12	47.25 14.40	47.30 14.42	47.35 14.43	47.35 14.43	47.35 14.43
13	47.65 14.52	47.85 14.58	48.05 14.65	48.25 14.71	48.45 14.77
14	48.90 14.90	49.10 14.97	49.30 15.03	49.50 15.09	49.60 15.12
15	50.90 15.51	51.10 15.58	51.15 15.59	51.15 15.59	51.20 15.61
16	50.95 15.53	50.05 15.26	50.75 15.47	50.60 15.42	50.45 15.38
17	49.75 15.16	49.60 15.12	49.45 15.07	49.25 15.01	49.05 14.95
18	48.35 14.74	48.25 14.71	48.15 14.68	48.00 14.63	47.85 14.58
19	47.35 14.43	47.25 14.40	47.15 14.37	47.05 14.34	46.95 14.31
20	46.65 14.22	46.55 14.19	46.50 14.17	46.45 14.16	46.40 14.14
21	46.15 14.07	46.15 14.07	46.10 14.05	46.05 14.04	46.00 14.02
22	45.75 13.94	45.70 13.93	45.65 13.91	45.60 13.90	45.55 13.88
23	45.55 13.88	45.55 13.88	45.55 13.88	45.60 13.90	45.65 13.91
24	45.85 13.98	45.85 13.98	45.85 13.98	45.85 13.98	45.85 13.98
25	45.75 13.94	45.75 13.94	45.70 13.93	45.65 13.91	45.60 13.90
26	45.35 13.82	45.30 13.81	45.25 13.79	45.20 13.78	45.15 13.76
27	44.90 13.69	44.85 13.67	44.80 13.66	44.75 13.64	44.70 13.62
28	44.45 13.55	44.40 13.53	44.35 13.52	44.25 13.49	44.15 13.46
29	43.75 13.34	43.80 13.35	43.75 13.34	43.75 13.34	43.70 13.32
30	43.60 13.29	43.60 13.29	43.55 13.27	43.55 13.27	43.50 13.26
31	43.30 13.20	43.25 13.18	43.20 13.17	43.15 13.15	43.10 13.14

PLACE---MILONPUR

OCT. 1973

GAUGE NO. 76

B.M. LEVEL 60.18 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	48.67 14.83	48.67 14.83	48.67 14.83	48.62 14.82	48.62 14.82
2	48.57 14.80	48.57 14.80	48.57 14.80	48.57 14.80	48.52 14.79
3	48.47 14.77	48.42 14.76	48.42 14.76	48.37 14.74	48.37 14.74
4	48.32 14.73	48.32 14.73	48.32 14.73	48.27 14.71	48.27 14.71
5	48.22 14.70	48.22 14.70	48.17 14.68	48.17 14.68	48.17 14.68
6	48.02 14.64	47.97 14.62	47.92 14.61	47.87 14.59	47.82 14.58
7	47.62 14.51	47.62 14.51	47.57 14.50	47.57 14.50	47.47 14.47
8	47.32 14.42	47.32 14.42	47.27 14.41	47.27 14.41	47.22 14.39
9	47.15 14.37	47.15 14.37	47.15 14.37	47.10 14.36	47.10 14.36
10	47.05 14.34	47.05 14.34	47.00 14.33	46.95 14.31	46.95 14.31
11	46.80 14.26	46.80 14.26	46.75 14.25	46.75 14.25	46.70 14.23
12	46.60 14.20	46.60 14.20	46.55 14.19	46.55 14.19	46.55 14.19
13	46.55 14.19	46.55 14.19	46.55 14.19	46.60 14.20	46.65 14.22
14	48.15 14.68	48.40 14.75	48.95 14.92	49.15 14.98	49.45 15.07
15	50.85 15.50	50.95 15.53	51.05 15.56	51.10 15.58	51.10 15.58
16	50.85 15.50	50.80 15.48	50.65 15.44	50.55 15.41	50.40 15.36
17	49.65 15.13	49.55 15.10	49.45 15.07	49.25 15.01	49.05 14.95
18	48.45 14.77	48.35 14.74	48.25 14.73	48.15 14.68	48.05 14.65
19	47.50 14.48	47.35 14.43	47.35 14.43	47.30 14.42	47.25 14.40
20	46.95 14.31	46.90 14.30	46.85 14.28	46.80 14.26	46.75 14.25
21	46.60 14.20	46.55 14.19	46.55 14.19	46.50 14.17	46.50 14.17
22	46.45 14.16	46.45 14.16	46.45 14.16	46.45 14.16	46.45 14.16
23	46.45 14.16	46.45 14.16	46.45 14.16	46.40 14.14	46.40 14.14
24	46.30 14.11	46.30 14.11	46.25 14.10	46.25 14.10	46.20 14.08
25	45.95 14.01	45.95 14.01	45.90 13.99	45.85 13.98	45.75 13.94
26	45.50 13.87	45.45 13.85	45.40 13.84	45.40 13.84	45.35 13.82
27	45.05 13.73	45.00 13.72	44.95 13.70	44.90 13.69	44.85 13.67
28	44.60 13.59	44.55 13.58	44.50 13.56	44.45 13.55	44.40 13.53
29	44.25 13.49	44.20 13.47	44.20 13.47	44.15 13.46	44.15 13.46
30	44.00 13.41	43.95 13.40	43.90 13.38	43.85 13.37	43.80 13.35
31	43.60 13.29	43.60 13.29	43.55 13.27	43.50 13.26	43.45 13.24

PLACE---KANDIPARA

OCT, 1973

GAUGE NO. 28 J 5 L D

B.M. LEVEL 42.23 FEET

DATE	0600 HOURS FEET METRES	0900 HOURS FEET METRES	1200 HOURS FEET METRES	1500 HOURS FEET METRES	1800 HOURS FEET METRES
1	34.05 10.38	34.05 10.38	34.05 10.38	34.05 10.38	34.05 10.38
2	34.05 10.38	34.05 10.38	34.05 10.38	34.05 10.38	34.05 10.38
3	34.05 10.38	34.05 10.38	34.05 10.38	34.05 10.38	34.05 10.38
4	34.15 10.41	34.15 10.41	34.20 10.42	34.20 10.42	34.20 10.42
5	34.25 10.44	34.25 10.44	34.25 10.44	34.25 10.44	34.25 10.44
6	34.30 10.45	34.30 10.45	34.25 10.44	34.25 10.44	34.20 10.42
7	33.95 10.35	33.90 10.33	33.85 10.32	33.80 10.30	33.75 10.29
8	33.55 10.23	33.50 10.21	33.45 10.20	33.45 10.20	33.40 10.18
9	33.35 10.17	33.35 10.17	33.35 10.17	33.35 10.17	33.30 10.15
10	33.30 10.15	33.30 10.15	33.25 10.13	33.25 10.13	33.25 10.13
11	33.25 10.13	33.25 10.13	33.25 10.13	33.20 10.12	33.20 10.12
12	33.00 10.06	33.10 10.09	33.10 10.09	33.05 10.07	33.00 10.06
13	32.90 10.03	32.90 10.03	32.90 10.03	32.90 10.03	32.90 10.03
14	33.00 10.06	33.15 10.10	33.30 10.15	33.50 10.21	33.75 10.29
15	35.00 10.67	35.20 10.73	35.30 10.76	35.45 10.81	35.50 10.82
16	35.65 10.87	35.65 10.87	35.65 10.87	35.60 10.85	35.55 10.84
17	35.05 10.68	34.95 10.65	34.85 10.62	34.75 10.59	34.65 10.56
18	34.15 10.41	34.05 10.38	33.95 10.35	33.85 10.32	33.75 10.29
19	33.25 10.13	33.15 10.10	33.10 10.06	32.95 10.04	32.90 10.03
20	32.55 9.92	32.45 9.89	32.40 9.88	32.30 9.85	32.15 9.80
21	31.75 9.68	31.55 9.62	31.40 9.57	31.30 9.54	31.20 9.51
22	30.95 9.43	30.95 9.43	30.90 9.42	30.90 9.42	30.85 9.40
23	30.80 9.39	30.80 9.39	30.80 9.39	30.75 9.37	30.75 9.37
24	30.65 9.34	30.65 9.34	30.60 9.33	30.55 9.31	30.50 9.30
25	30.35 9.25	30.30 9.24	30.25 9.22	30.20 9.20	30.15 9.19
26	30.00 9.14	29.95 9.13	29.85 9.10	29.80 9.08	29.75 9.07
27	29.55 9.01	29.55 9.01	29.50 8.99	29.50 8.99	29.45 8.98
28	29.15 8.88	29.10 8.87	29.05 8.85	29.00 8.84	28.90 8.81
29	28.70 8.75	28.65 8.73	28.55 8.70	28.50 8.69	28.45 8.67
30	28.30 8.63	28.30 8.63	28.25 8.61	28.25 8.61	28.20 8.60
31	28.00 8.53	28.00 8.53	27.95 8.52	27.95 8.52	27.90 8.50

PLACE --- BAKTARPUR

OCT. 1973

GAUGE NO. 30 JR

B.M. LEVEL

DATE	0600 HOURS FEET	HOURS METRES	0900 HOURS FEET	HOURS METRES	1200 HOURS FEET	HOURS METRES	1500 HOURS FEET	HOURS METRES	1800 HOURS FEET	HOURS METRES
1	29.94	9.13	29.94	9.13	29.94	9.13	29.94	9.13	29.94	9.13
2	29.94	9.13	29.94	9.13	29.99	9.14	29.99	9.14	29.99	9.14
3	29.89	9.11	29.84	9.10	29.79	9.08	29.79	9.08	29.74	9.06
4	29.64	9.03	29.64	9.03	29.59	9.02	29.59	9.02	29.54	9.00
5	29.44	8.97	29.44	8.97	29.39	8.96	29.34	8.94	29.34	8.94
6	29.29	8.93	29.29	8.93	29.29	8.93	29.29	8.93	29.29	8.93
7	29.29	8.93	29.29	8.93	29.15	8.88	29.19	8.90	29.19	8.90
8	29.19	8.90	29.19	8.90	29.19	8.90	29.04	8.85	29.04	8.85
9	29.04	8.85	29.04	8.85	29.04	8.85	29.04	8.85	29.04	8.85
10	29.04	8.85	29.04	8.85	29.04	8.85	29.04	8.85	29.04	8.85
11	29.09	8.87	29.09	8.87	29.09	8.87	29.09	8.87	29.09	8.87
12	29.14	8.88	29.14	8.88	29.14	8.88	29.14	8.88	29.14	8.88
13	28.94	8.82	28.84	8.82	28.89	8.81	28.89	8.81	28.84	8.79
14	28.84	8.79	28.84	8.79	28.84	8.79	28.89	8.81	28.94	8.82
15	28.59	8.71	29.69	9.05	29.79	9.08	29.89	9.11	29.94	9.13
16	30.04	9.16	30.04	9.16	30.04	9.16	29.99	9.14	29.99	9.14
17	29.84	9.10	29.79	9.08	29.74	9.06	29.69	9.05	29.64	9.03
18	29.29	8.93	29.24	8.91	29.24	8.91	29.04	8.85	28.94	8.82
19	28.54	8.70	28.54	8.70	28.44	8.67	28.34	8.64	28.29	8.62
20	27.94	8.52	27.89	8.50	27.79	8.47	27.69	8.44	27.59	8.41
21	27.24	8.30	27.29	8.29	27.09	8.26	27.04	8.24	26.99	8.23
22	26.69	8.14	26.69	8.14	26.64	8.12	26.59	8.10	26.59	8.10
23	26.34	8.03	26.39	8.04	26.39	8.04	26.34	8.03	26.29	8.01
24	26.14	7.97	26.14	7.97	26.24	8.00	26.24	8.00	26.09	7.95
25	26.09	7.95	26.04	7.94	25.94	7.91	25.84	7.88	25.79	7.86
26	25.44	7.75	25.39	7.74	25.34	7.72	25.24	7.69	24.29	7.40
27	25.05	7.64	25.04	7.63	24.94	7.60	24.84	7.57	24.79	7.56
28	24.59	7.50	24.59	7.50	24.49	7.46	24.44	7.45	24.39	7.43
29	24.25	7.39	24.24	7.39	24.24	7.39	24.09	7.34	24.04	7.33
30	23.79	7.25	23.79	7.25	23.74	7.24	23.74	7.24	23.69	7.22
31	23.54	7.17	23.54	7.17	23.49	7.16	23.39	7.13	23.34	7.11

PLACE --- CHORVARENGA

OCT. 1973

GAUGE NO. 31

B.M. LEVEL 37.17 FEET

DATE	0600 HOURS FEET	0900 HOURS METRES	0900 HOURS FEET	1200 HOURS METRES	1200 HOURS FEET	1500 HOURS METRES	1500 HOURS FEET	1800 HOURS METRES	1800 HOURS FEET	HOURS METRES
1	30.92	9.42	30.92	9.42	30.92	9.42	30.92	9.42	30.92	9.42
2	30.92	9.42	30.92	9.42	30.92	9.42	30.87	9.41	30.87	9.41
3	30.82	9.39	30.77	9.38	30.77	9.38	30.72	9.36	30.72	9.36
4	30.57	9.32	30.57	9.32	30.57	9.32	30.52	9.30	30.52	9.30
5	30.47	9.29	30.47	9.29	30.47	9.29	30.47	9.29	30.47	9.29
6	30.47	9.29	30.47	9.29	30.47	9.29	30.47	9.29	30.47	9.29
7	30.32	9.24	30.27	9.23	30.27	9.23	30.22	9.21	30.22	9.21
8	30.12	9.18	30.12	9.18	30.07	9.17	30.07	9.17	30.07	9.17
9	30.02	9.15	30.02	9.15	29.97	9.13	29.97	9.13	29.97	9.13
10	29.97	9.13	29.97	9.13	29.97	9.13	30.02	9.15	30.02	9.15
11	30.07	9.17	30.07	9.17	30.02	9.15	30.02	9.15	30.02	9.15
12	30.02	9.15	30.02	9.15	30.02	9.15	30.07	9.17	30.07	9.17
13	29.92	9.12	29.87	9.10	29.87	9.10	29.87	9.10	29.87	9.10
14	29.82	9.09	29.82	9.09	29.87	9.10	29.92	9.12	30.07	9.17
15	30.67	9.35	30.77	9.38	30.82	9.39	30.87	9.41	30.92	9.42
16	31.22	9.52	31.22	9.52	31.22	9.52	31.17	9.50	31.17	9.50
17	30.92	9.42	30.87	9.41	30.82	9.39	30.77	9.38	30.72	9.36
18	30.37	9.26	30.32	9.24	30.27	9.23	30.17	9.20	30.07	9.17
19	29.72	9.06	29.67	9.04	29.62	9.03	29.52	9.00	29.42	8.97
20	29.02	8.85	28.92	8.81	28.87	8.80	28.82	8.78	28.77	8.77
21	28.42	8.66	28.37	8.65	28.32	8.63	28.27	8.62	28.17	8.59
22	27.92	8.51	27.87	8.49	27.82	8.48	27.77	8.46	27.72	8.45
23	27.47	8.37	27.42	8.36	27.42	8.36	27.37	8.34	27.32	8.33
24	27.22	8.30	27.17	8.28	27.19	8.29	27.12	8.27	27.12	8.27
25	26.92	8.21	26.87	8.19	26.82	8.17	26.77	8.16	26.77	8.16
26	26.82	8.17	26.47	8.09	26.42	8.05	26.37	8.04	26.37	8.04
27	26.07	7.95	26.02	7.93	25.97	7.92	25.92	7.90	25.87	7.89
28	25.62	7.81	25.57	7.79	25.52	7.78	25.52	7.78	25.47	7.76
29	25.27	7.70	25.22	7.69	25.17	7.67	25.12	7.66	25.07	7.64
30	24.82	7.57	24.77	7.55	24.72	7.53	24.67	7.52	24.62	7.50
31	24.07	7.34	24.42	7.44	24.37	7.43	24.32	7.41	24.34	7.42

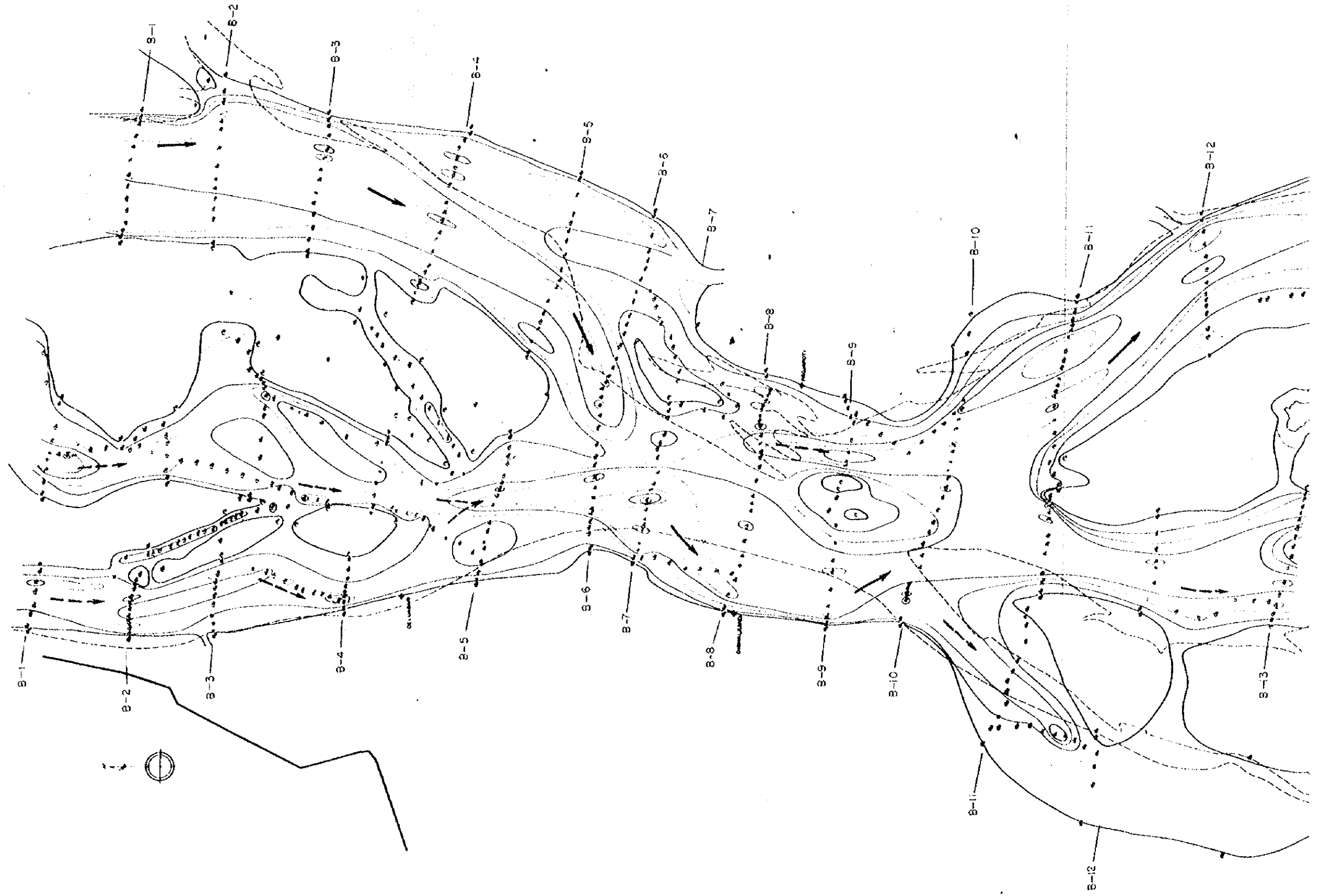
負 料 - 3

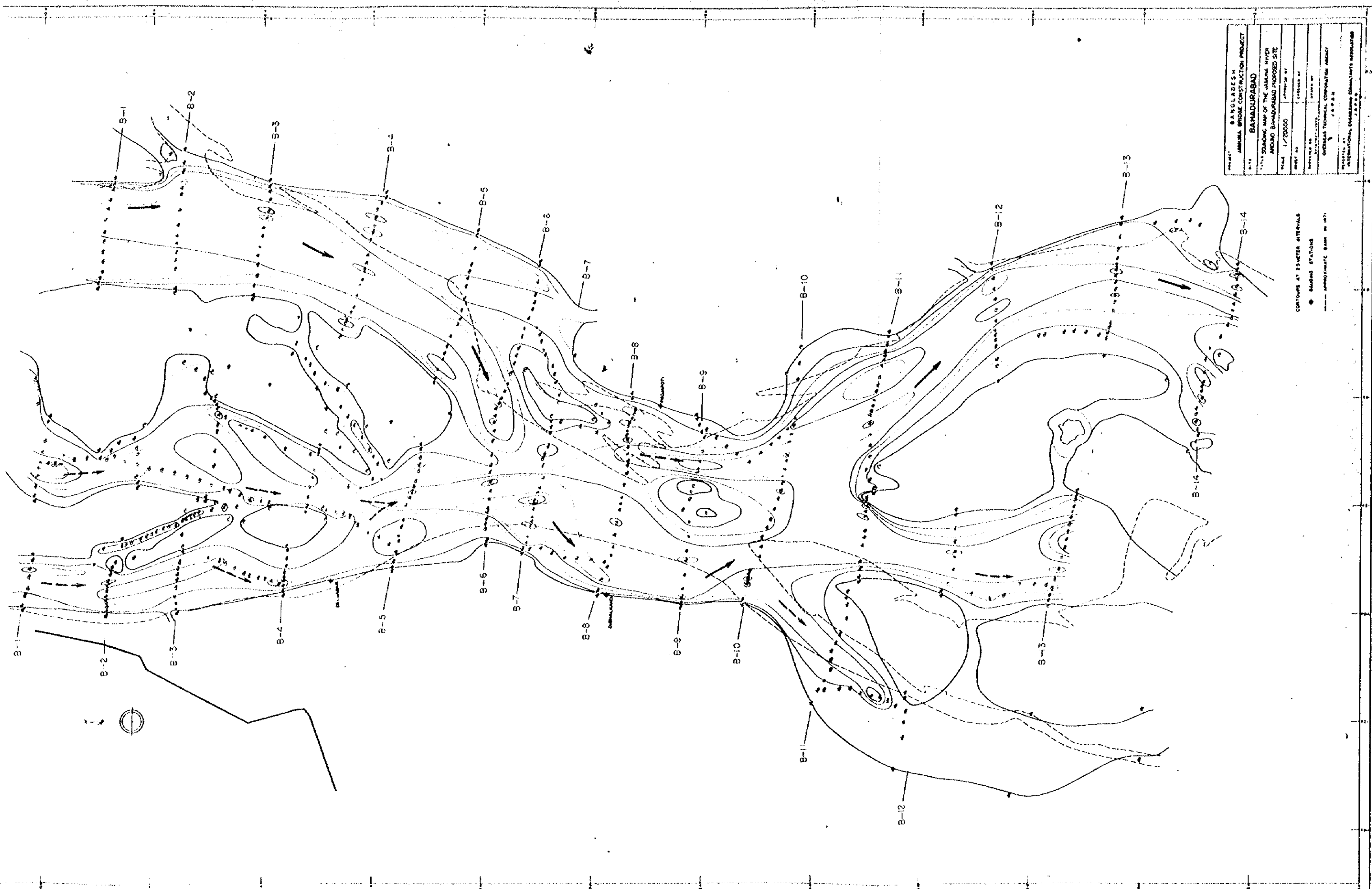
深 淺 図

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河 川 横 断 図

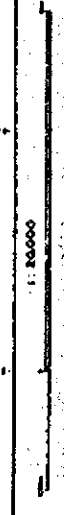
BAHADURABAD



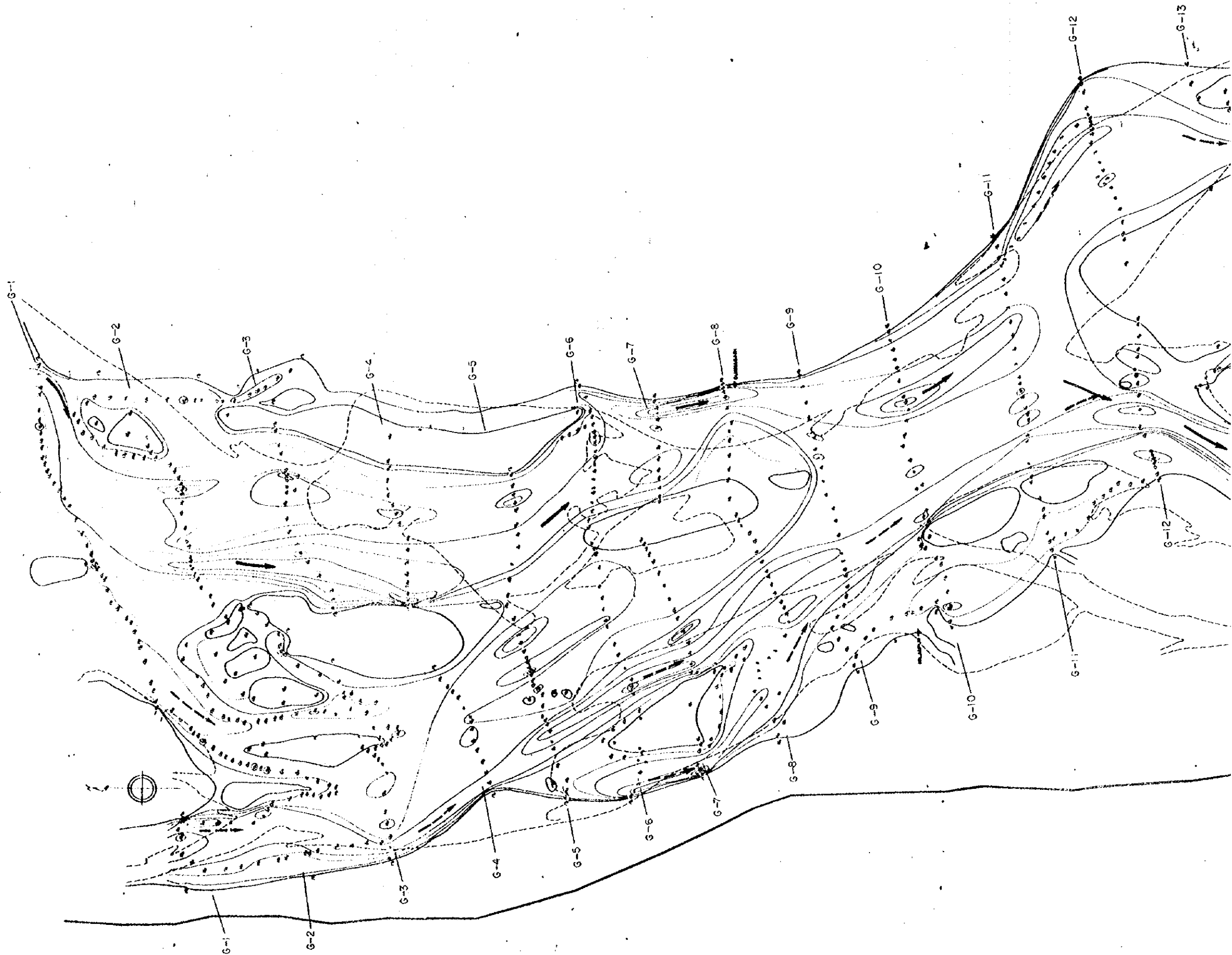


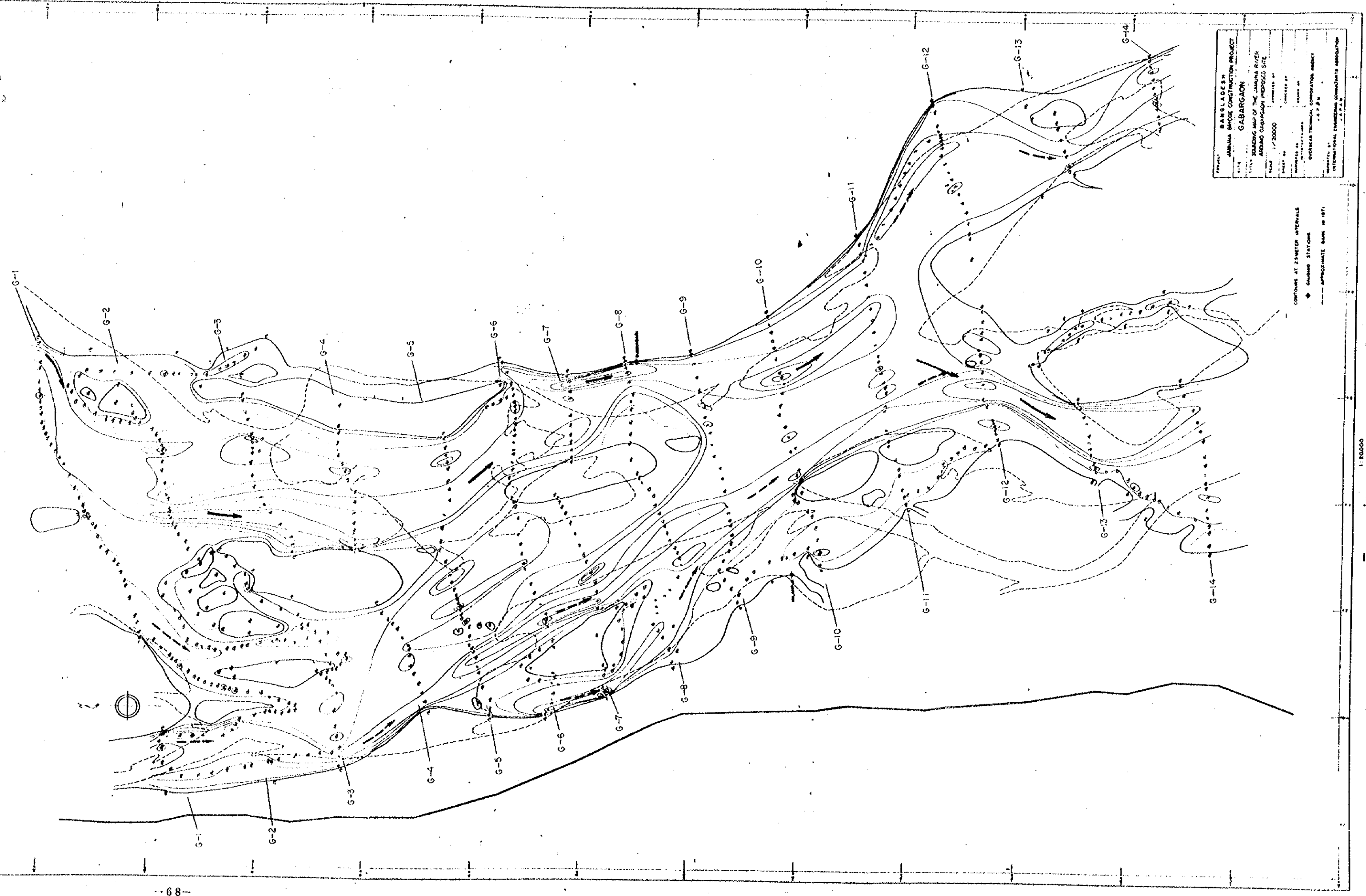
PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		BAHADURABAD	
TITLE		SOUNDING MAP OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE	DATE	PROJECT NO.	DESIGNED BY
1/20000			
REVISED ON	APPROVED BY	PROJECT NO.	DESIGNED BY
1/20000			
DRAWN BY		CHECKED BY	
GENERAL TECHNICAL CORPORATION AGENCY		INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION	
1971		1971	

CONTOURS AT 25-METER INTERVALS
 SOUNDING STATIONS
 APPROXIMATE DAM IN 1971



G A B A R G A O N



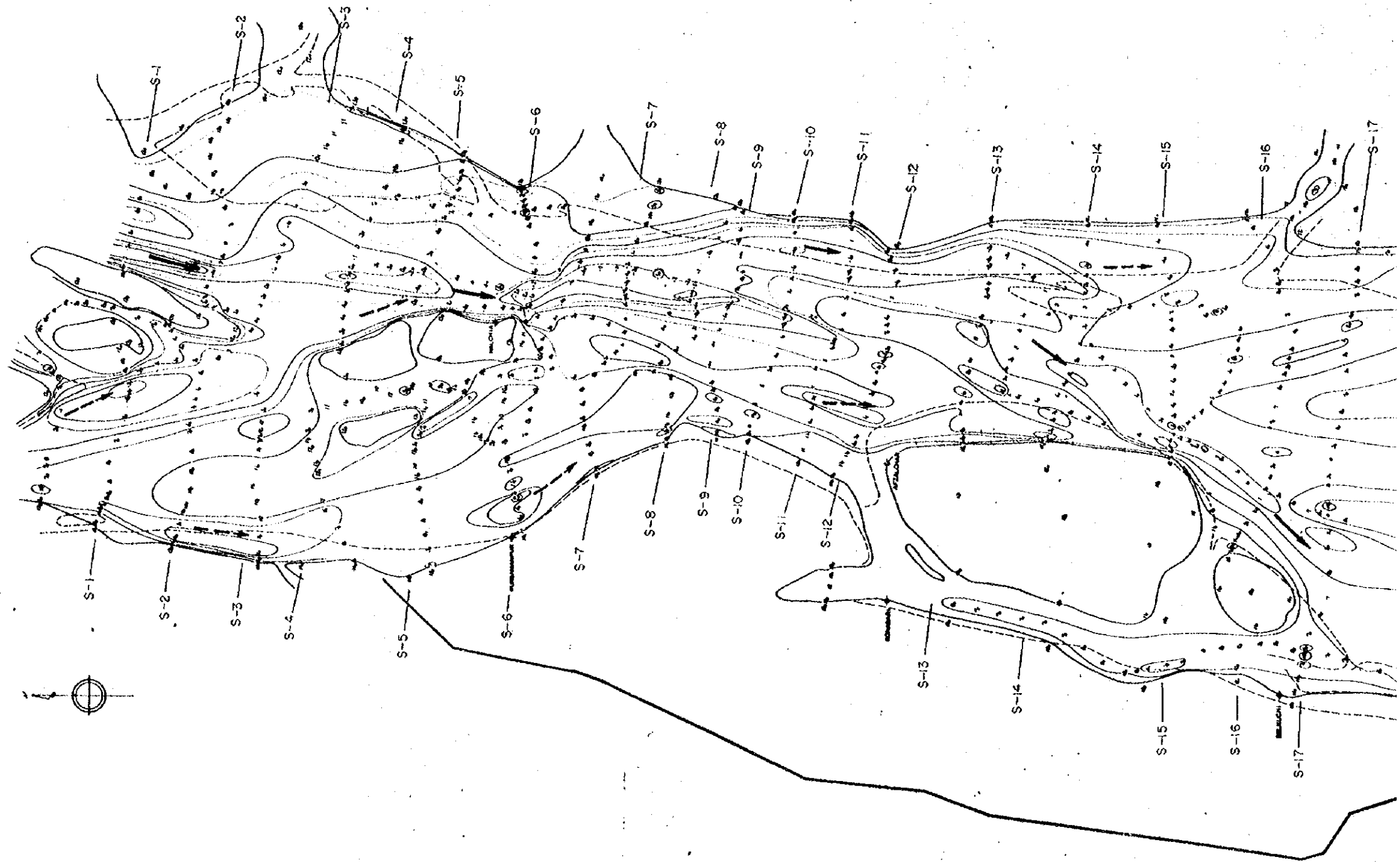


PROJECT: BANGLADESH
 JAMUNA BRIDGE CONSTRUCTION PROJECT
 SITE: GABARGAON
 TITLE: SOUNDING MAP OF THE JAMUNA RIVER
 AROUND GABARGAON PROPOSED SITE
 SCALE: 1:20000
 SHEET NO: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 ORGANIZATION: OVERSEAS TECHNICAL CONSULTANTS AGENCY
 ESTD: 1973
 ADDRESS: 10, RAJABAZAR, DAKKA, BANGLADESH
 AUTHORITY: INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION

CONTOURS AT 2.5 METER INTERVALS
 ◆ GAUGING STATIONS
 --- APPROXIMATE BANK IN 1971

1:20000

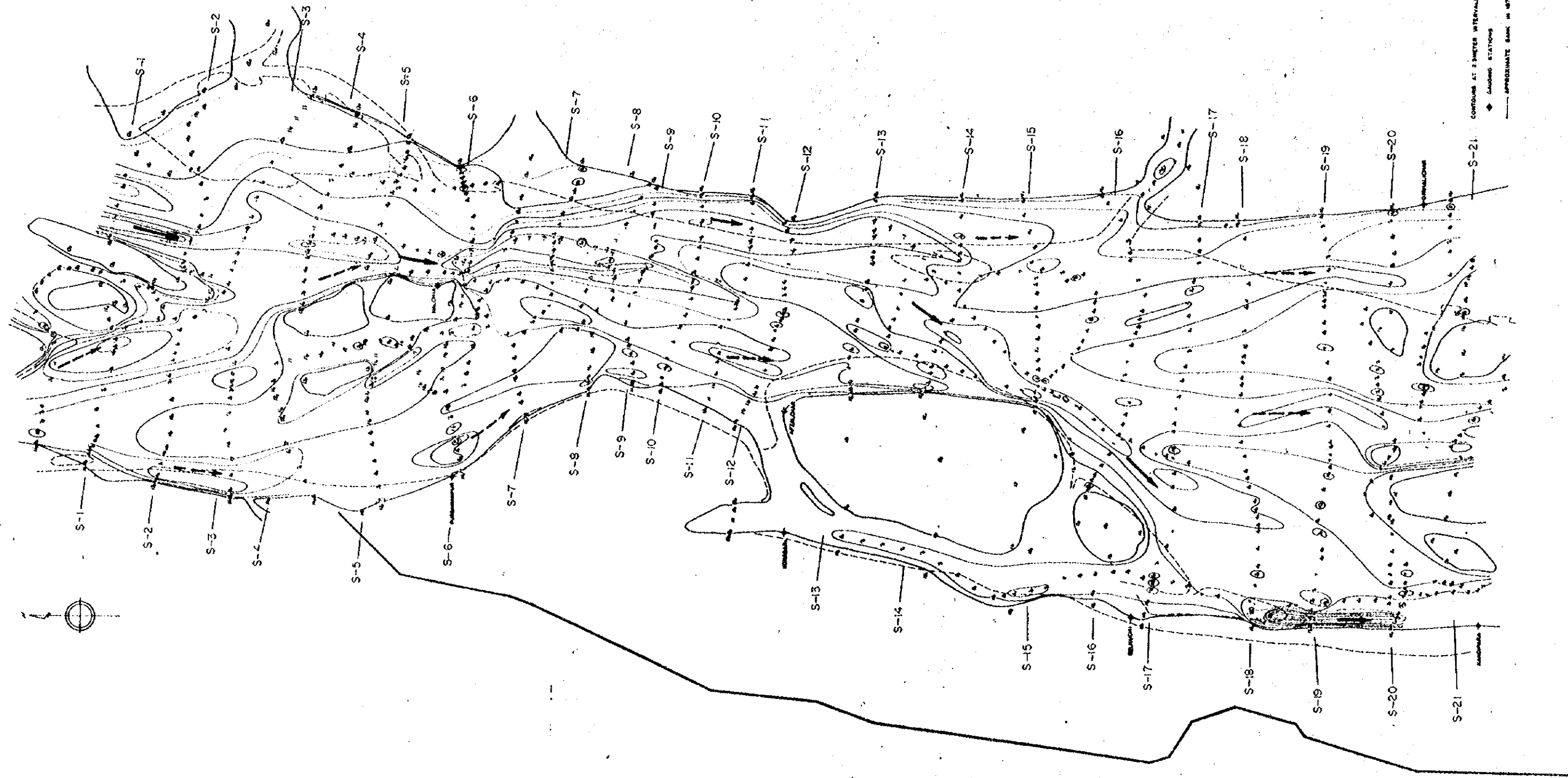
S I R A J G A N J



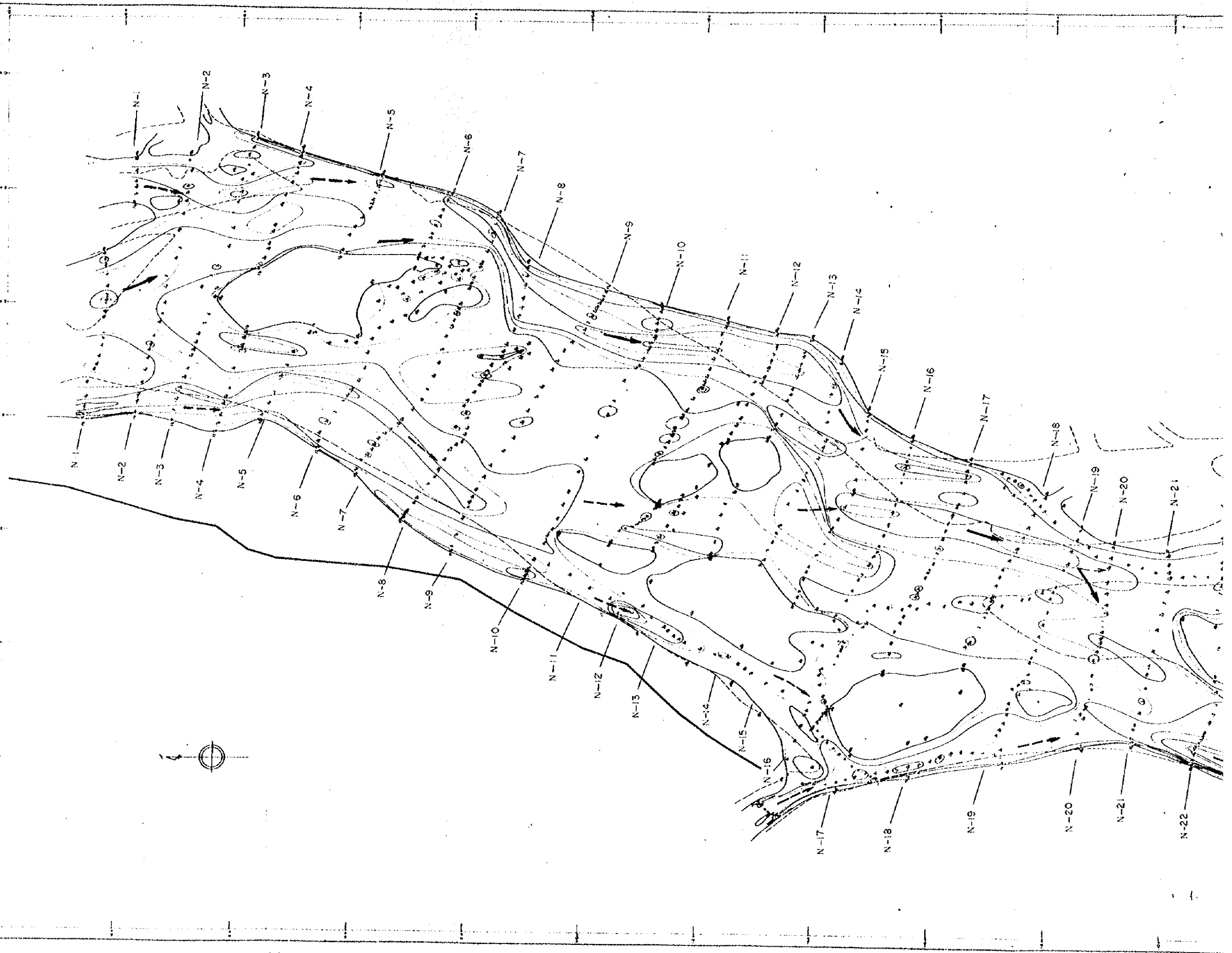
PROJECT: BANGLADESH
JAMUNA BRIDGE CONSTRUCTION PROJECT
SITE: SIRAJGANJ
1:25,000 SLOPING MAP OF THE JAMUNA RIVER
AROUND SIRAJGANJ PROPOSED SITE

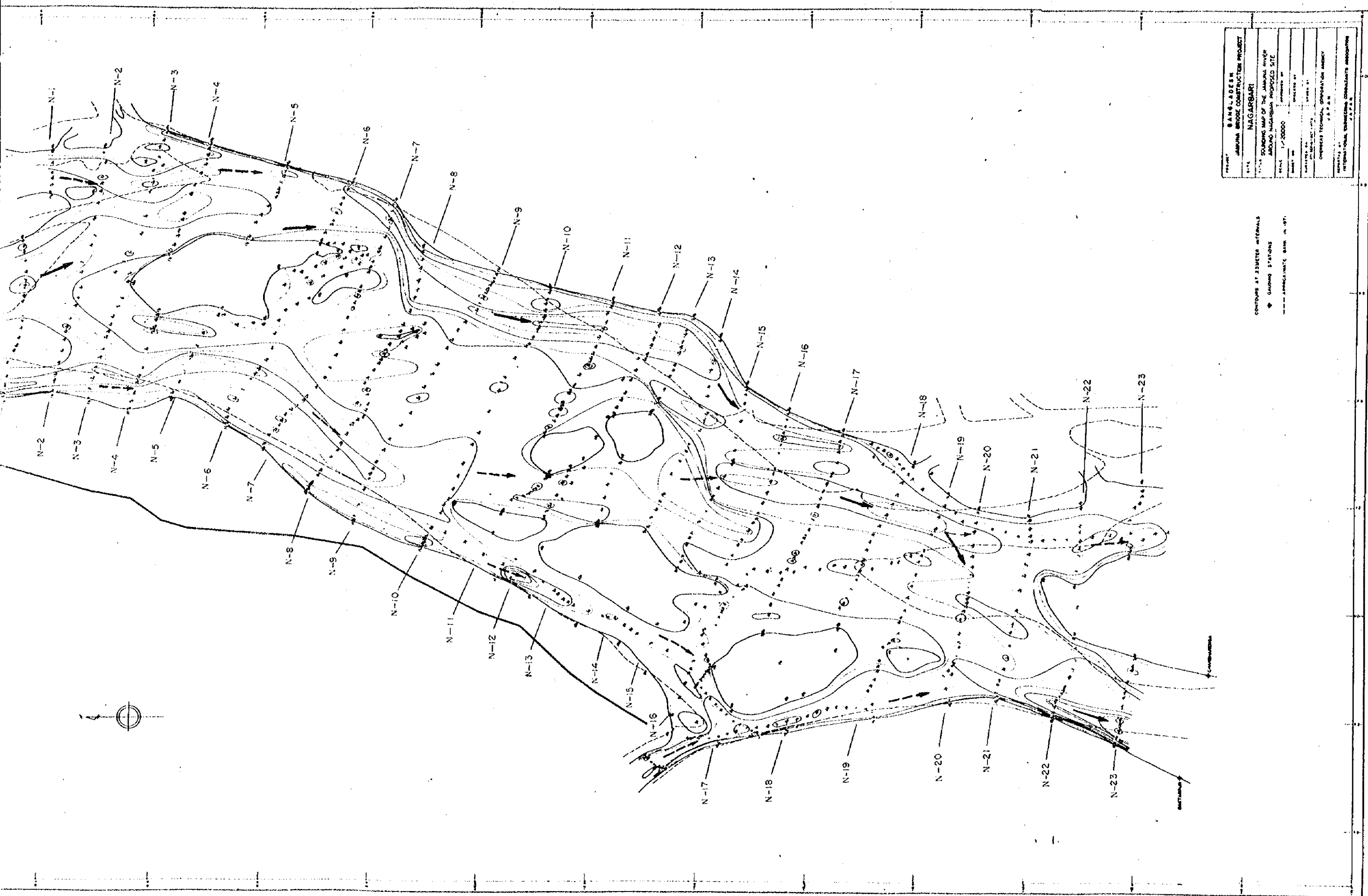
Scale	1/25000	Project No.	
Sheet No.		Sheet Size	
Drawn by		Checked by	
Checked by		Drawn by	
Designated		Designation	
Organization		Organization	
Country		Country	
City		City	
Address		Address	
Telephone		Telephone	
Post Office		Post Office	
Post Code		Post Code	

INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION
J.P.A.E.



NAGARBARI



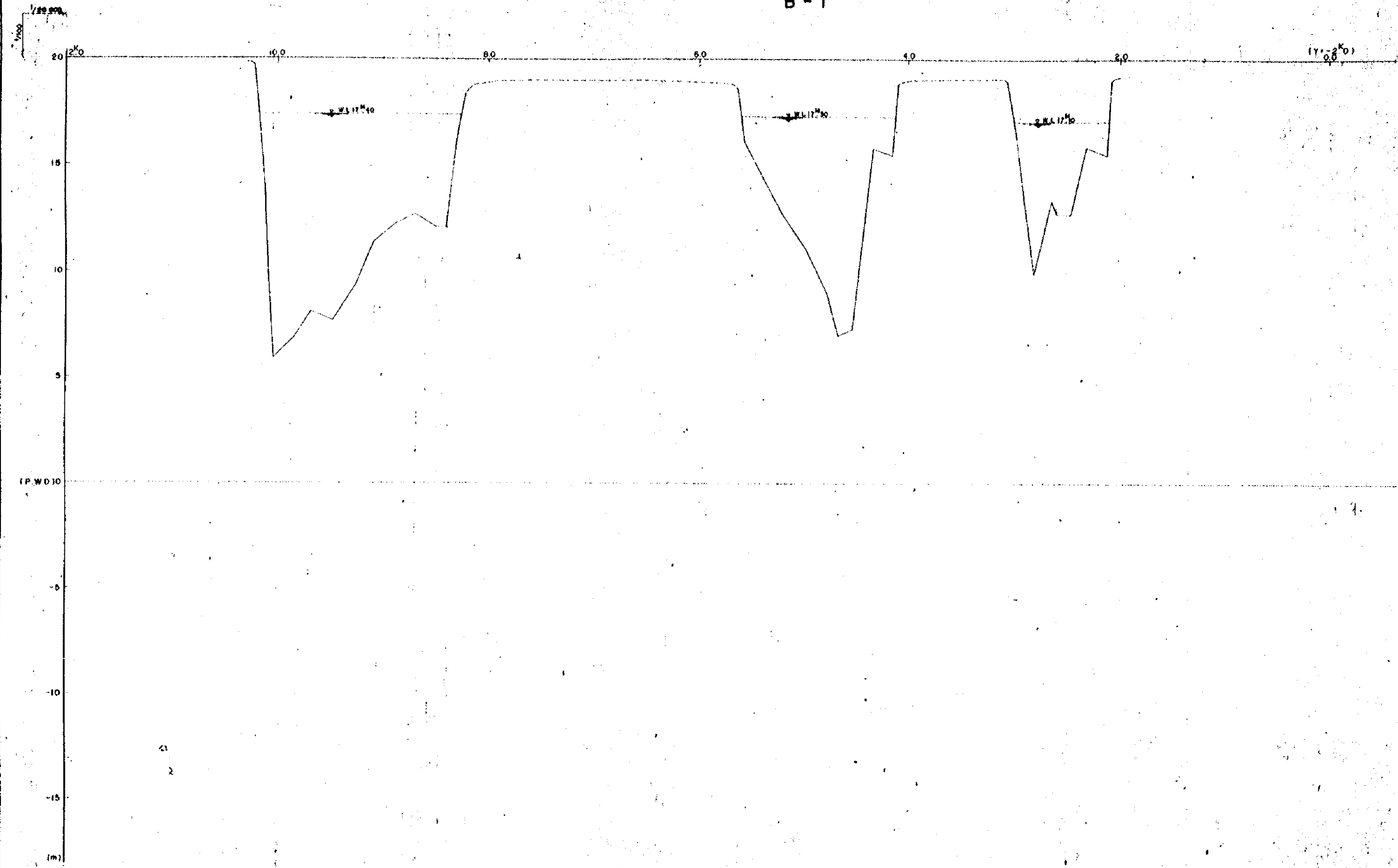


PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT		
SITE	NAGARBARI		
TITLE	SOUNDING MAP OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE		
SCALE	1/20000	DATE	
DRAWN BY		CHECKED BY	
DESIGNED BY		APPROVED BY	
ORGANIZATION	COMBINED TECHNICAL STAFF, INDIAN ARMY		
DATE	1971		
PROJECT NO.	1/20000		
REVISIONS	INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION		

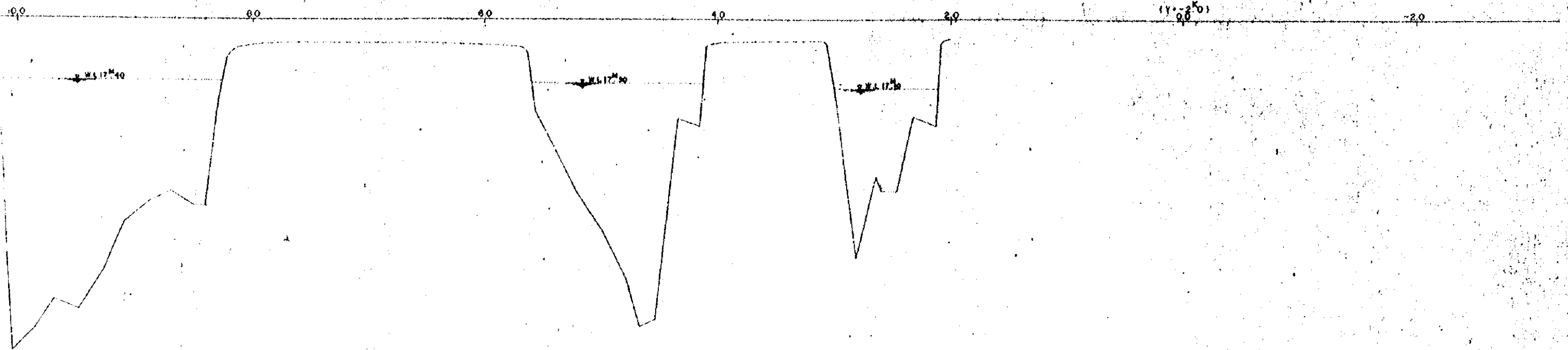
CONTOURS AT 25METER INTERVALS
 ● GAUGING STATIONS
 --- APPROXIMATE BANK IN 1971

1:20000

B - 1

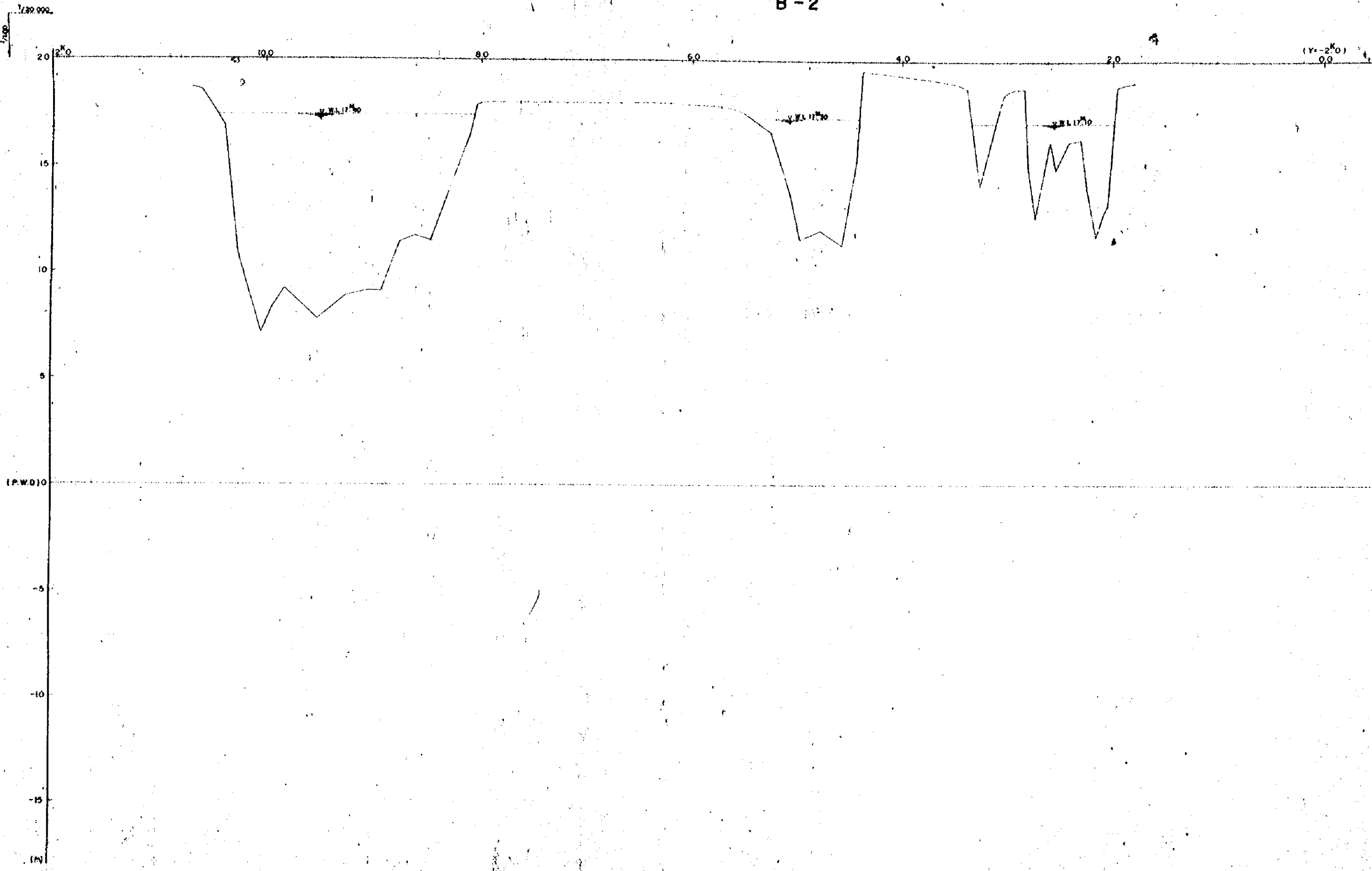


B - 1

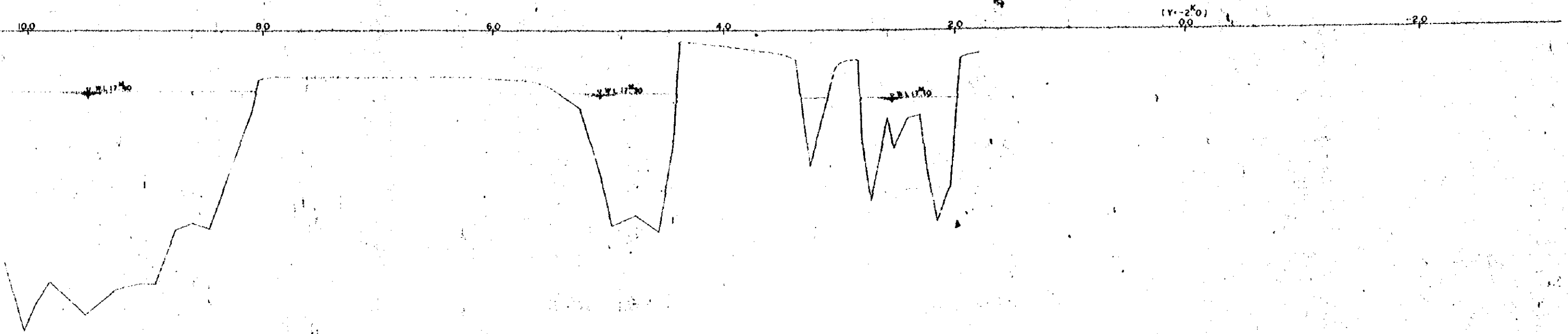


PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B - 1	CHECKED BY
SURVEYED ON 9 - 15 - OCT. 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-2

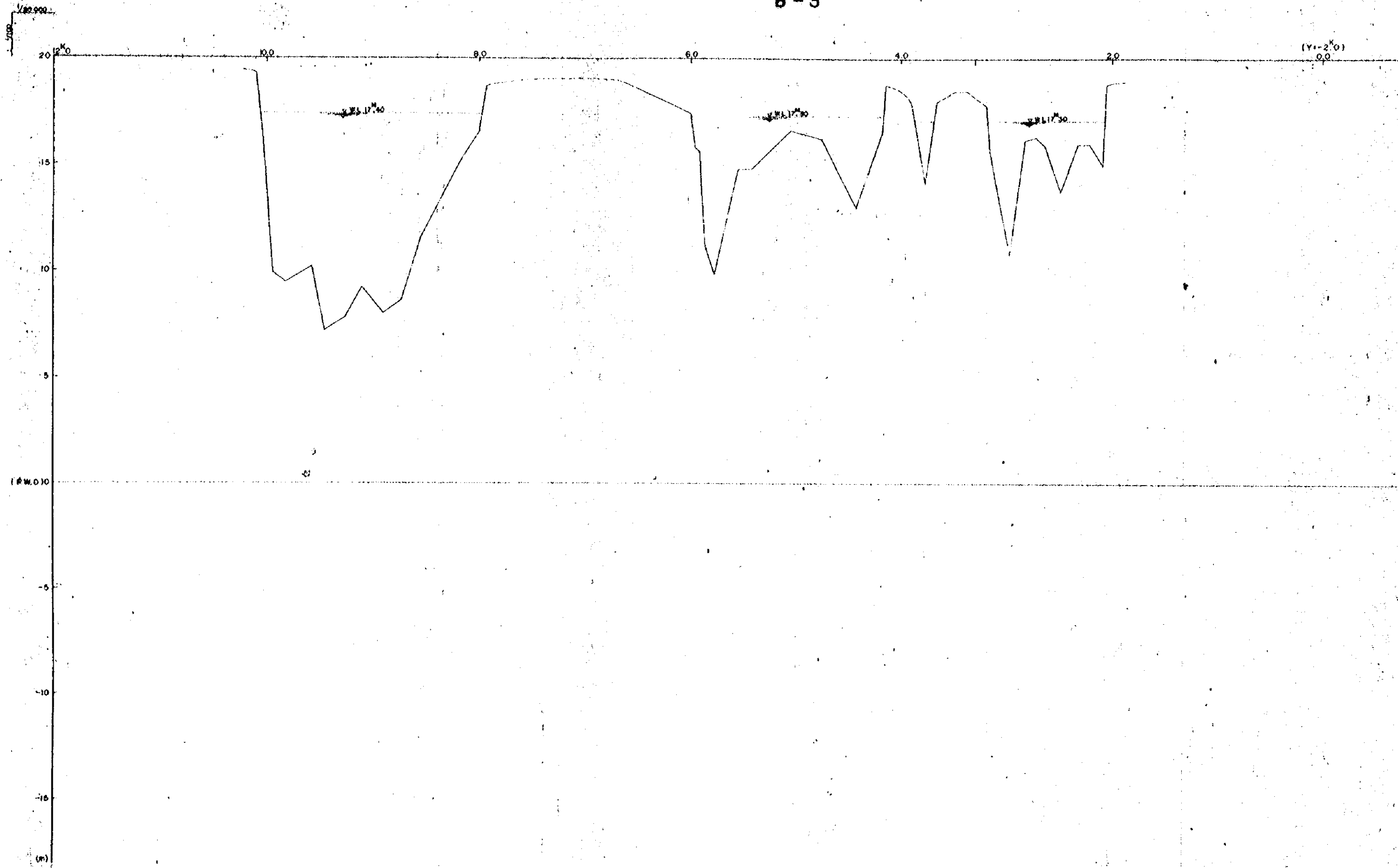


B-2

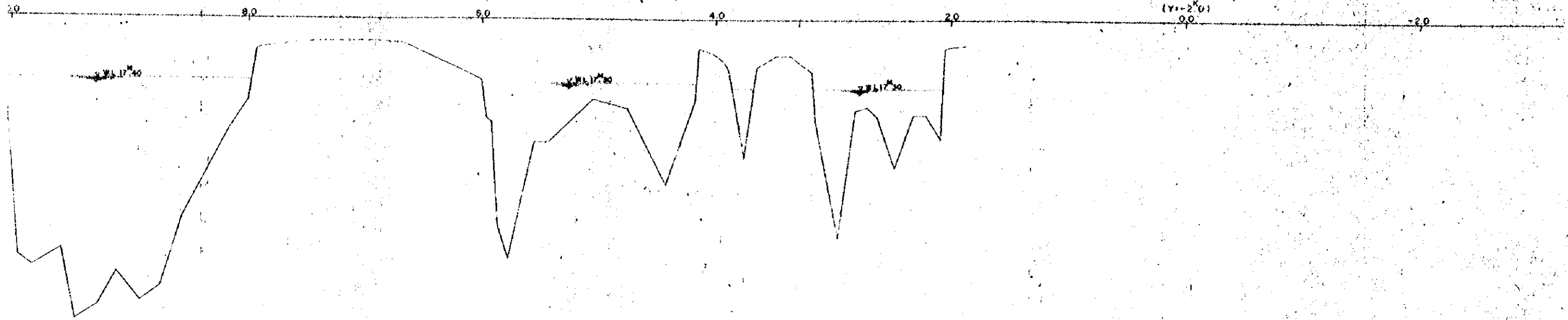


PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B - 2	CHECKED BY
SURVEYED ON 9 - 19 - OCT - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-3

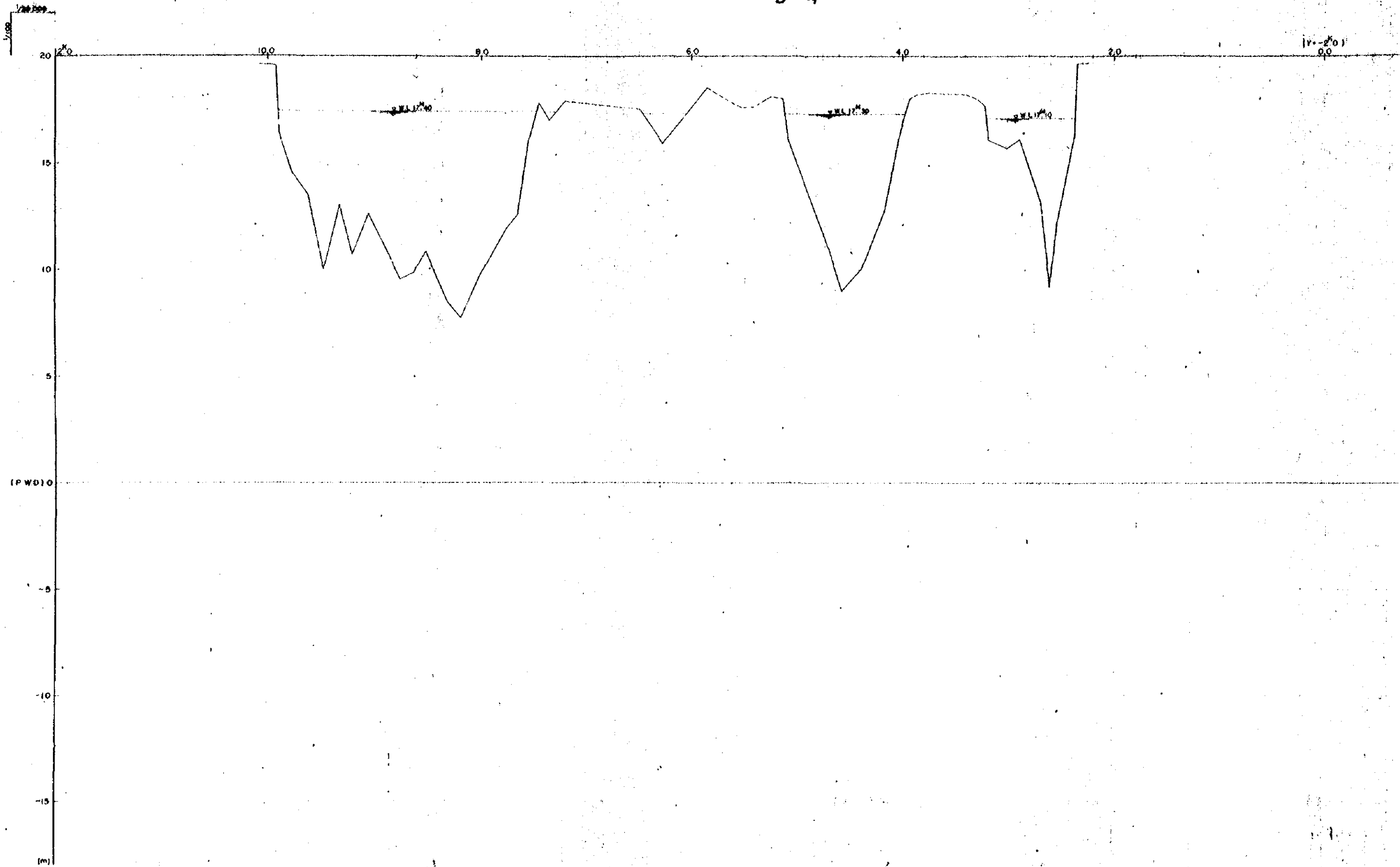


B-3

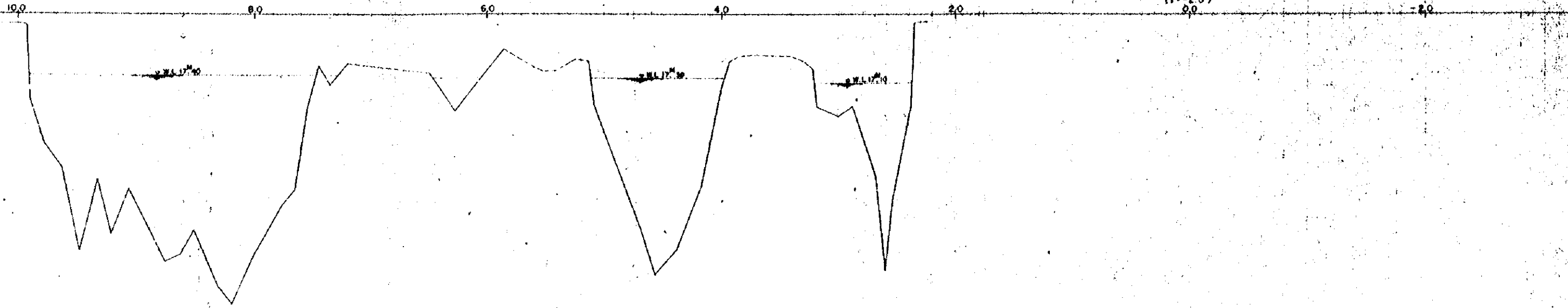


PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1/20000 V = 1/100	APPROVED BY
SHEET NO B-3	CHECKED BY
SURVEYED ON 9-13-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-4

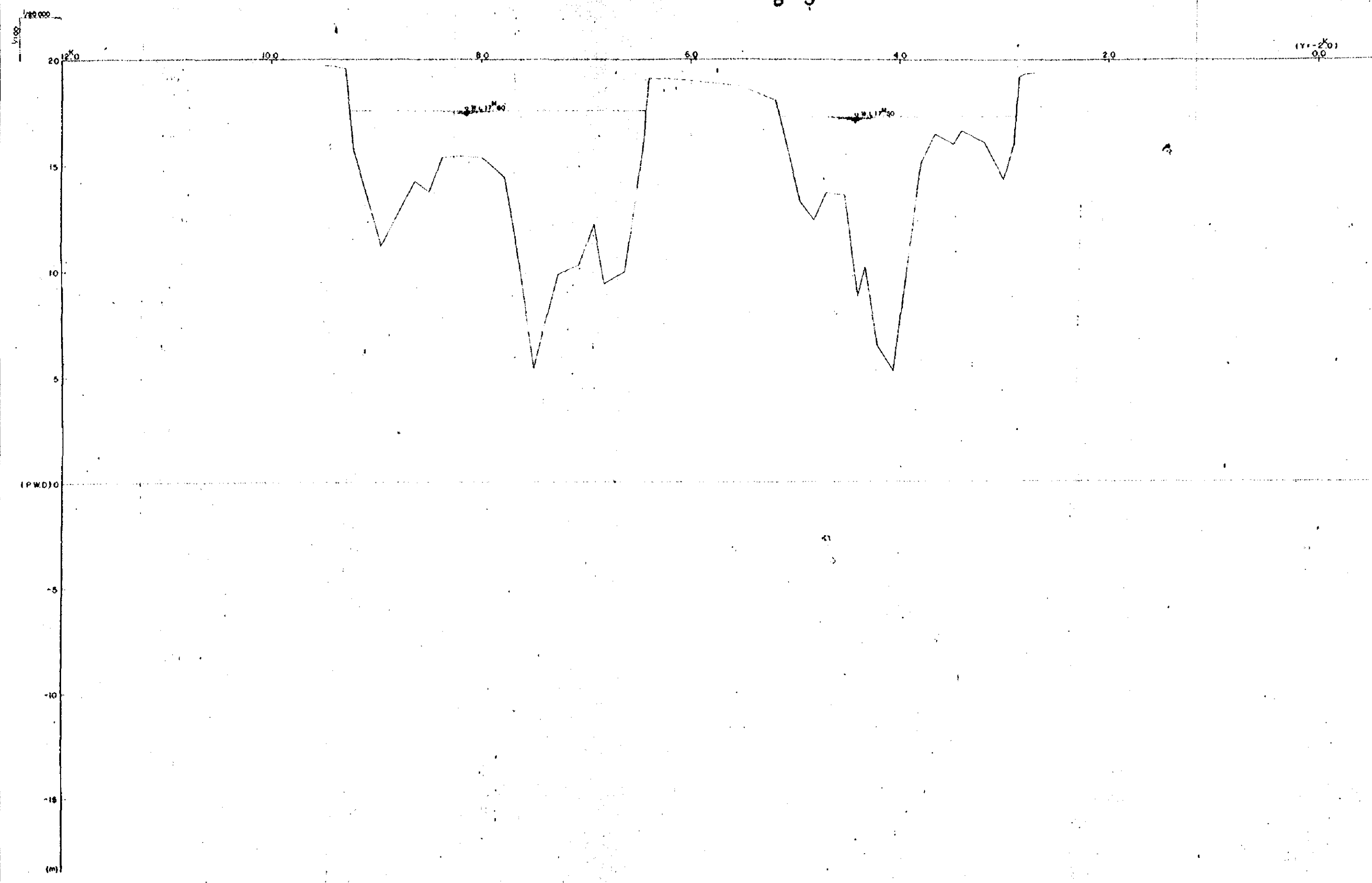


B-4

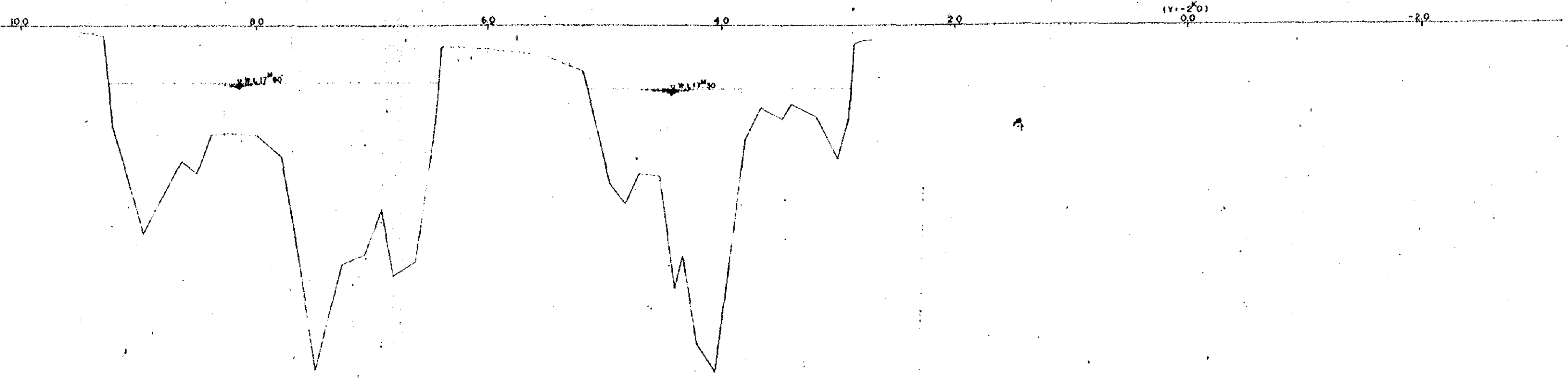


PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1/20 000 V = 1/100	APPROVED BY
SHEET NO. B-4	CHECKED BY
SURVEYED ON 9-16 OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-5

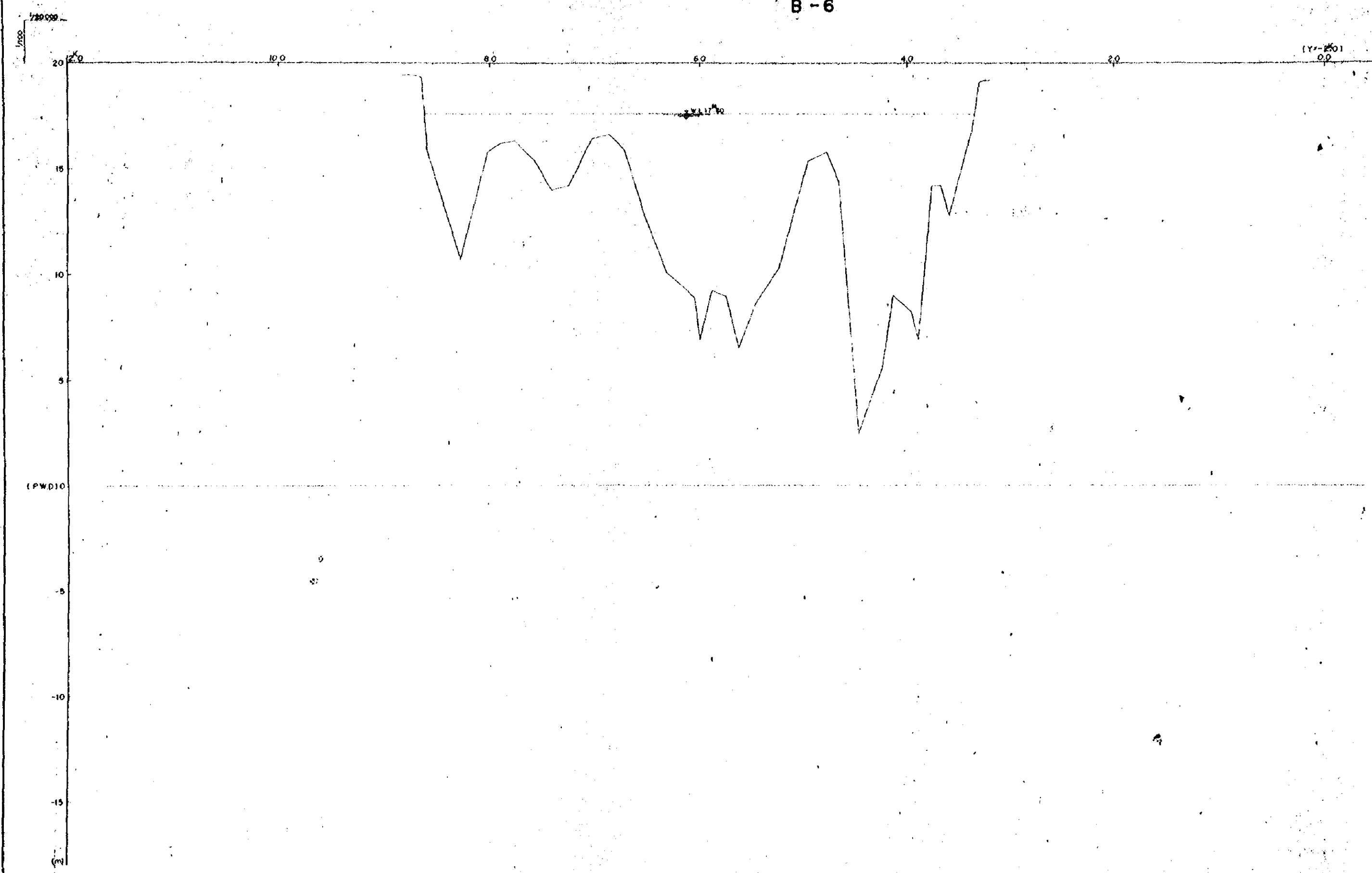


B-5



PROJECT	BANGLADESH	
	JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	BAHADURABAD	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO	B - 5	CHECKED BY
SURVEYED ON	9 - 15 - OCT - 1973	DRAWN BY
	OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY	INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-6



B-6

10.0

8.0

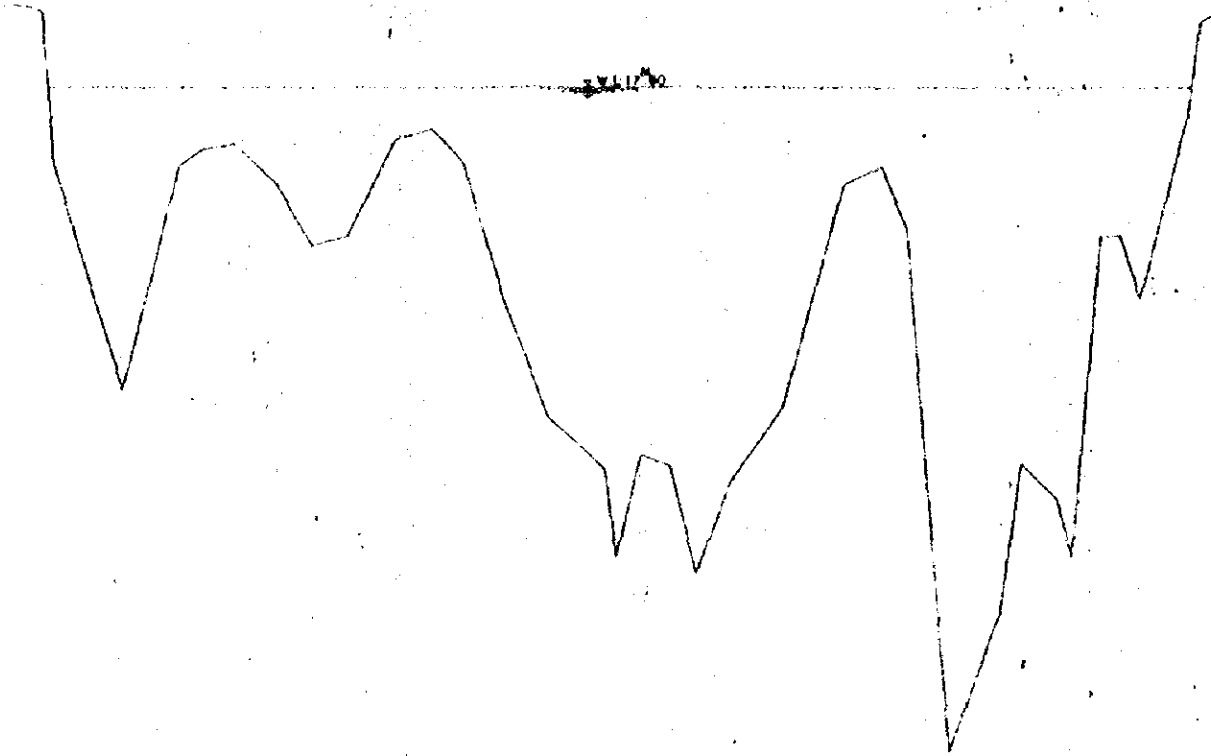
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4.0

2.0

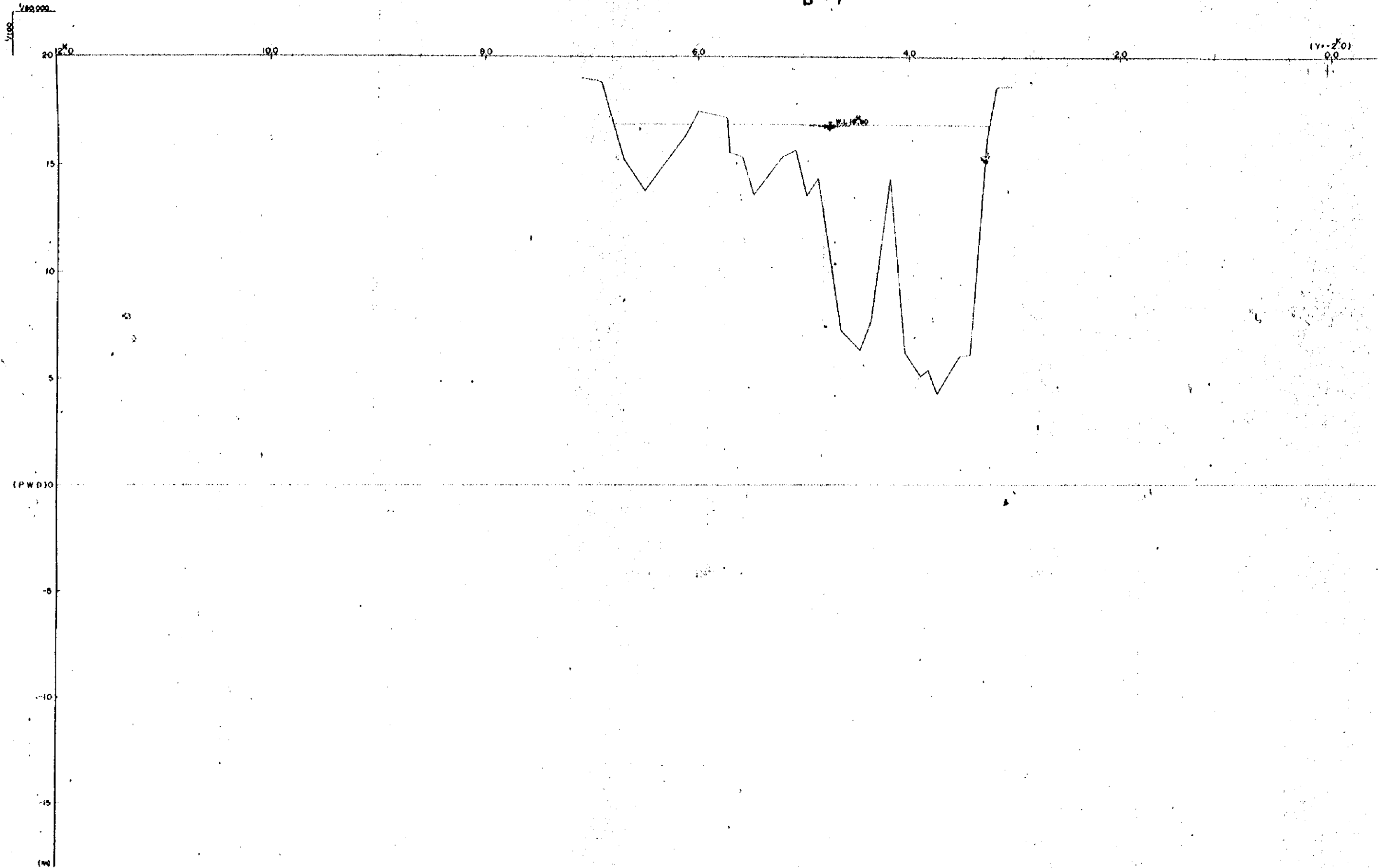
(Y-201)
0.0

-2.0

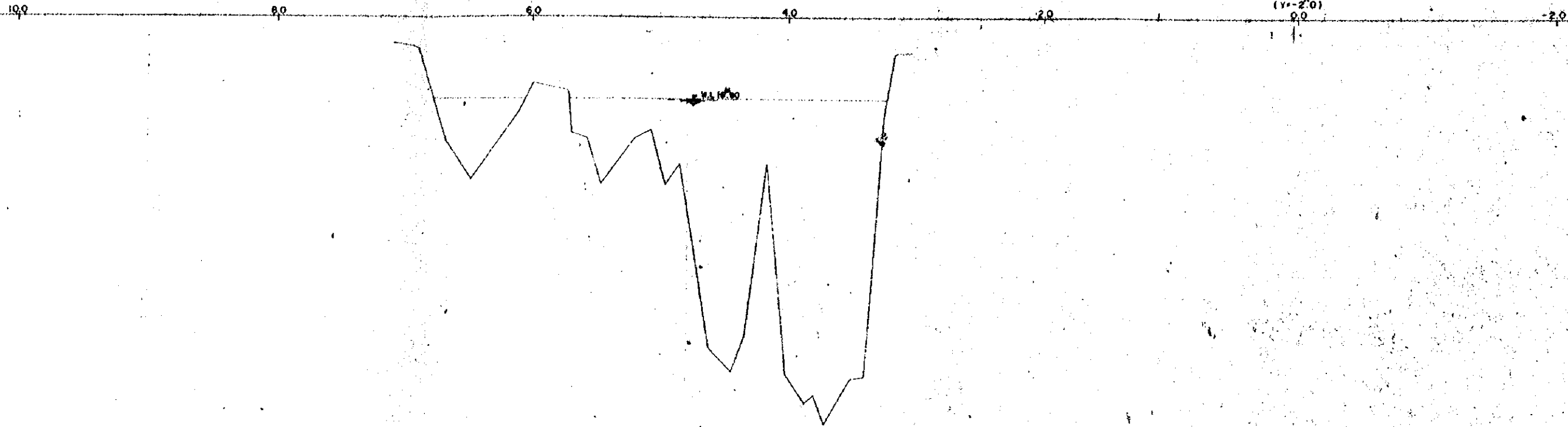


PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B-6	CHECKED BY
SURVEYED ON 9-15-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-7

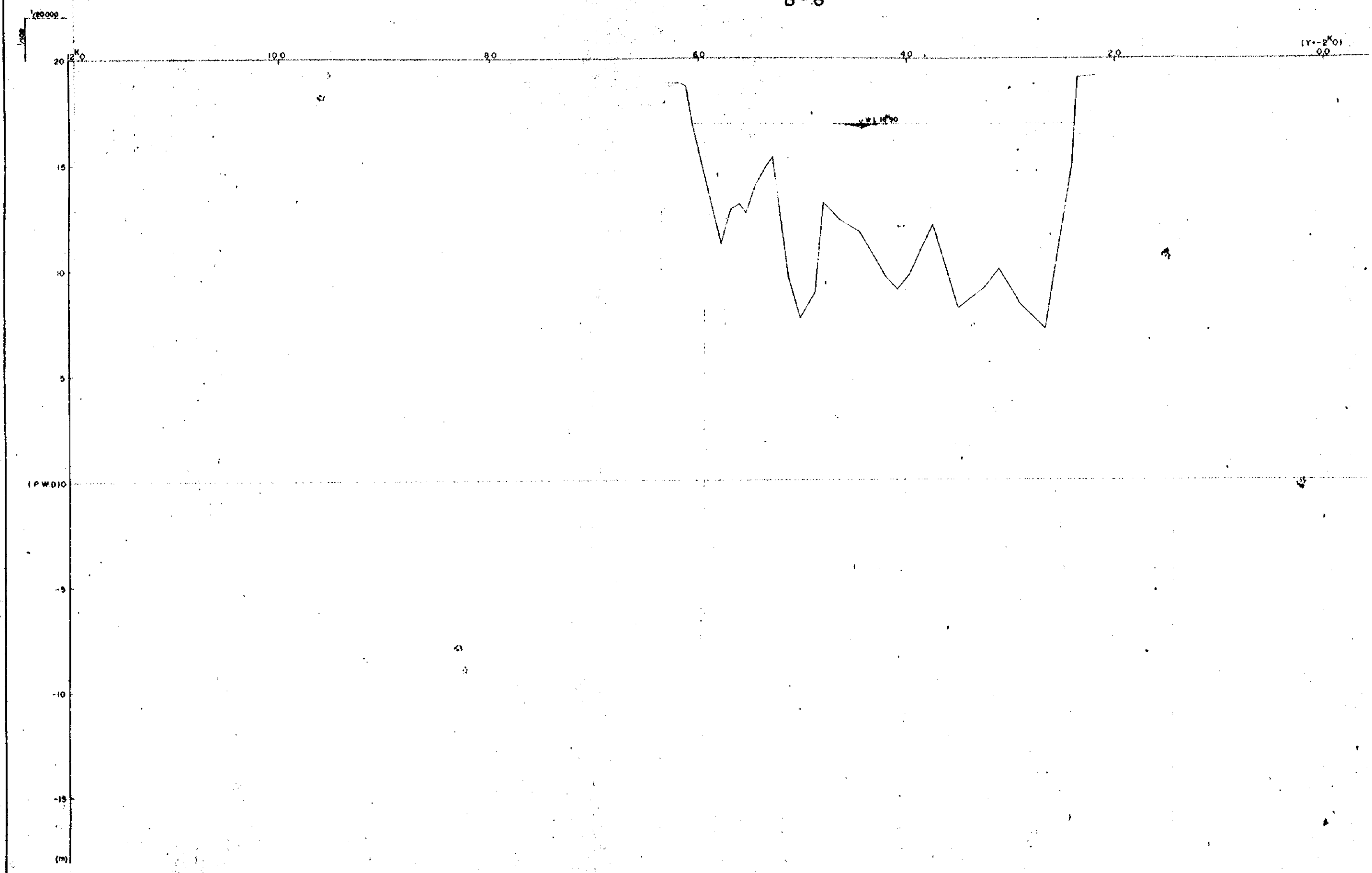


B-7



PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B - 7	CHECKED BY
SURVEYED ON 8-15-OCT-1973	DRAWN BY
OMREBAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-8



B-8

100

80

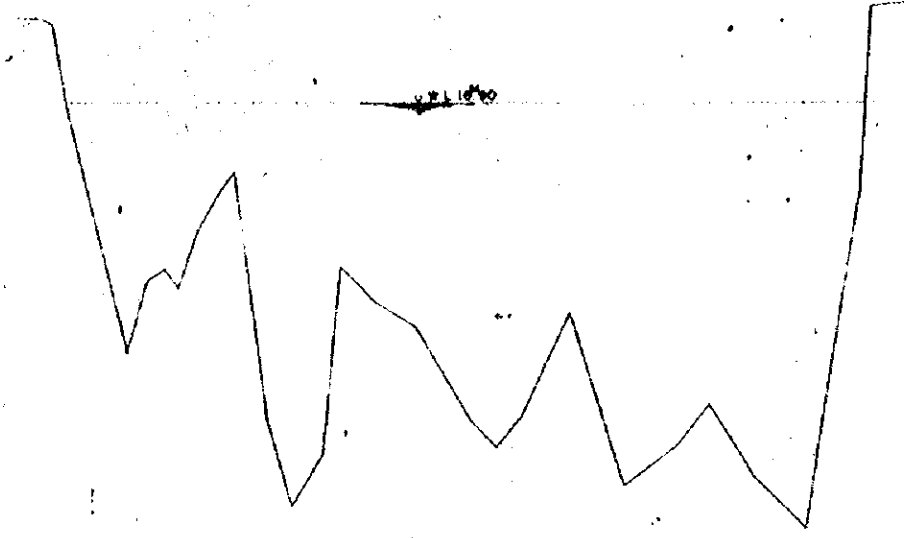
60

40

20

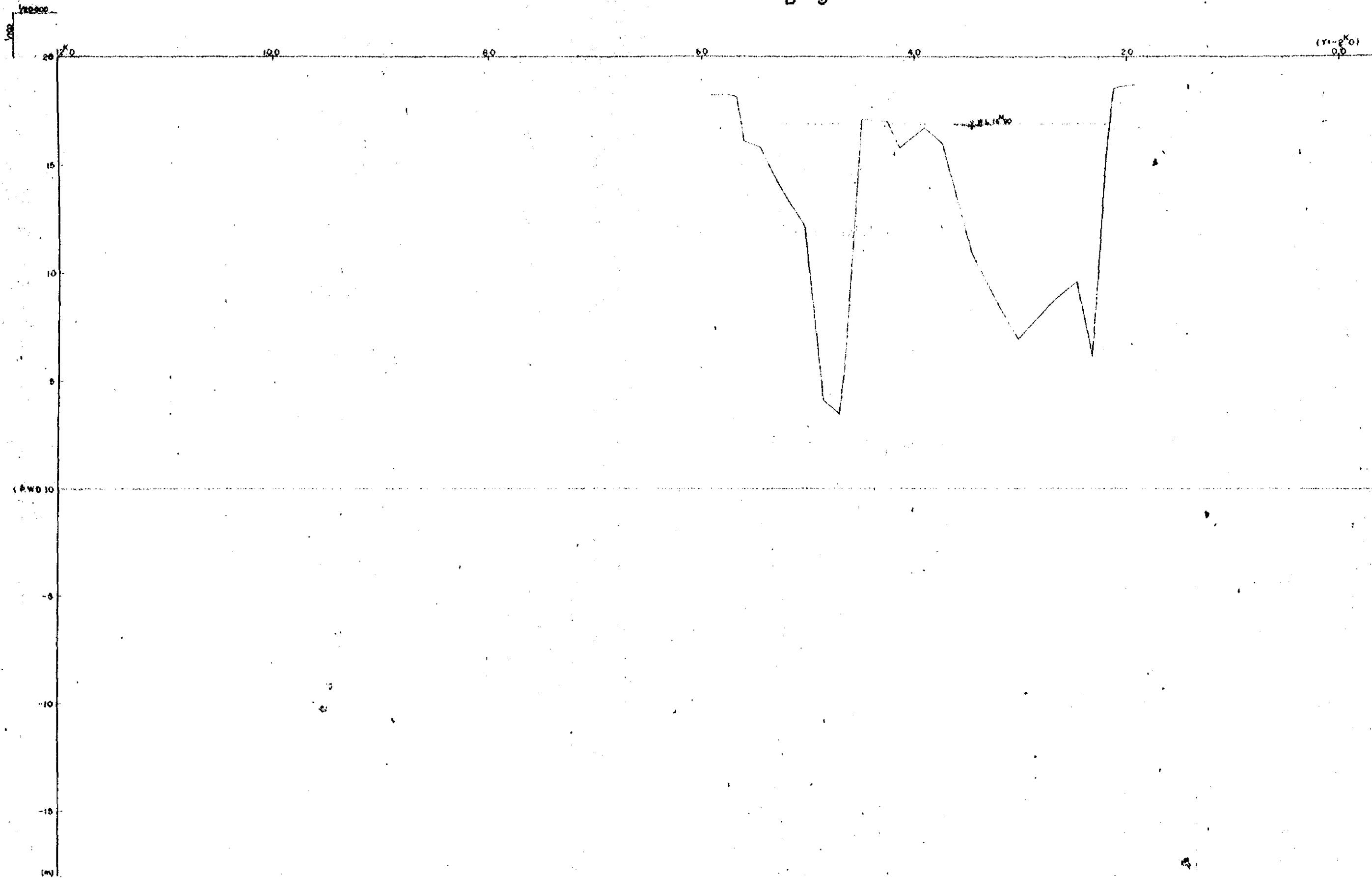
(Y+2'0)

-20

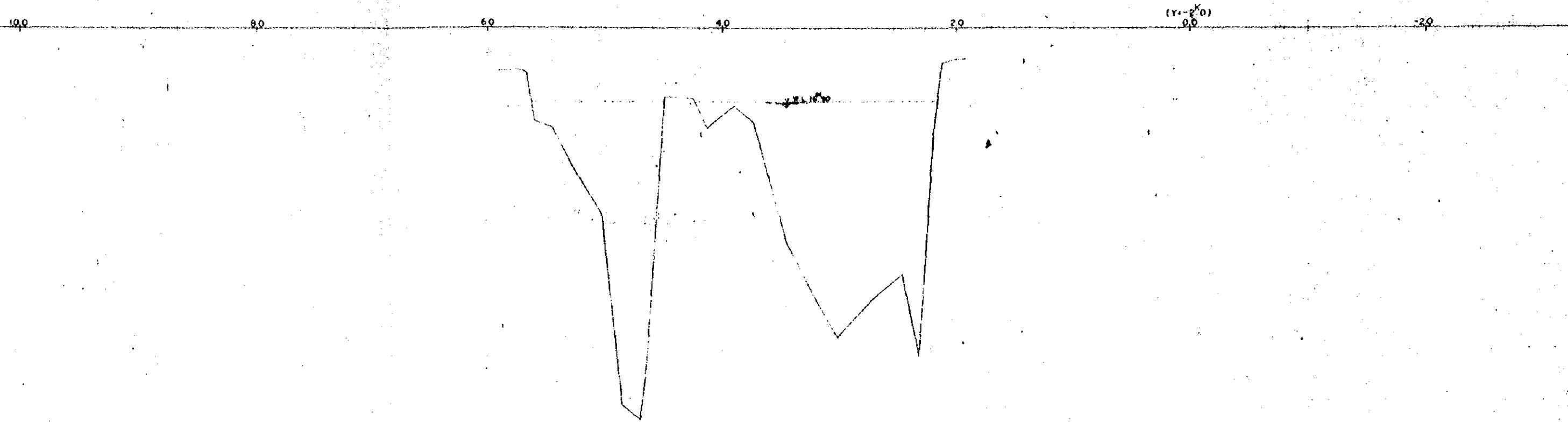


PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H : 1 / 20 000 V : 1 / 100	APPROVED BY
SHEET NO B - 8	CHECKED BY
SURVEYED ON 9 - 15 - OCT - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-9

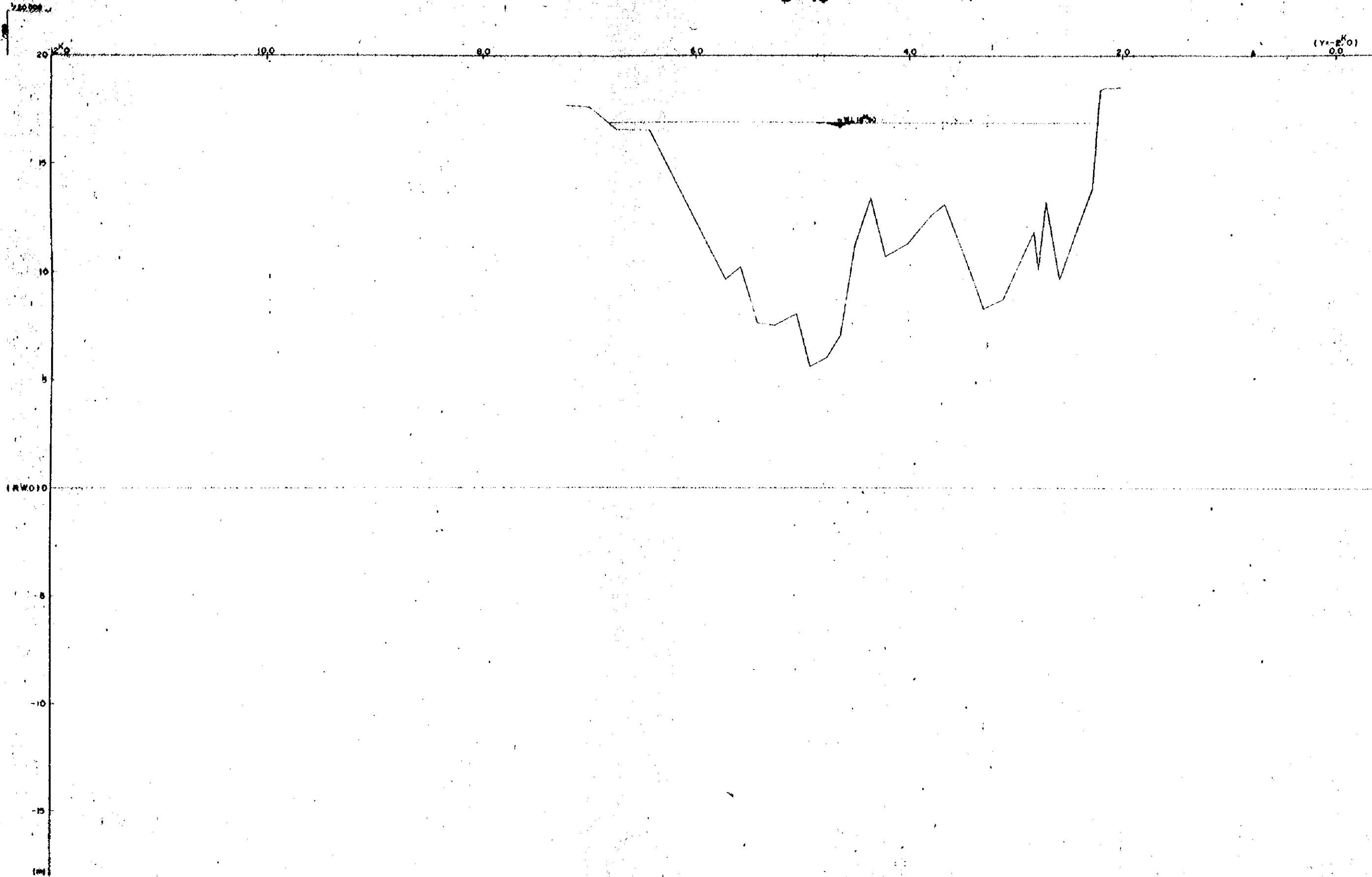


B-9



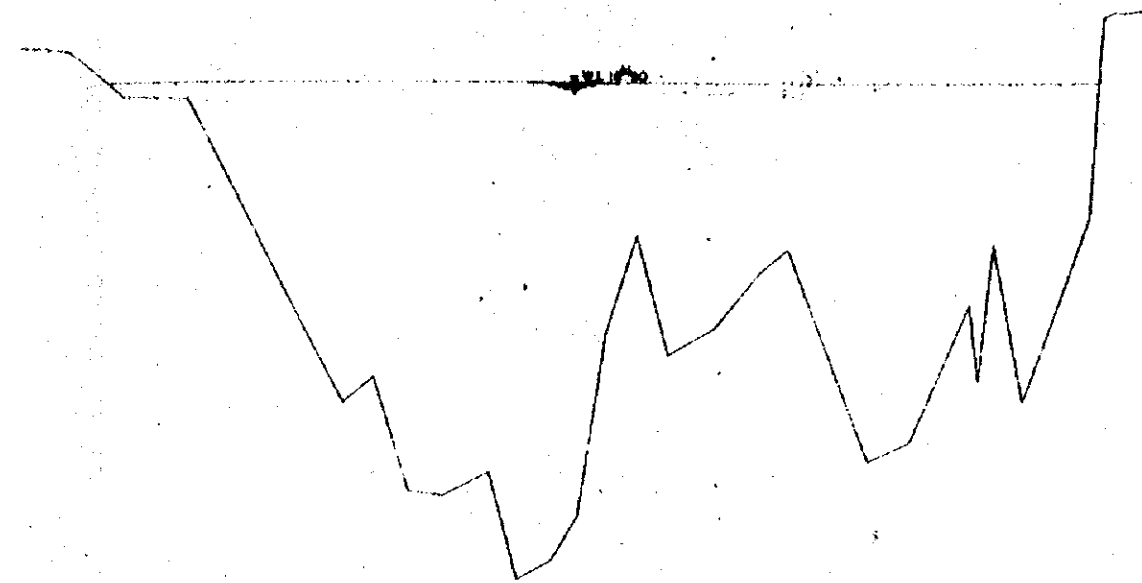
PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B-9	CHECKED BY
SURVEYED ON 9-15-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-10



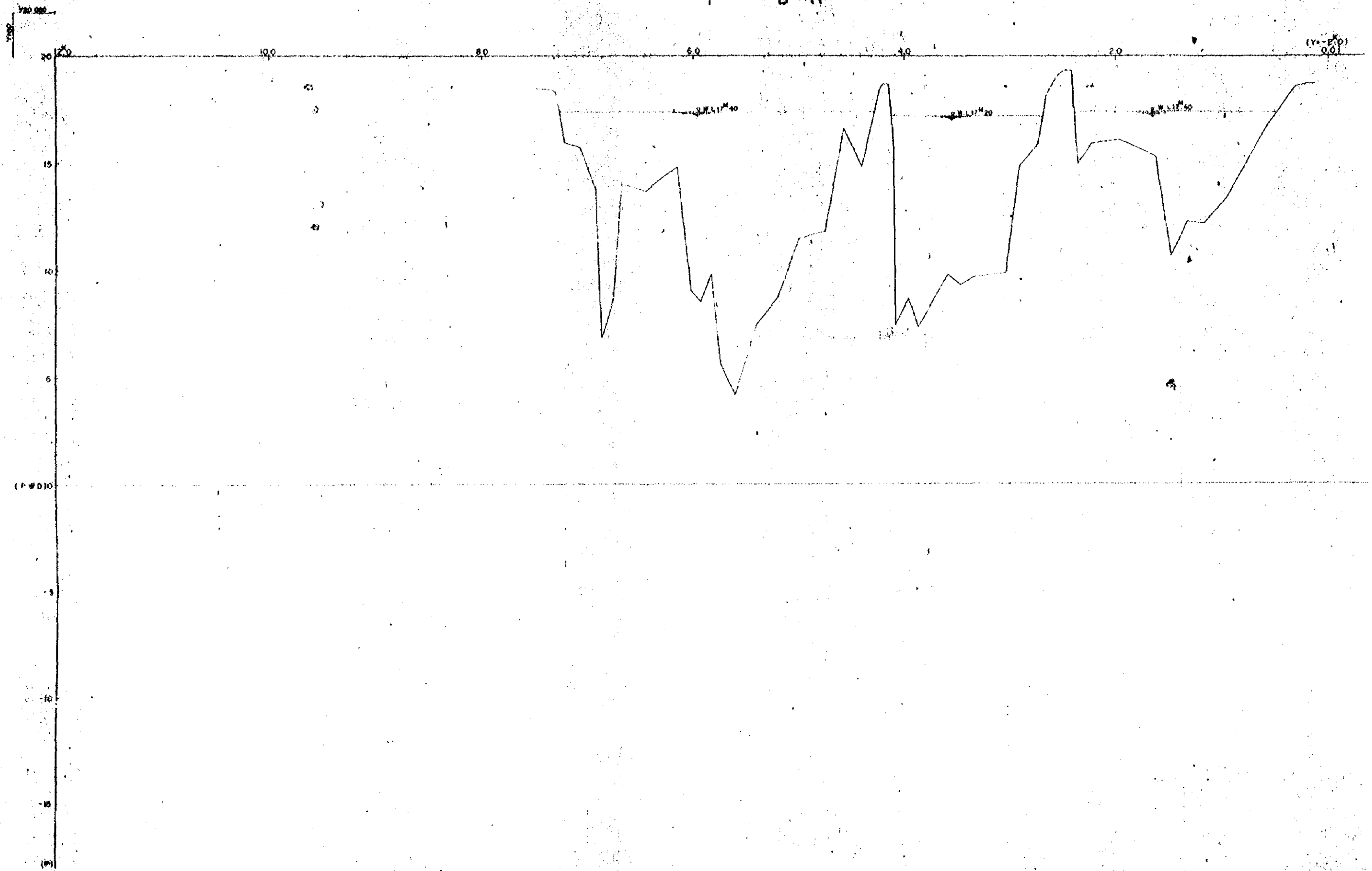
B-10

10.0 20 40 60 80 100 120 140

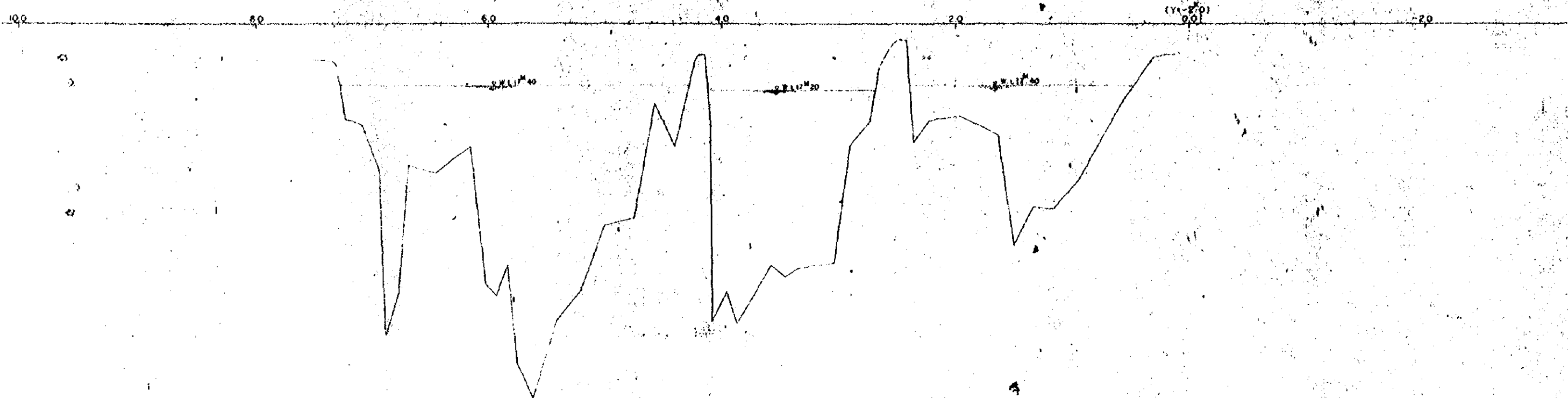


PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B - 10	CHECKED BY
SURVEYED ON 9 - 15 - OCT - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-11

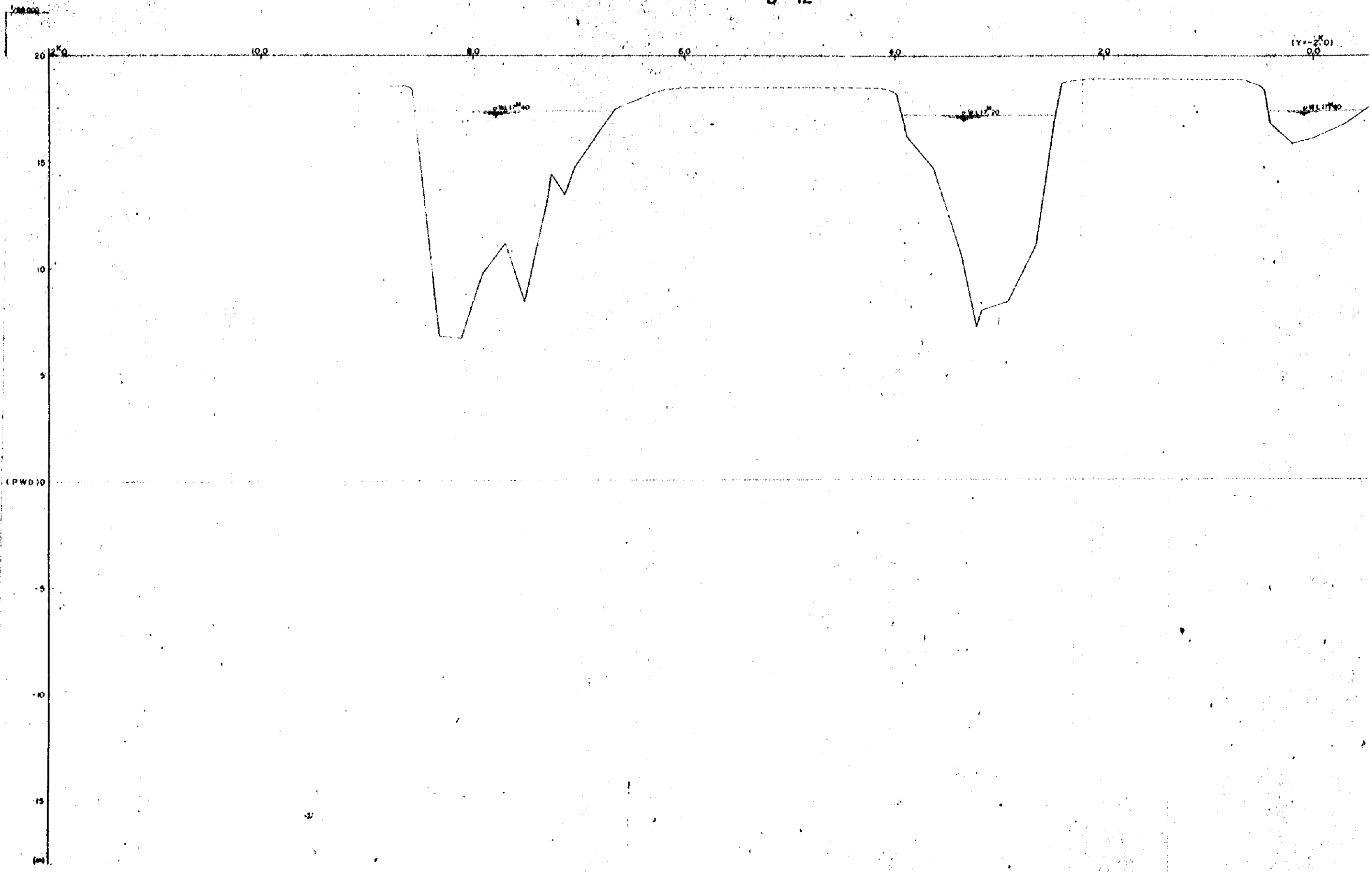


B-11

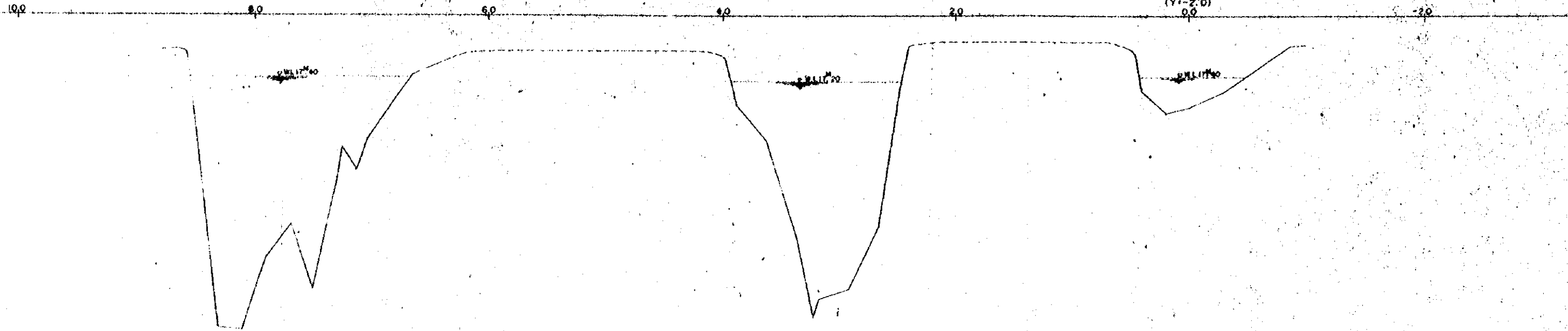


PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO B - 11	CHECKED BY
SURVEYED ON 9 - 12 - OCT - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-12

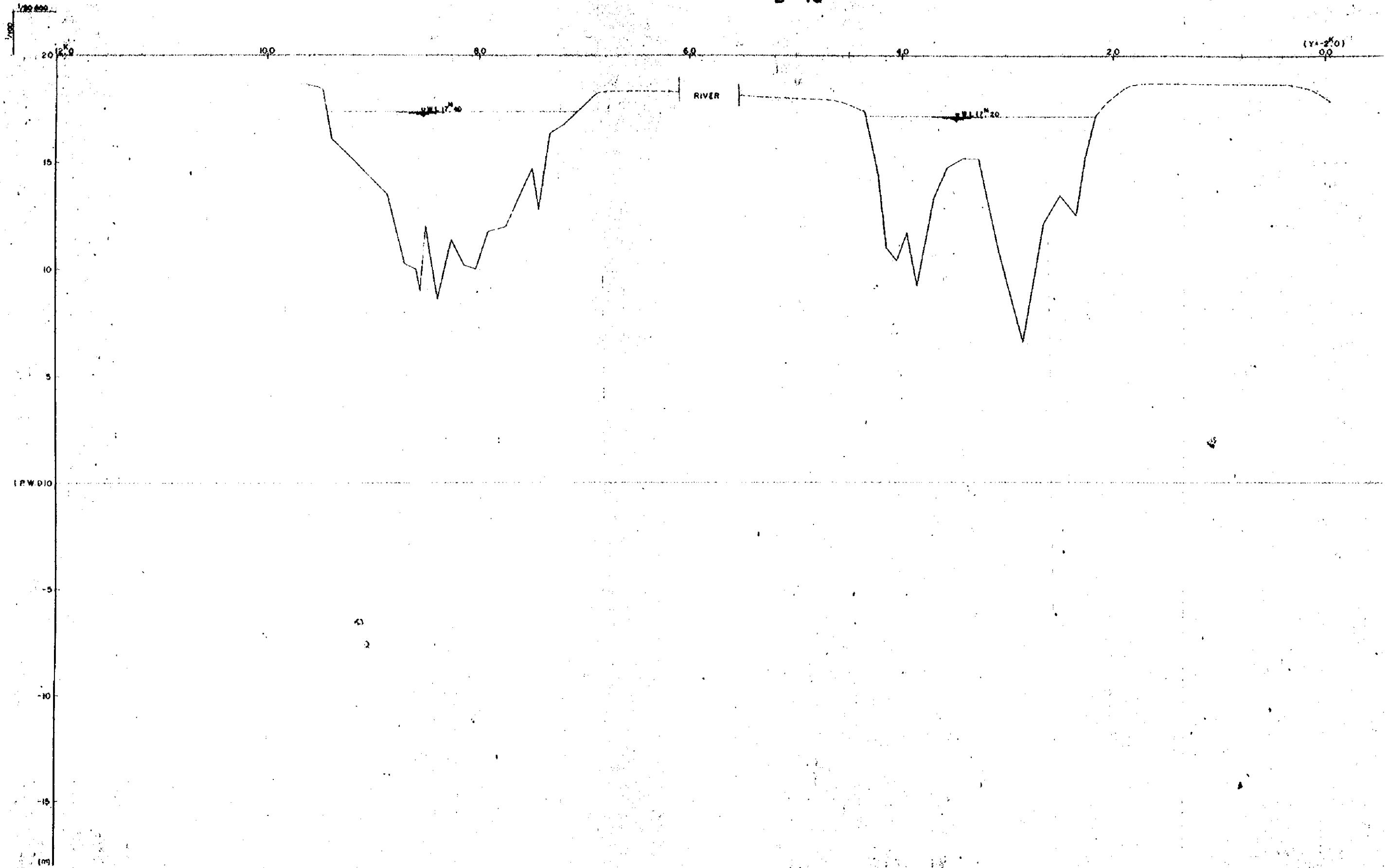


B-12

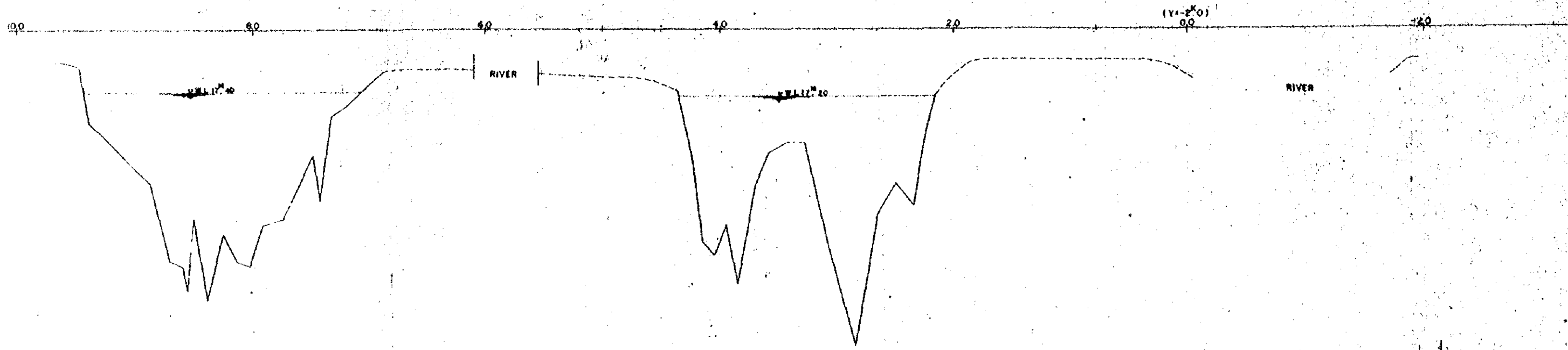


PROJECT		BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT			
SITE		BAHADURABAD	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE	H • 1 / 20 000 V • 1 / 100	APPROVED BY	
SHEET NO	B - 12	CHECKED BY	
SURVEYED ON	9 - 15 - OCT - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

B-13

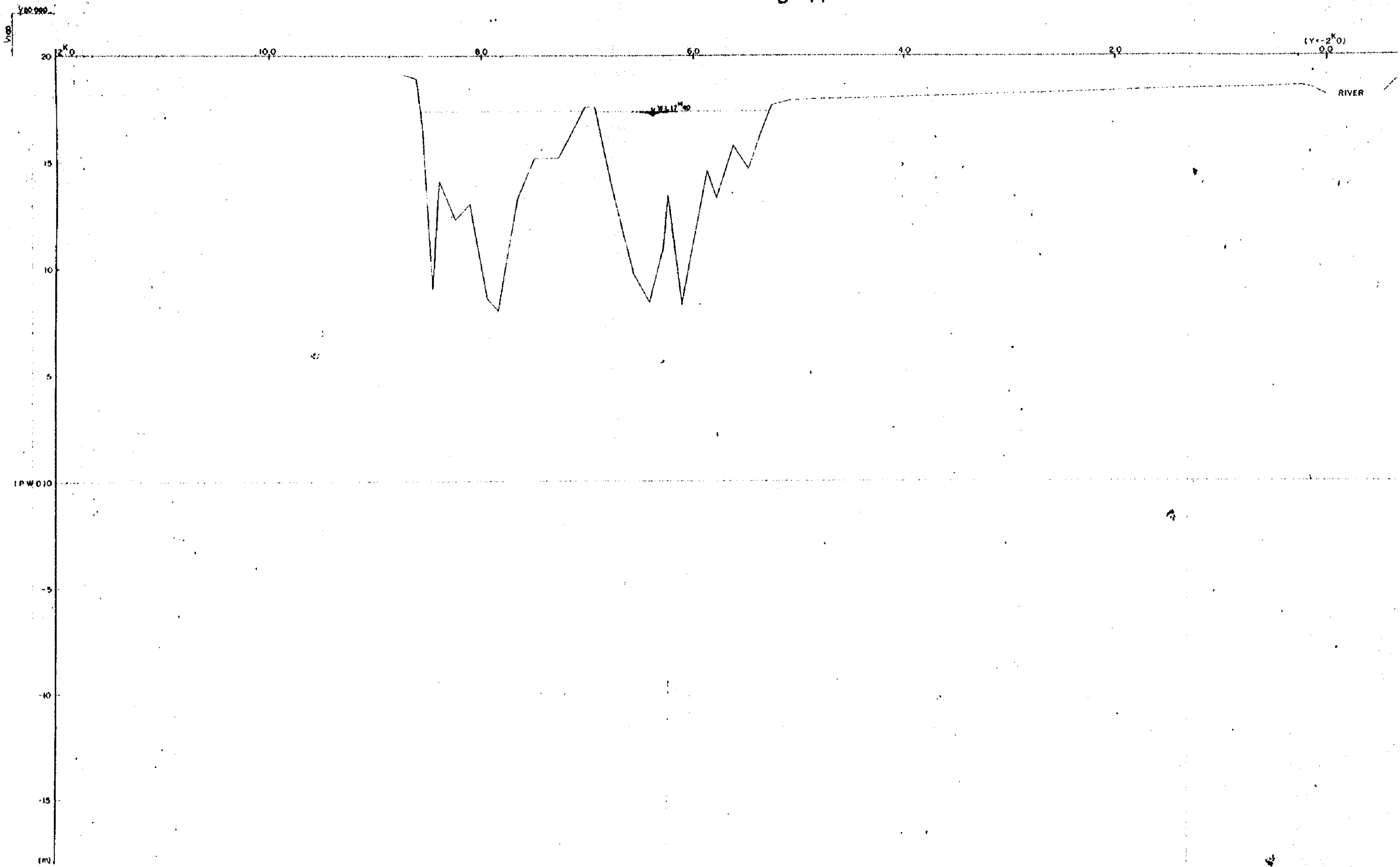


B-13

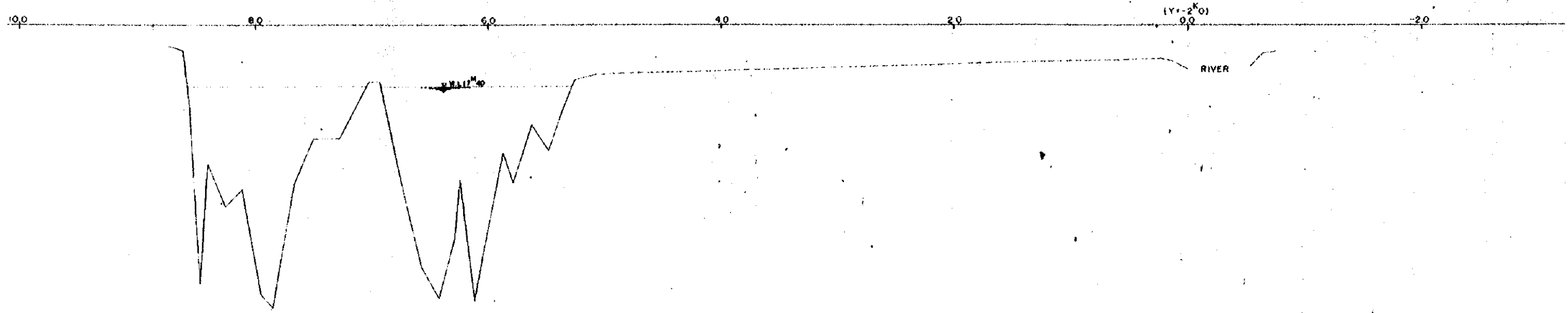


PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE SAHADURABAD	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND SAHADURABAD PROPOSED SITE	
SCALE H = 1 / 20000 V = 1 / 100	APPROVED BY
SHEET NO B-13	CHECKED BY
SURVEYED ON 9-15-68	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

B-14



B-14



PROJECT		BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT			
SITE		BAHADURABAD	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND BAHADURABAD PROPOSED SITE	
SCALE	H • 1 / 20 000 V • 1 / 100	APPROVED BY	
SHEET NO	B - 14	CHECKED BY	
SURVEYED ON	8 - 10 - OCT - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-1

1/20,000

1/100

120

100

80

60

40

20

(1000)

00

16

10

5

(PW10)

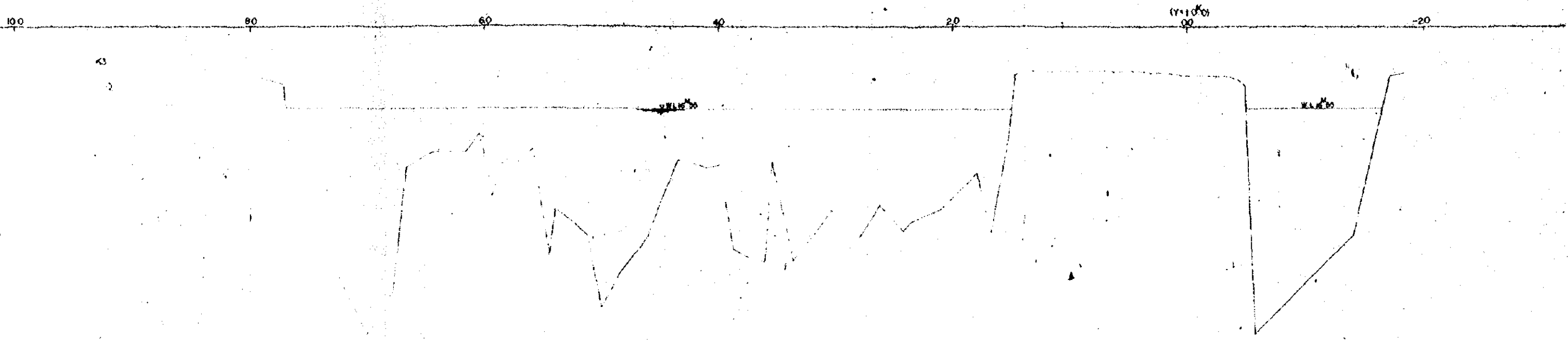
-5

-10

-15

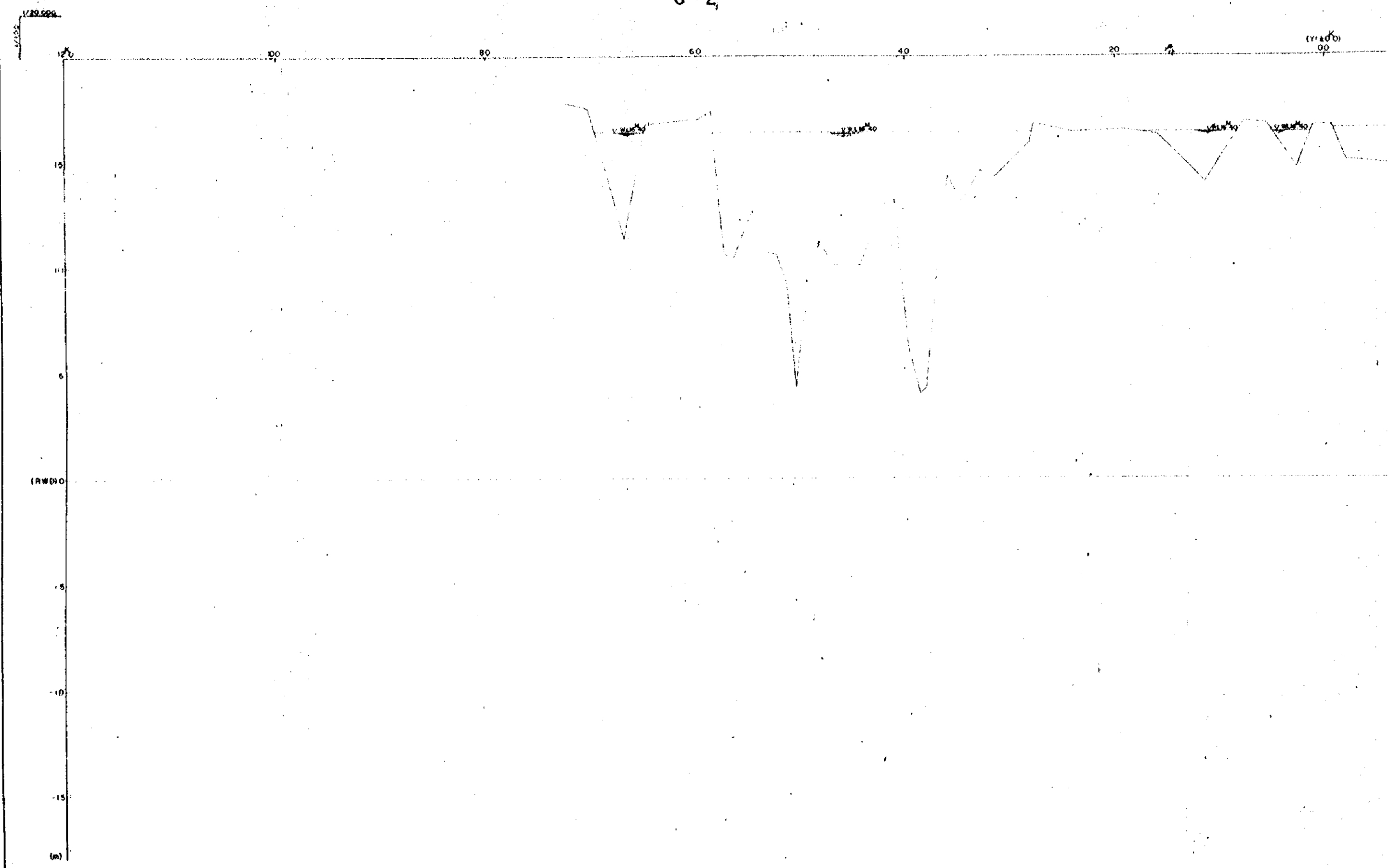
(m)

G-1

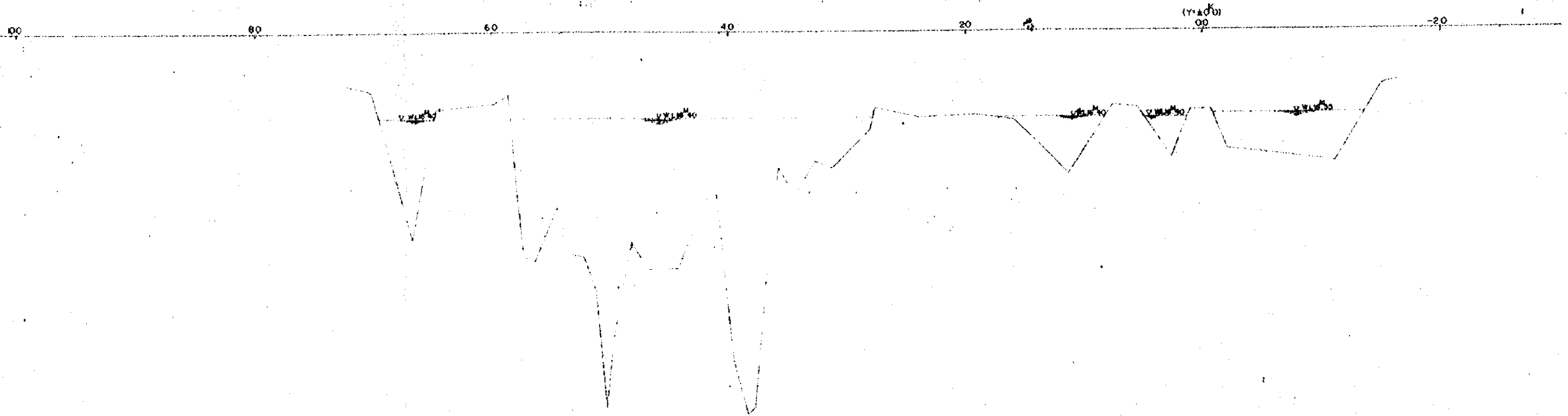


PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H : 1 / 20 000 V : 1 / 100	APPROVED BY	
SHEET NO	G - 1	CHECKED BY	
SURVEYED ON	16-19-OCT-1978	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-2

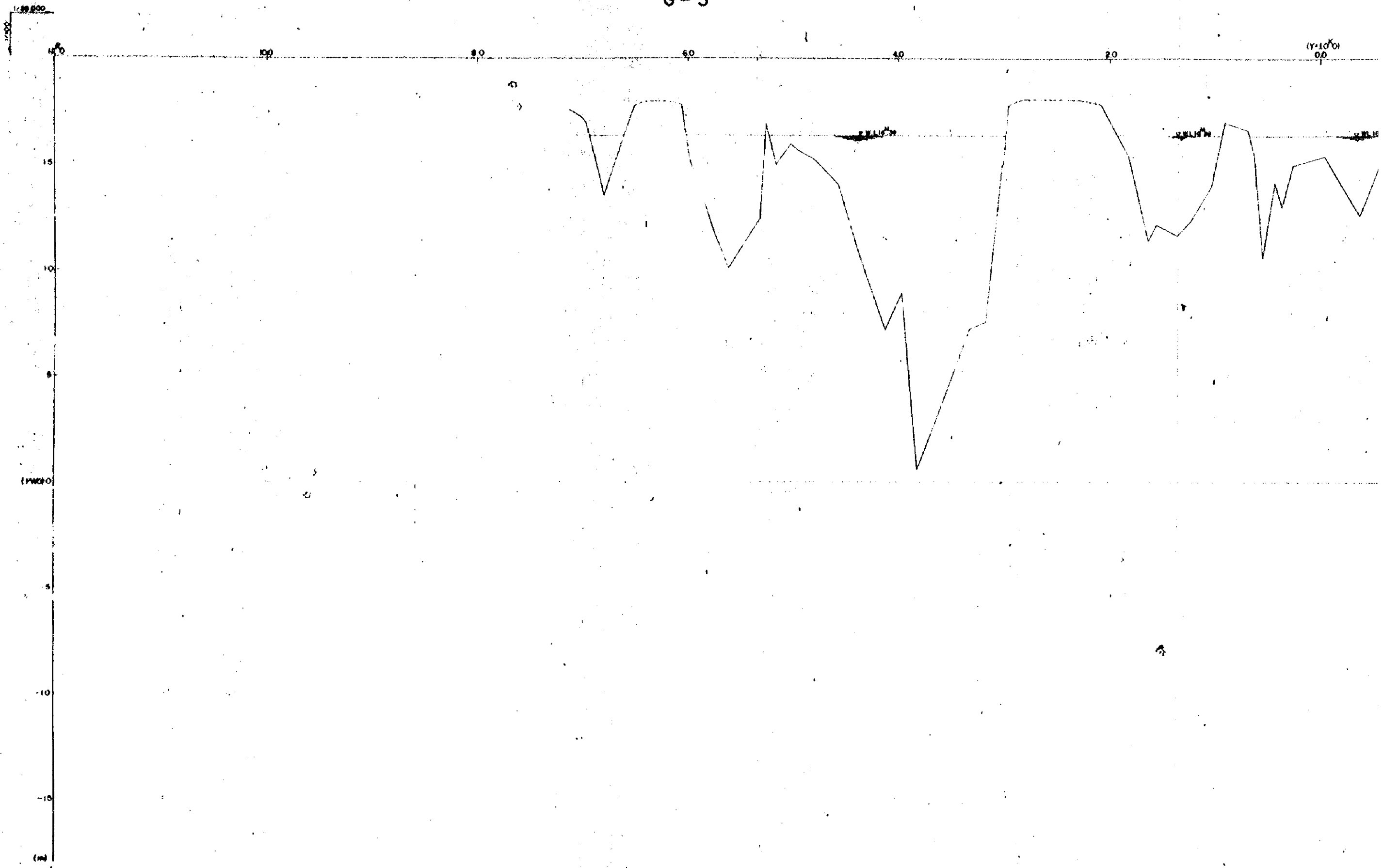


G-2



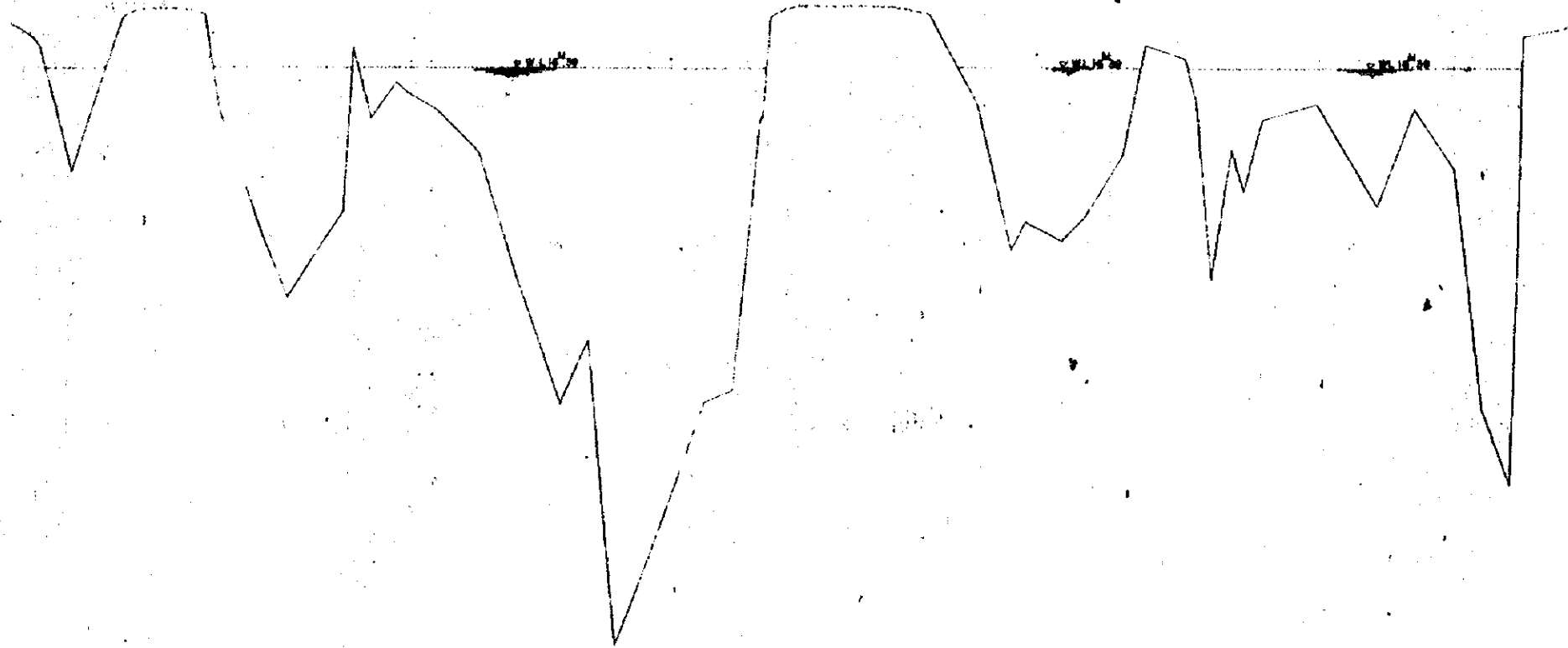
PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	GABARGAON	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY
SHEET NO	G - 2	CHECKED BY
SURVEYED ON	16 - 19 - OCT - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

G-3



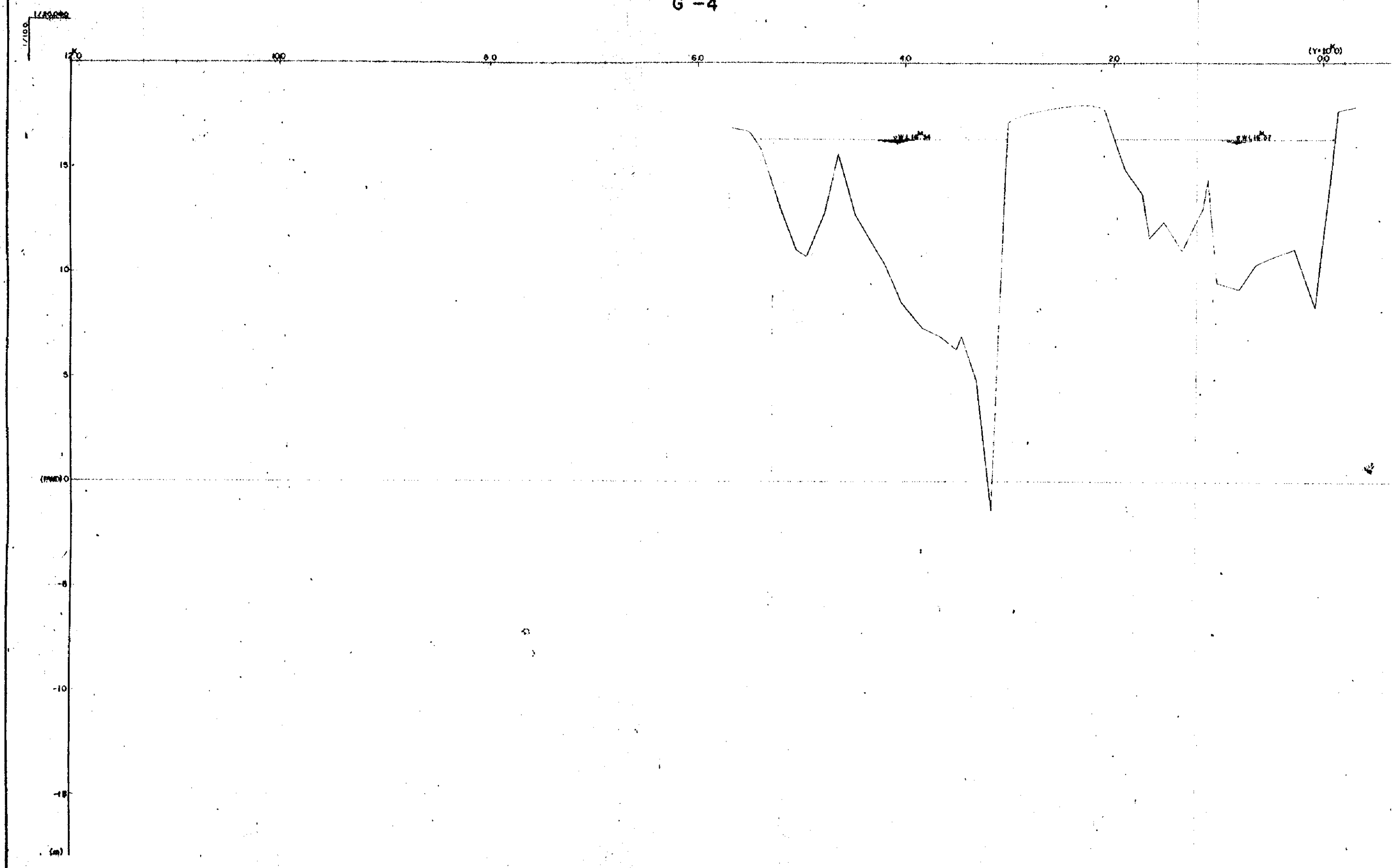
G-3

100 80 60 40 20 (1+10%) 00 -20

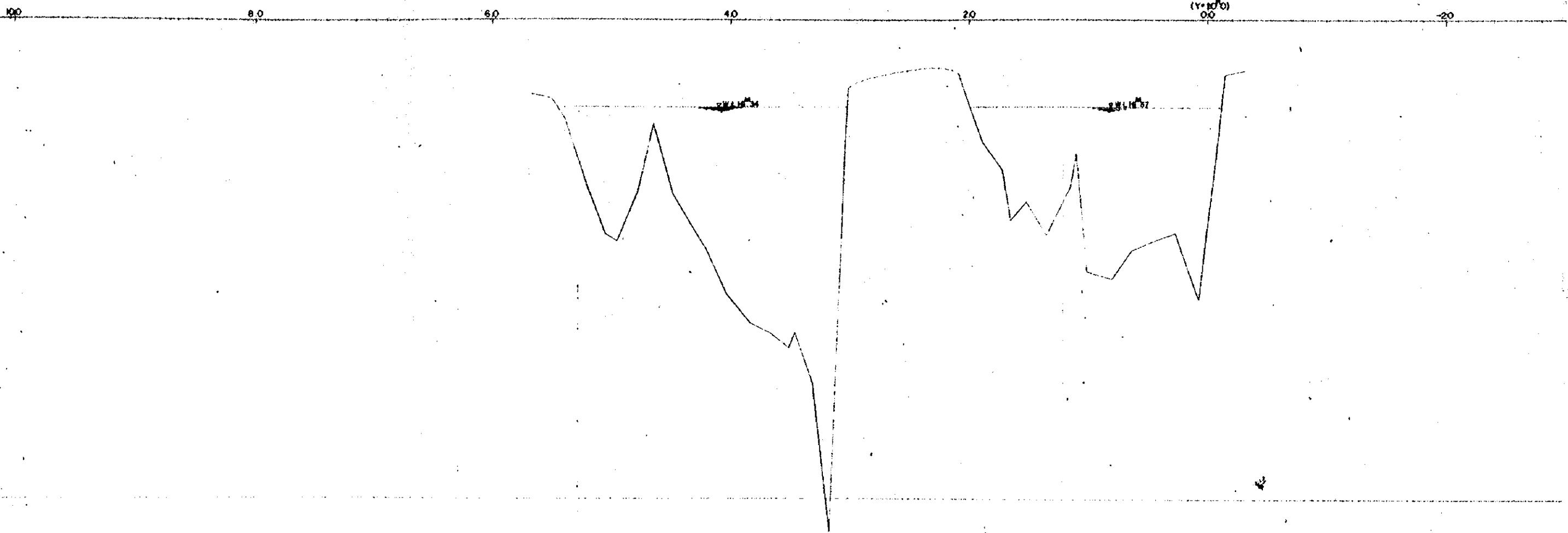


PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	GABARGAON	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H • 1/20,000 V • 1/100	APPROVED BY
SHEET NO	G-3	CHECKED BY
SURVEYED ON	18-19-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

G-4



G - 4



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H • 1 / 20000 V • 1 / 100	APPROVED BY	
SHEET NO	G - 4	CHECKED BY	
SURVEYED ON	18 - 19 - OCT - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-5

171000g

(Y:100)
00

120

100

80

60

40

20

15

-10

5

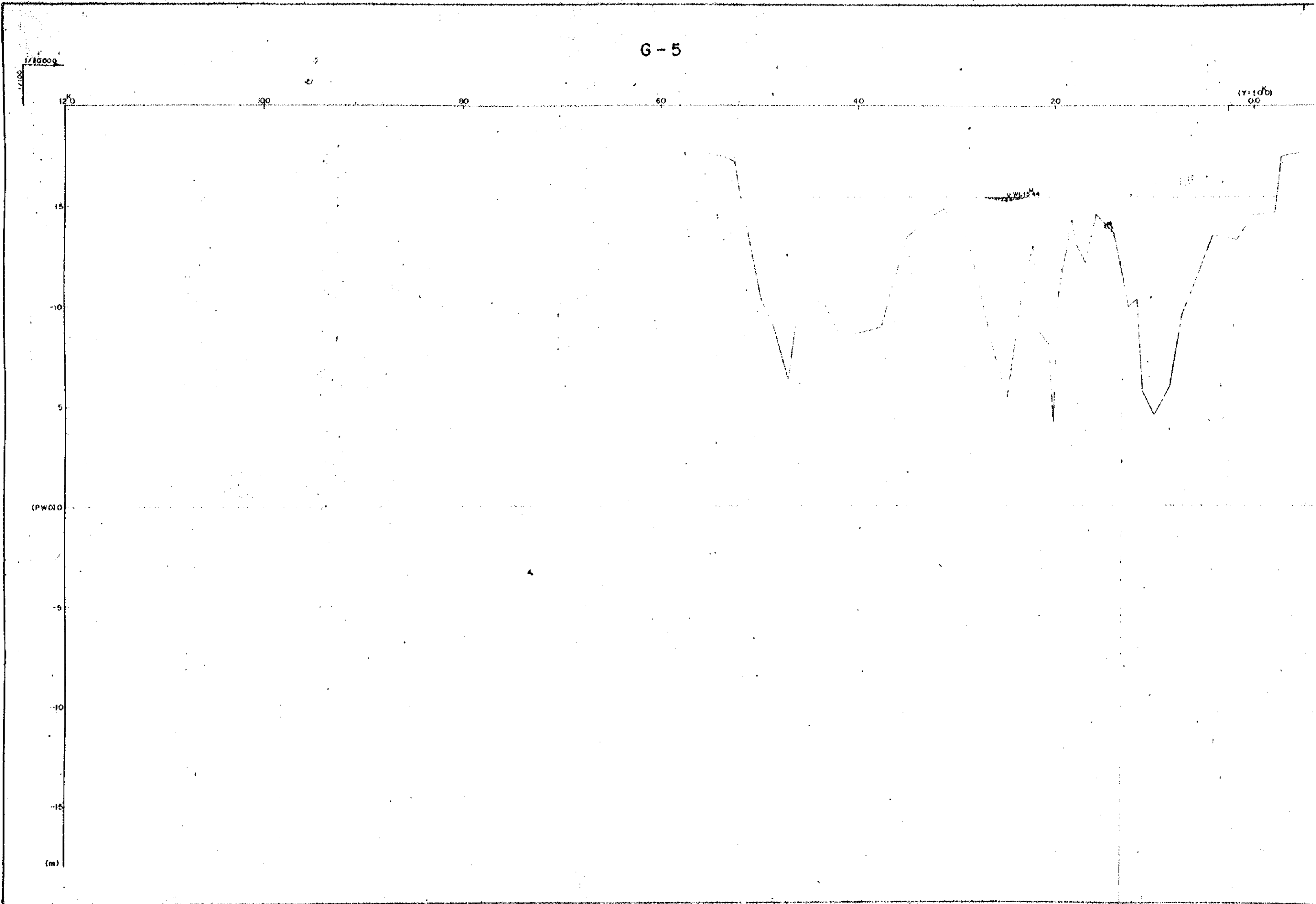
(PW010)

-5

-10

-15

(m)



G-5

100

80

60

40

20

(Y+D)
00

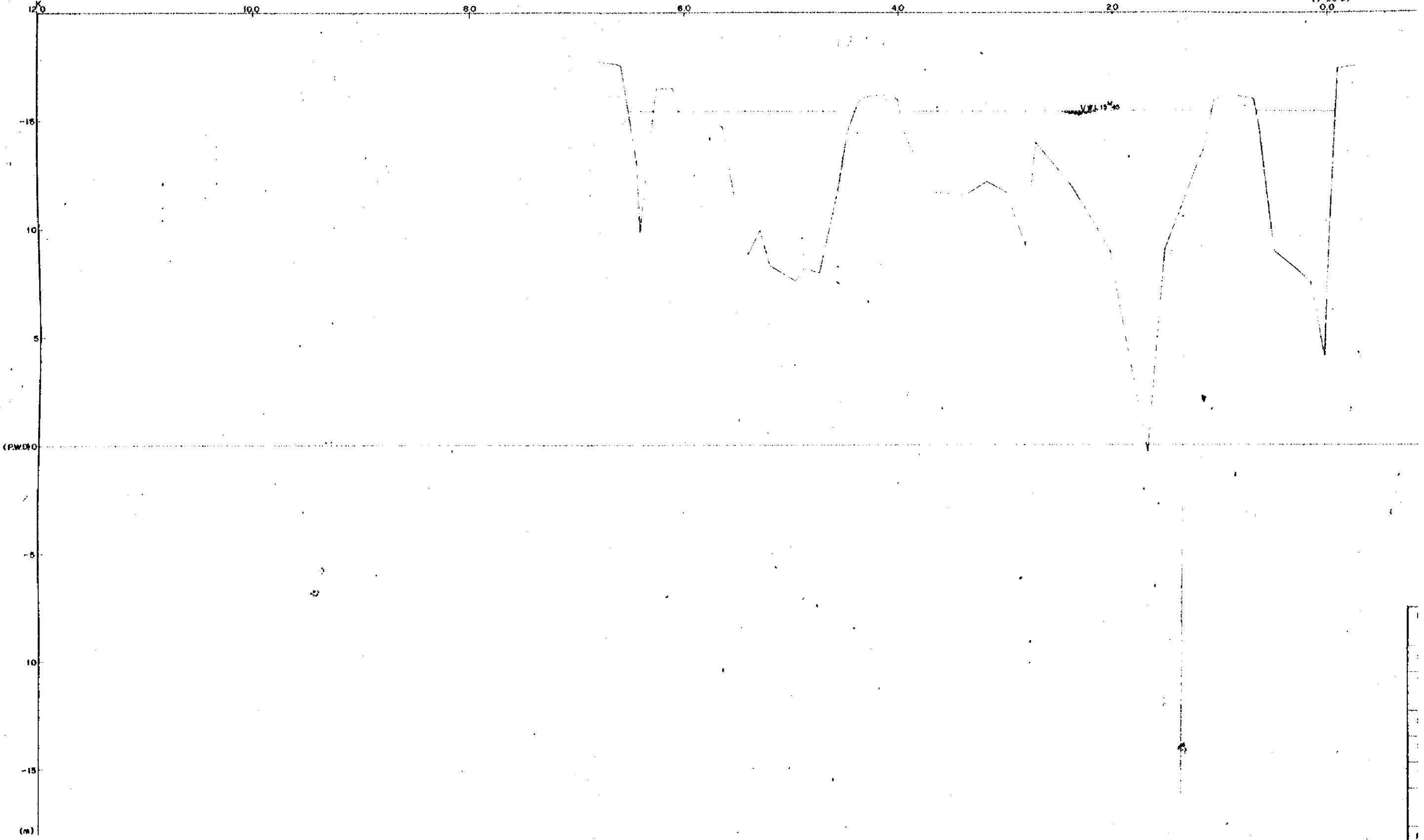
-20



PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	GABARGAON	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H * 1 / 20 000 V * 1 / 100	APPROVED BY
SHEET NO	G - 5	CHECKED BY
SURVEYED ON	16 - 19 - OCT - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY J A P A N		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION J A P A N		

G-6

1/20,000
120 100 80 60 40 20 (Y-100) 0.0



G-6

100

80

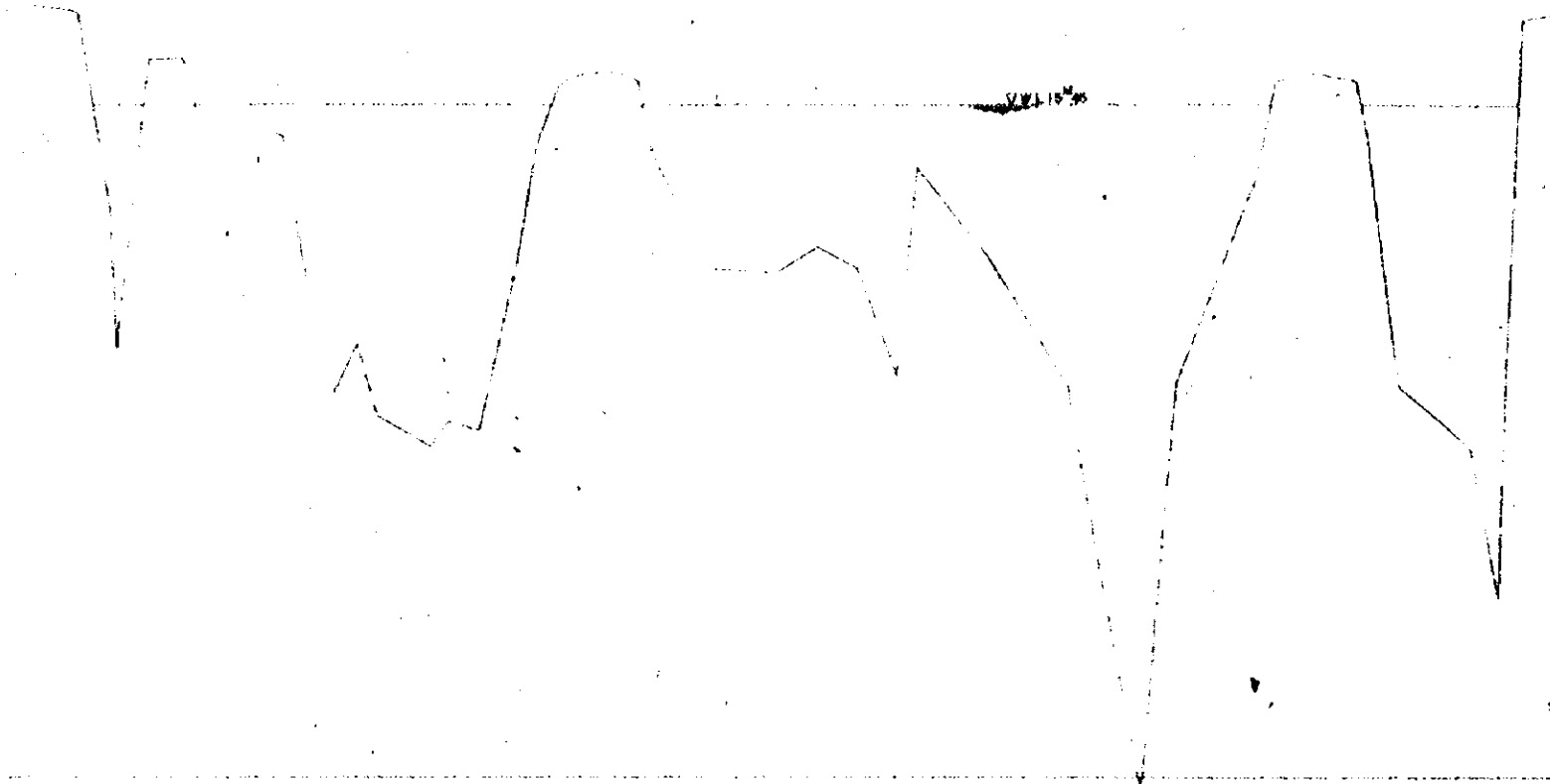
60

40

20

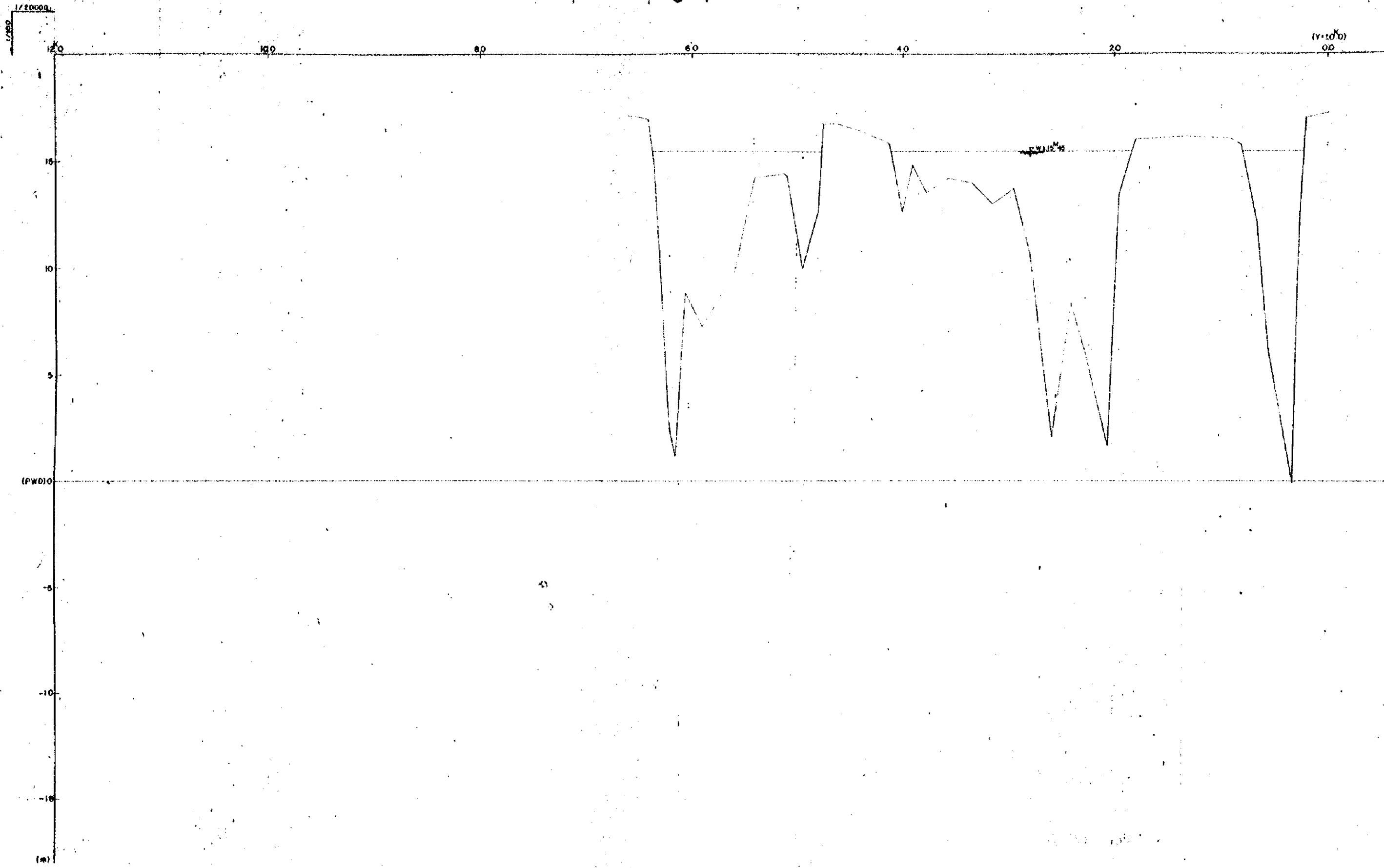
(Y+100)
0.0

-20



PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO	G - 6	CHECKED BY	
SURVEYED ON	16 - 19 - OCT - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-7



G-7

100

80

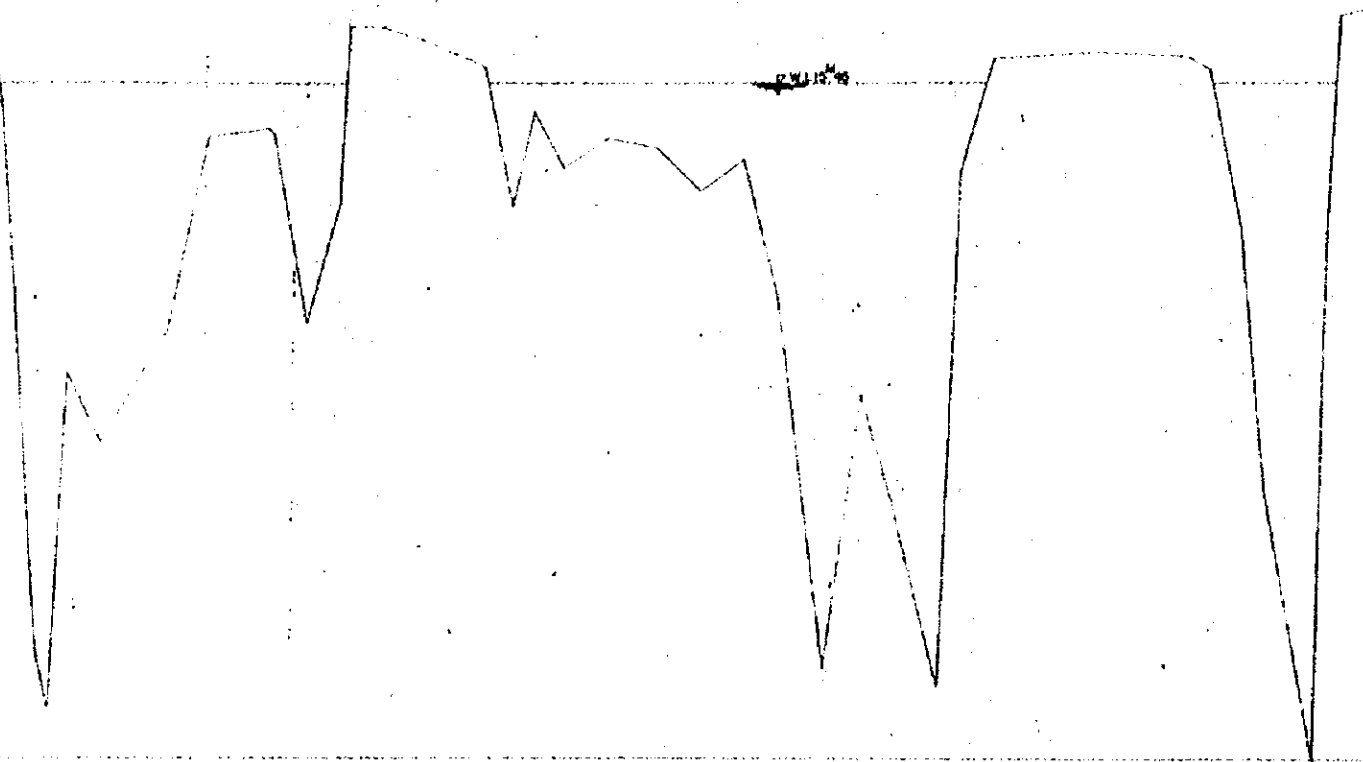
60

40

20

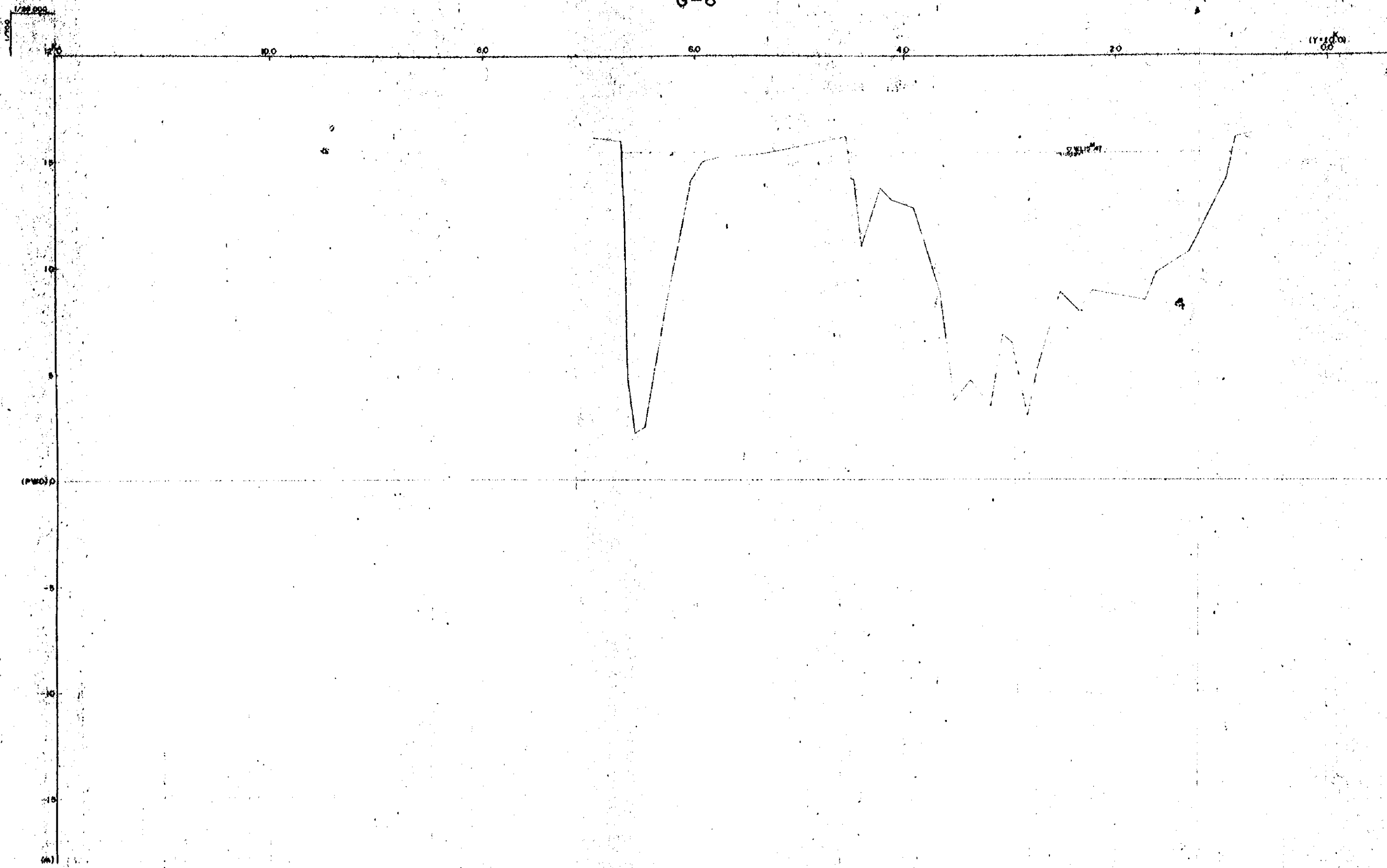
(V:200)
00

+20



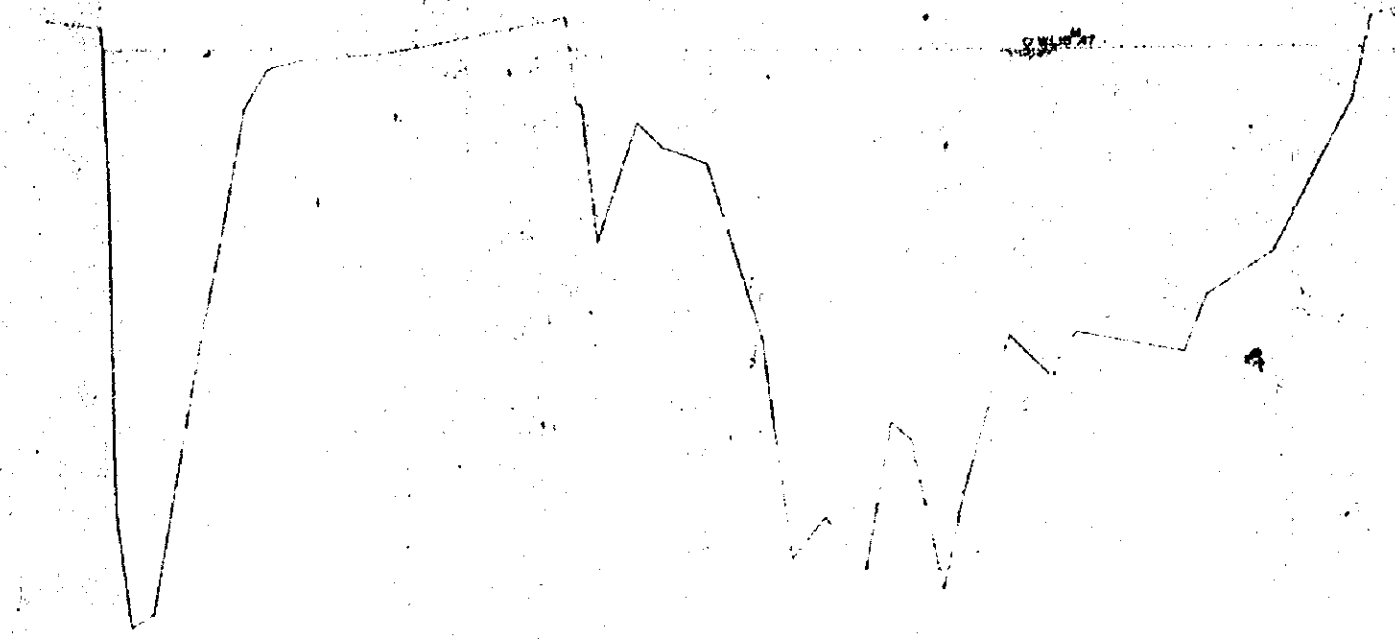
PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H • 1 / 20,000 V • 1 / 100	APPROVED BY	
SHEET NO	G - 7	CHECKED BY	
SURVEYED ON	18 - 19 - OCT. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-8



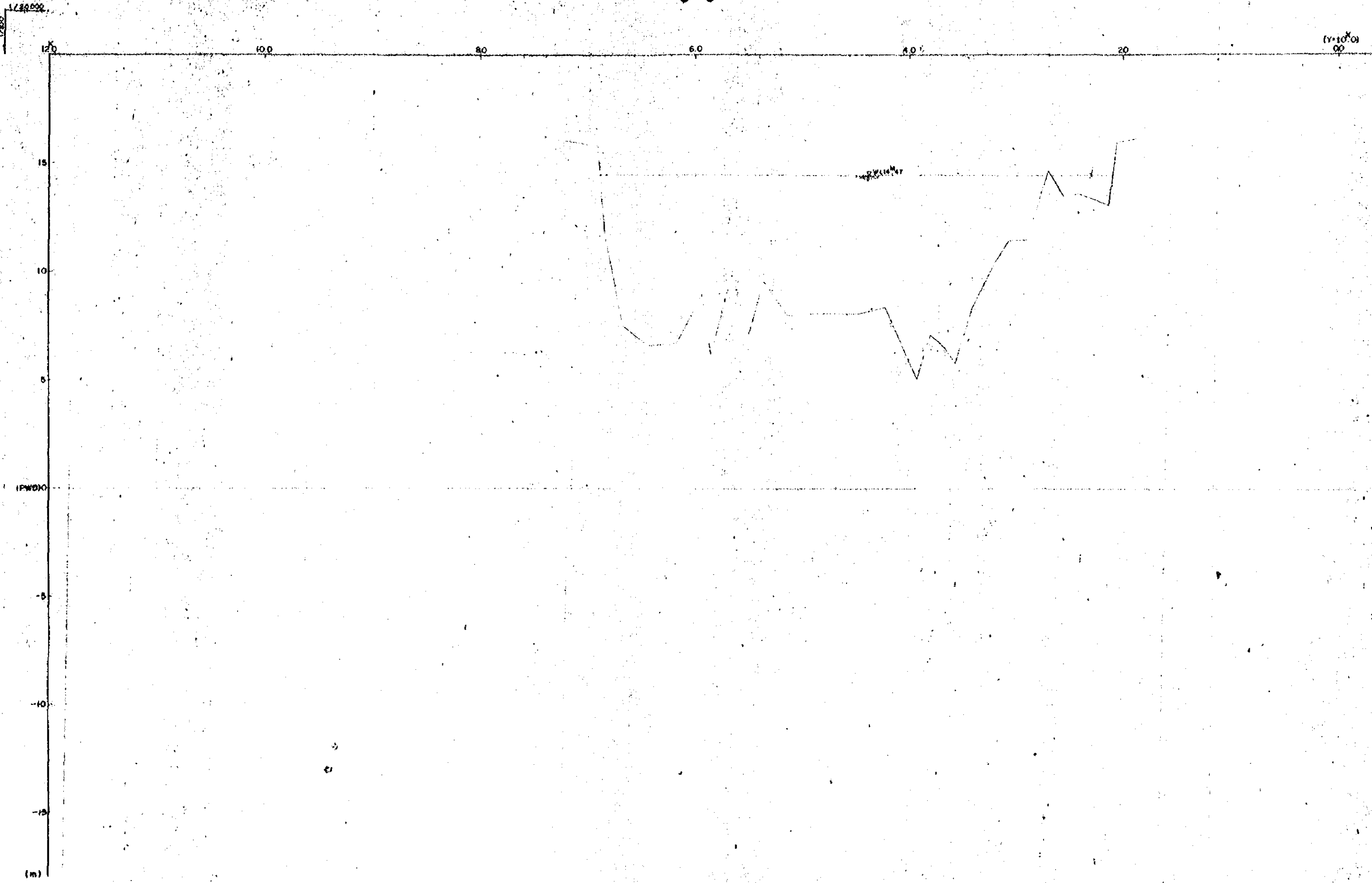
G-8

100 80 60 40 20 00 -20



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO	G - 8	CHECKED BY	
SURVEYED ON	18-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-9



G-9

10.0

8.0

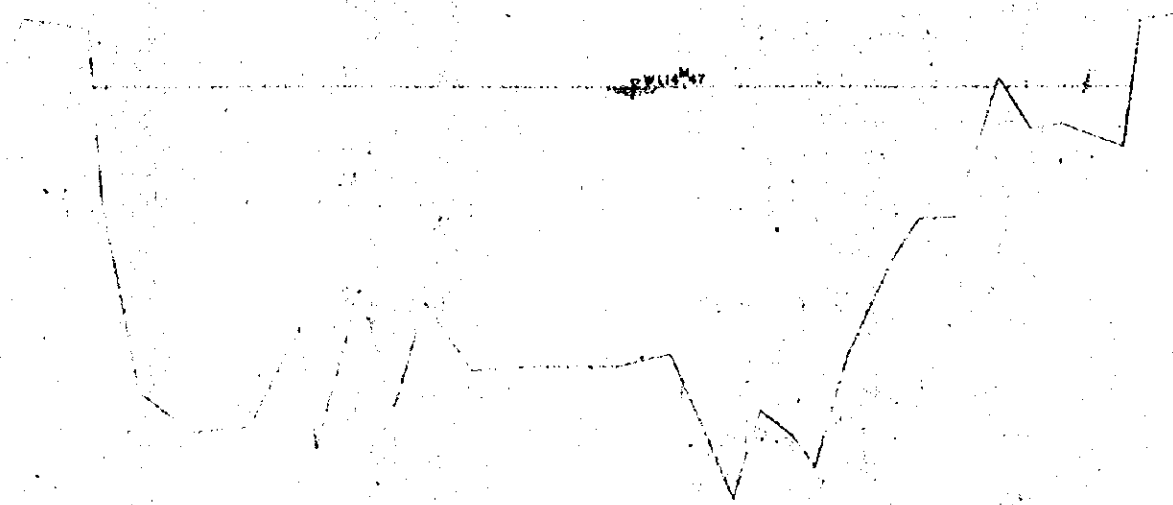
6.0

4.0

2.0

(1:10,000)
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-2.0

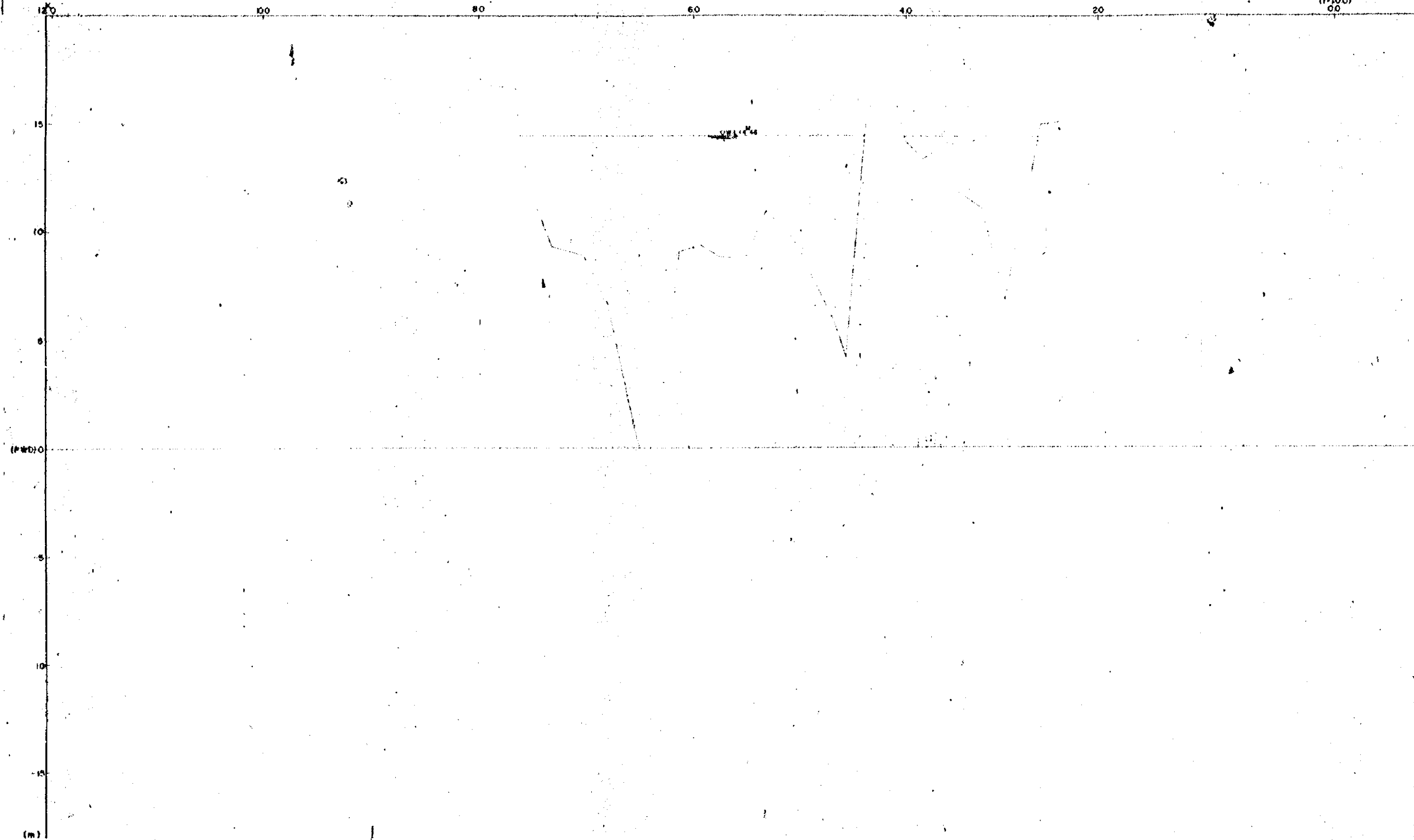


PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	GABARGAON	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H = 1/20000 V = 1/100	APPROVED BY
SHEET NO	G - 9	CHECKED BY
SURVEYED ON	16-19-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

G-10

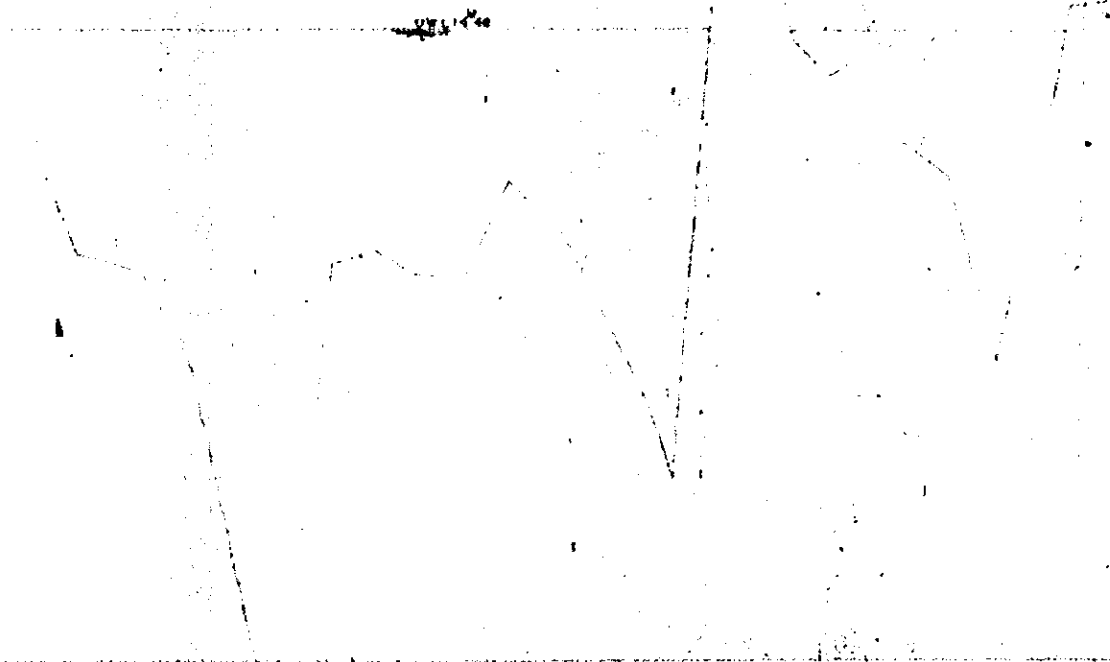
1/20000

(m)



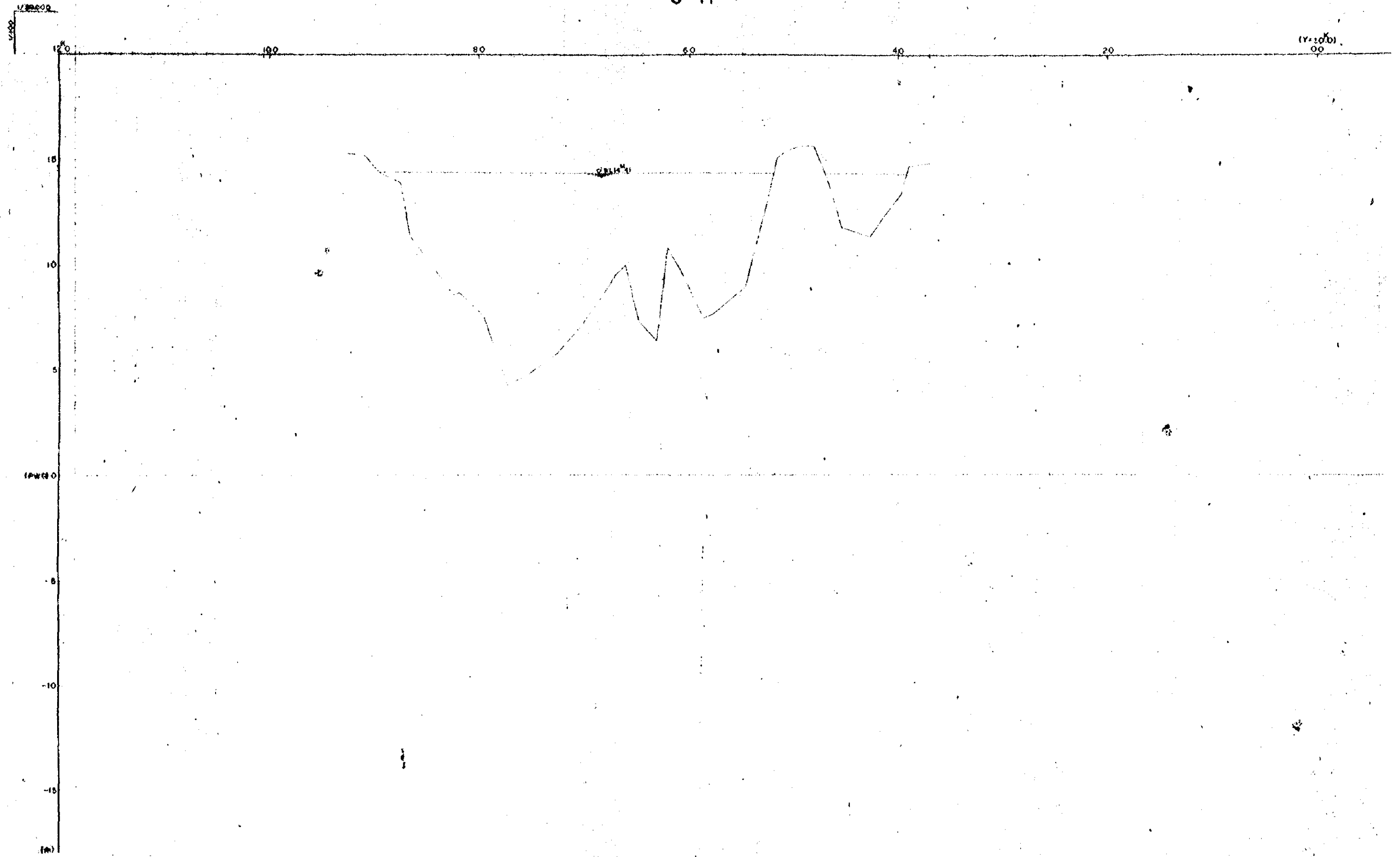
G-10

00 20 40 60 80 100 120



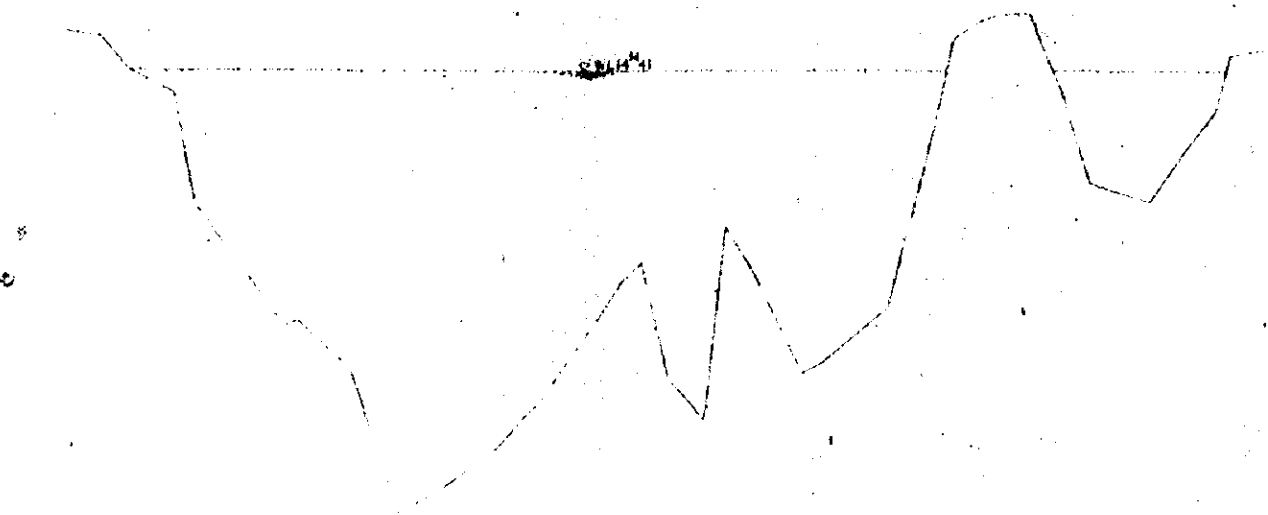
PROJECT, BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE GABARGAON	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE H : 1 / 20,000 V : 1 / 100	APPROVED BY
SHEET NO G-10	CHECKED BY
SURVEYED ON 18-19-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

G-11



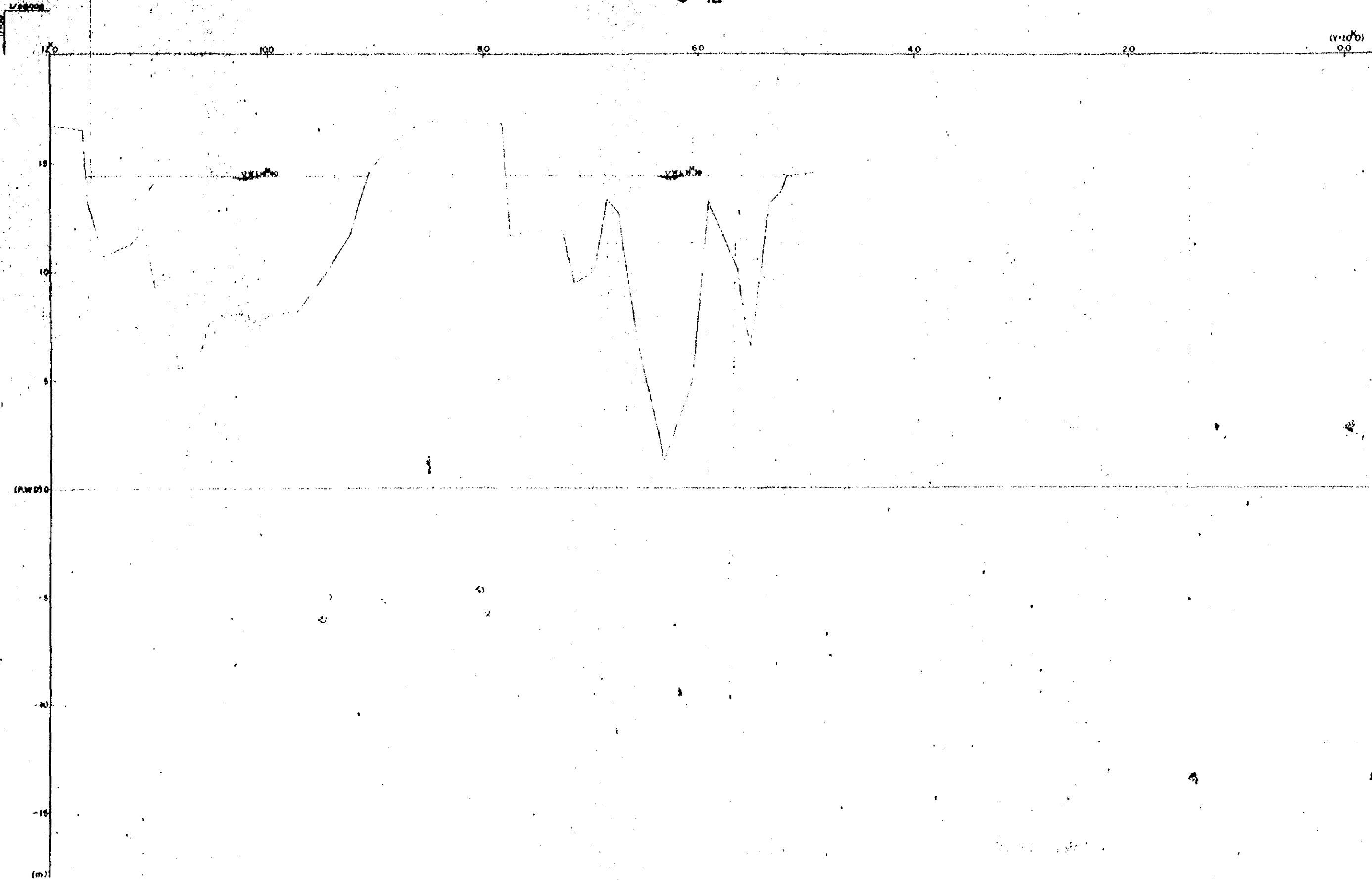
G-11

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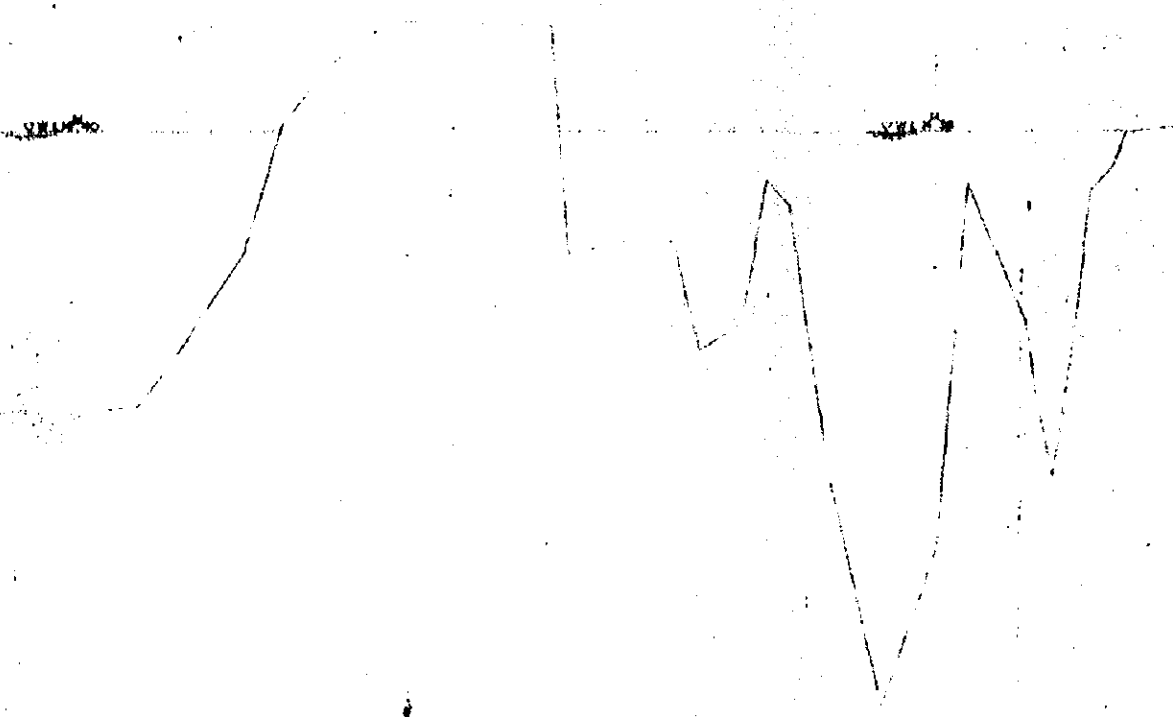
PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H = 1/20000 V = 1/100	APPROVED BY	
SHEET NO	G-11	CHECKED BY	
SURVEYED ON	16-19-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-12



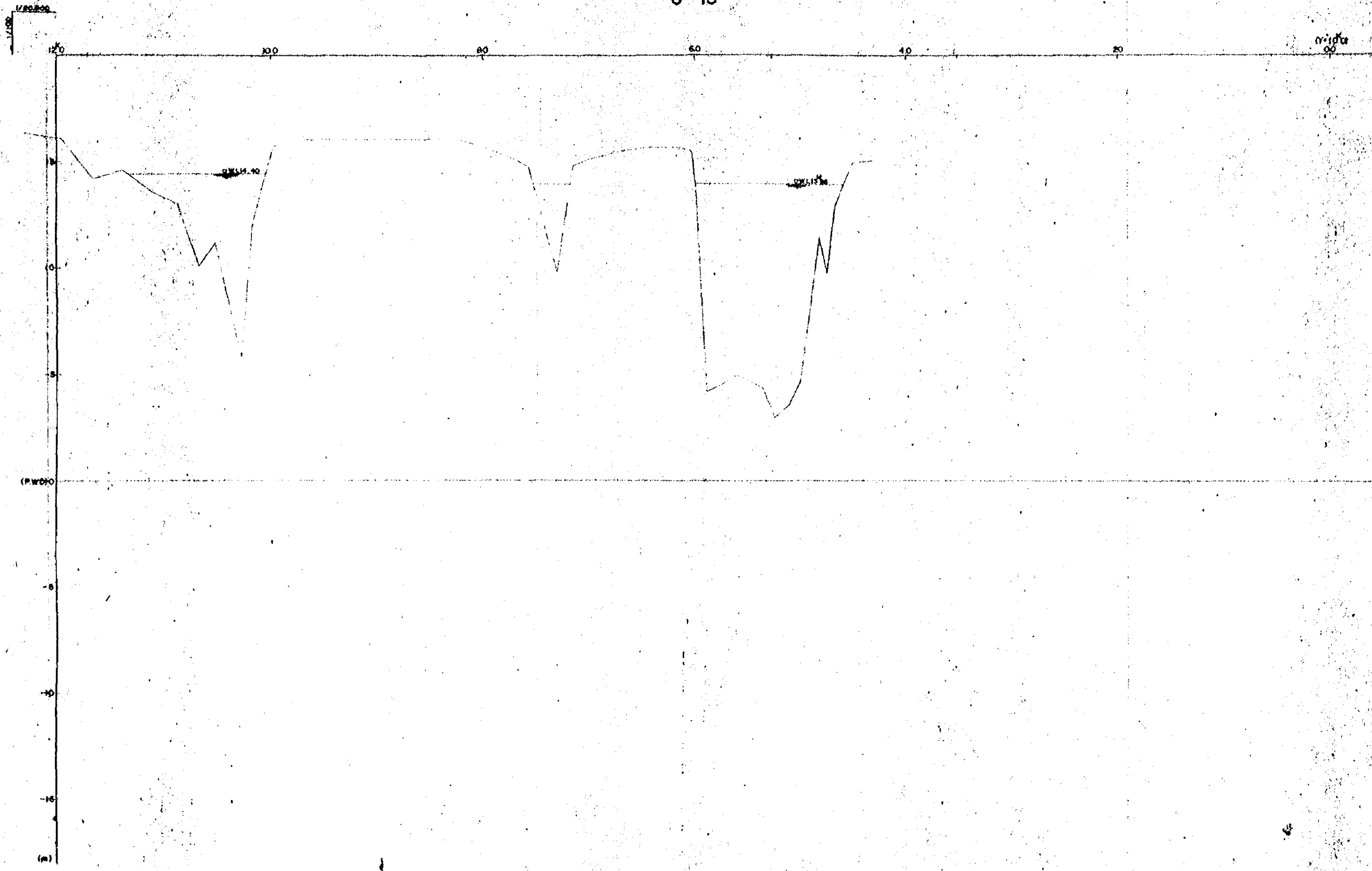
G-12

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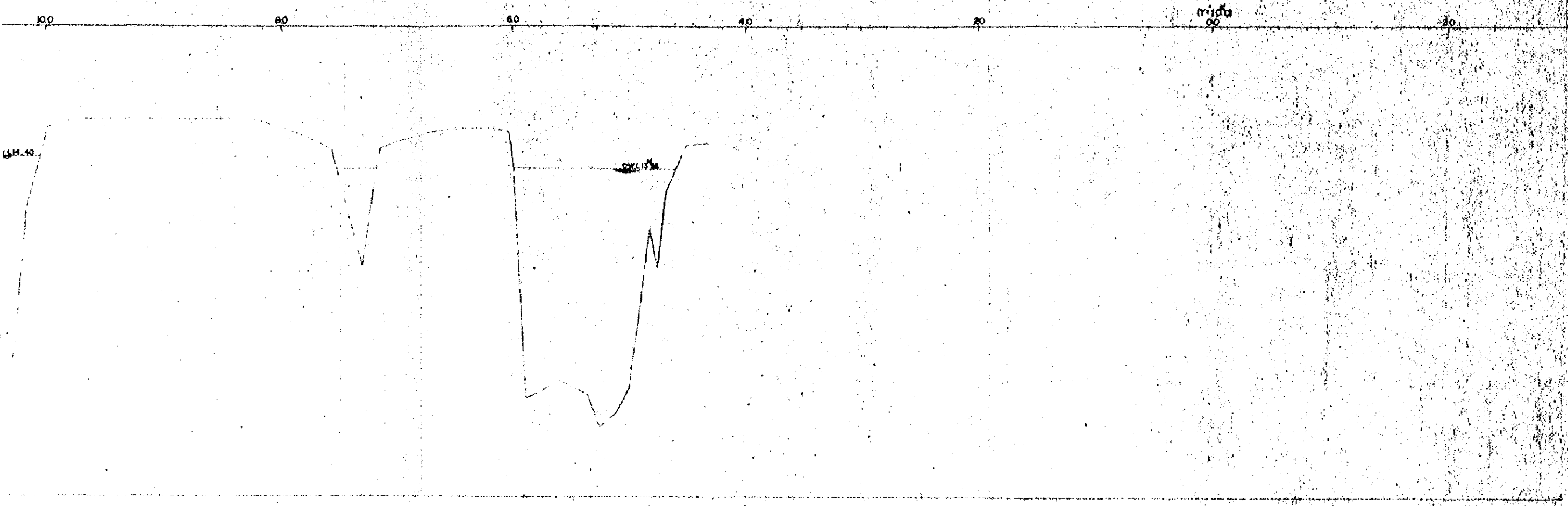


PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H * 1 / 20000 V * 1 / 100	APPROVED BY	
SHEET NO	G - 12	CHECKED BY	
SURVEYED ON	16 - 19 - OCT - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-13



G-13



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE			
SCALE	H = 1/20,000	APPROVED BY	
	V = 1/100		
SHEET NO	G-13	CHECKED BY	
SURVEYED ON	18-19-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

G-14

17,20,000

15
10
5
0
-5
-10
-15
(m)

120 100 80 60 40 20

11140

11140

G-14

100

80

60

40

20

(Y=100)
00

-20

PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND GABARGAON PROPOSED SITE	
SCALE	H = 1/20000 V = 1/100	APPROVED BY	
SHEET NO	G-14	CHECKED BY	
SURVEYED ON	18.19-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 1

10000

1000

200

10.0

80

60

40

20

(Y₁ - 20)

0.0

15

10

5

(RW 0)

-5

-10

-15

(M)

11.170

S - 1

10.0

80

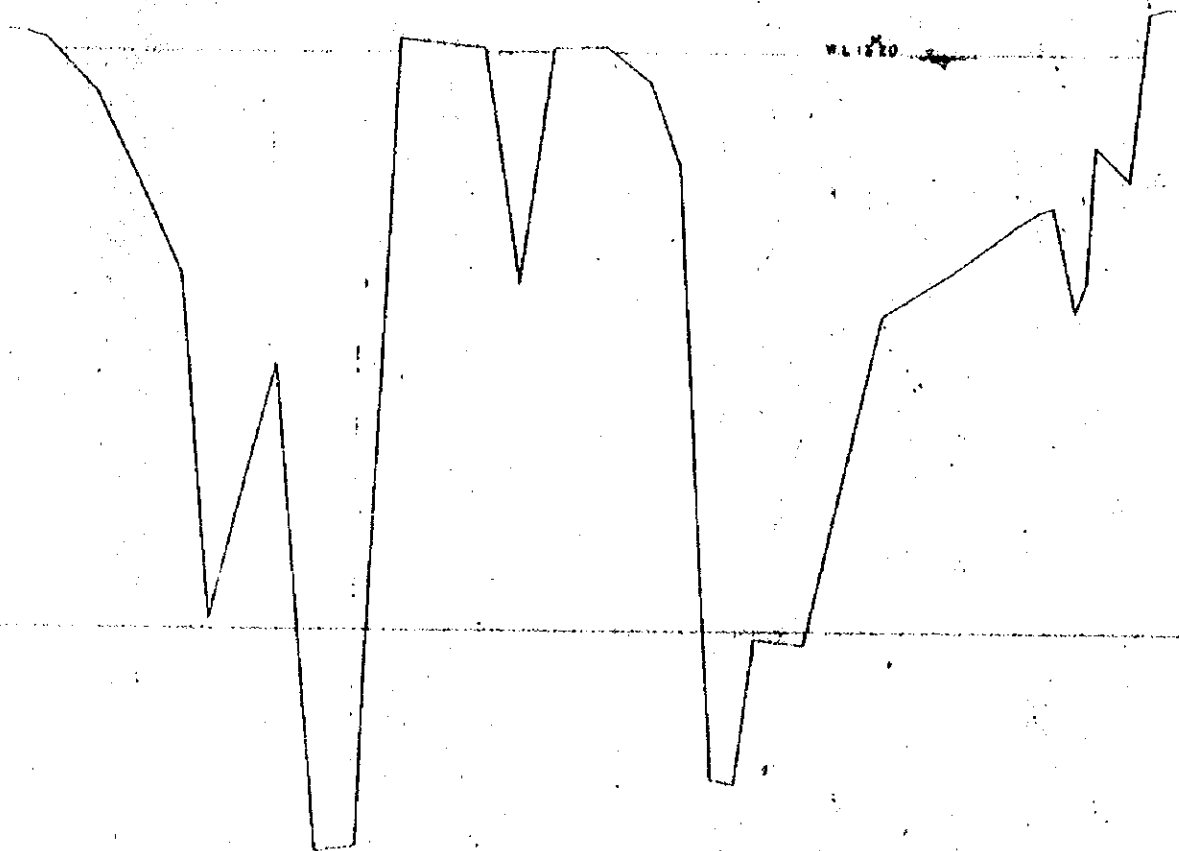
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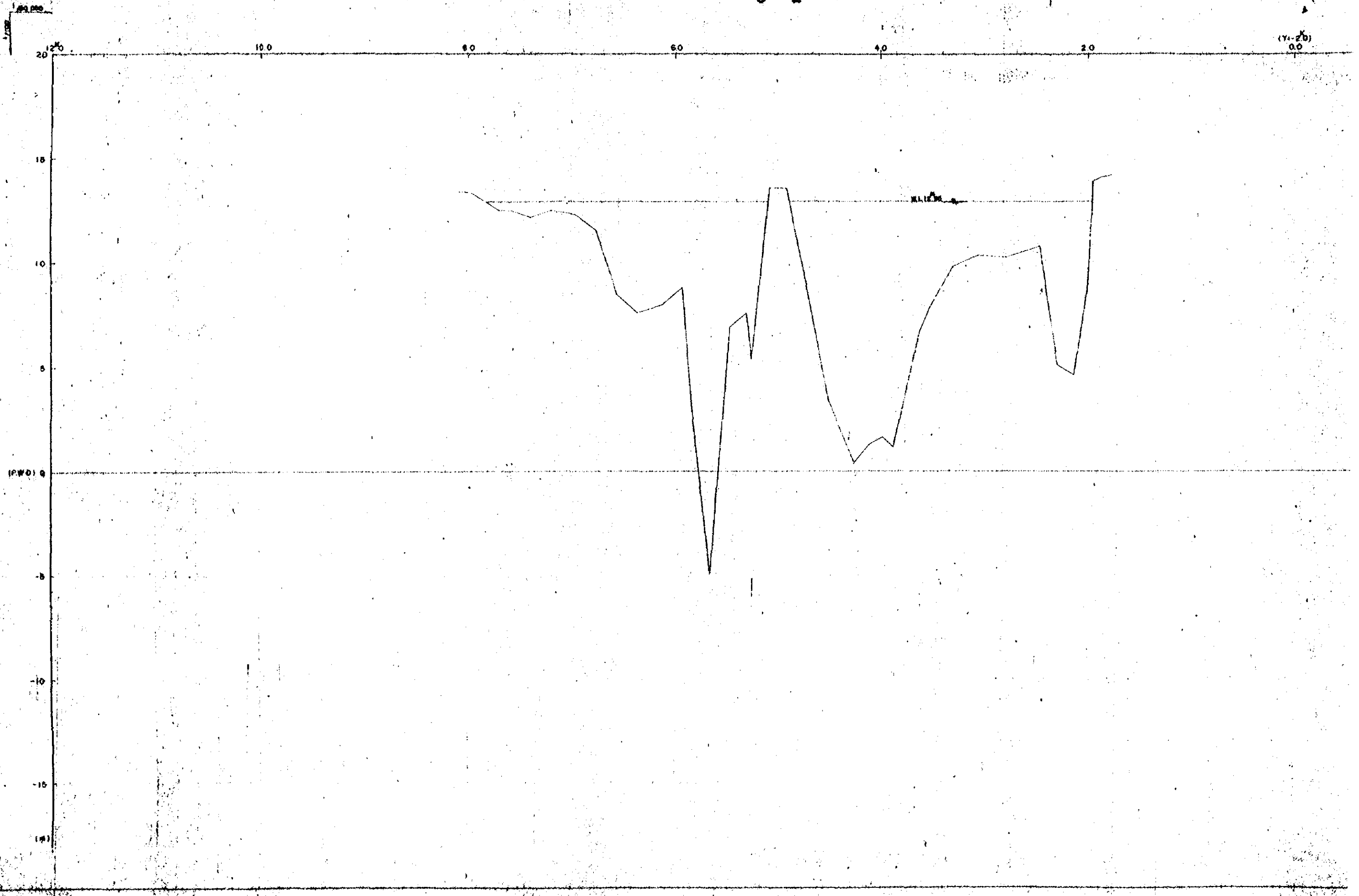
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PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 1	CHECKED BY	
SURVEYED ON	18 - 29 - SEP. 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S-2



S - 2

10.0

80

60

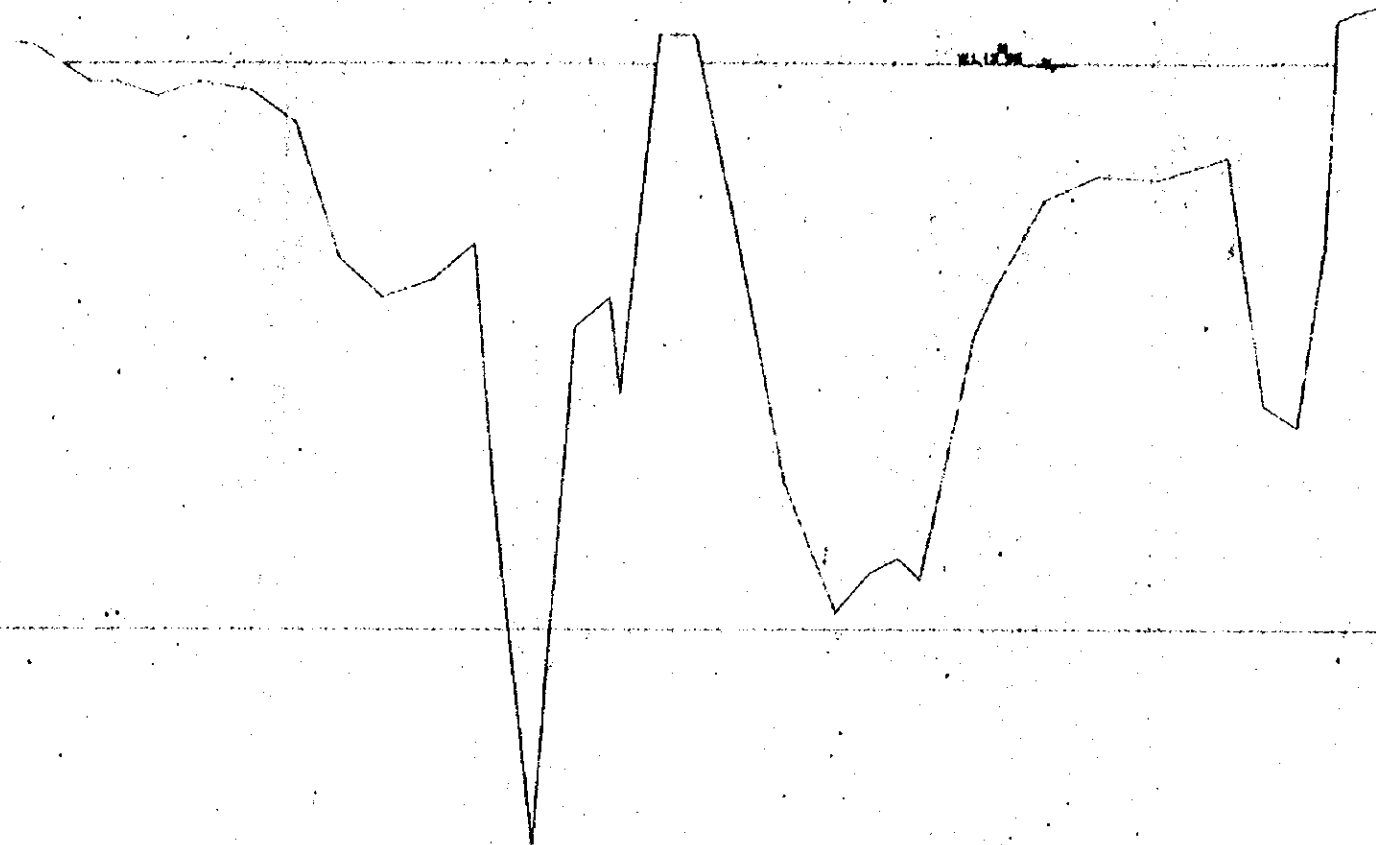
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20

(Y_v-Z_v)
0.0

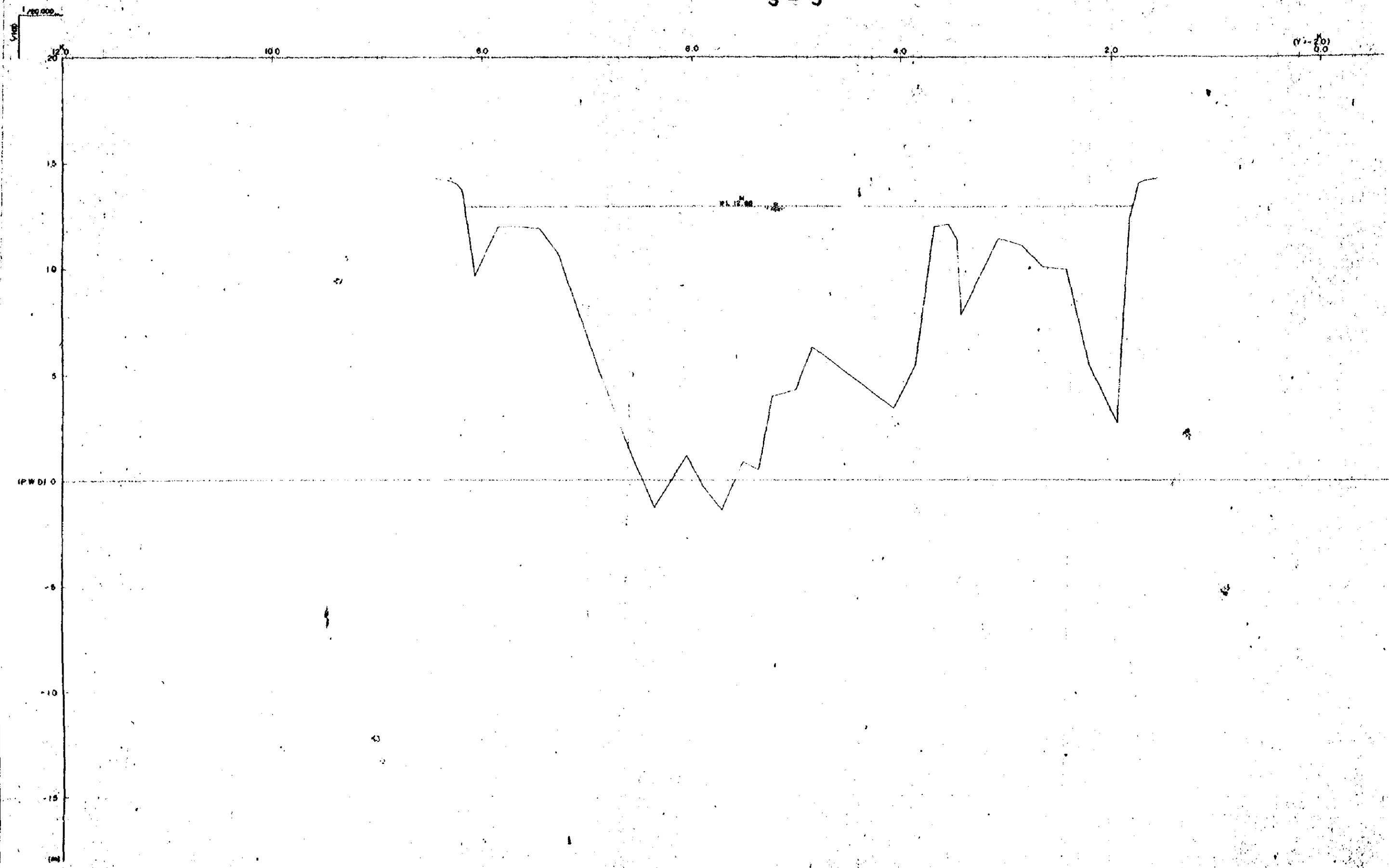
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-10



PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	SIRAJGANJ	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H • 1 / 20000 V • 1 / 100	APPROVED BY
SHEET NO.	S - 2	CHECKED BY
SURVEYED ON	18 - 28 SEP. - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

S - 3



S - 3

100

80

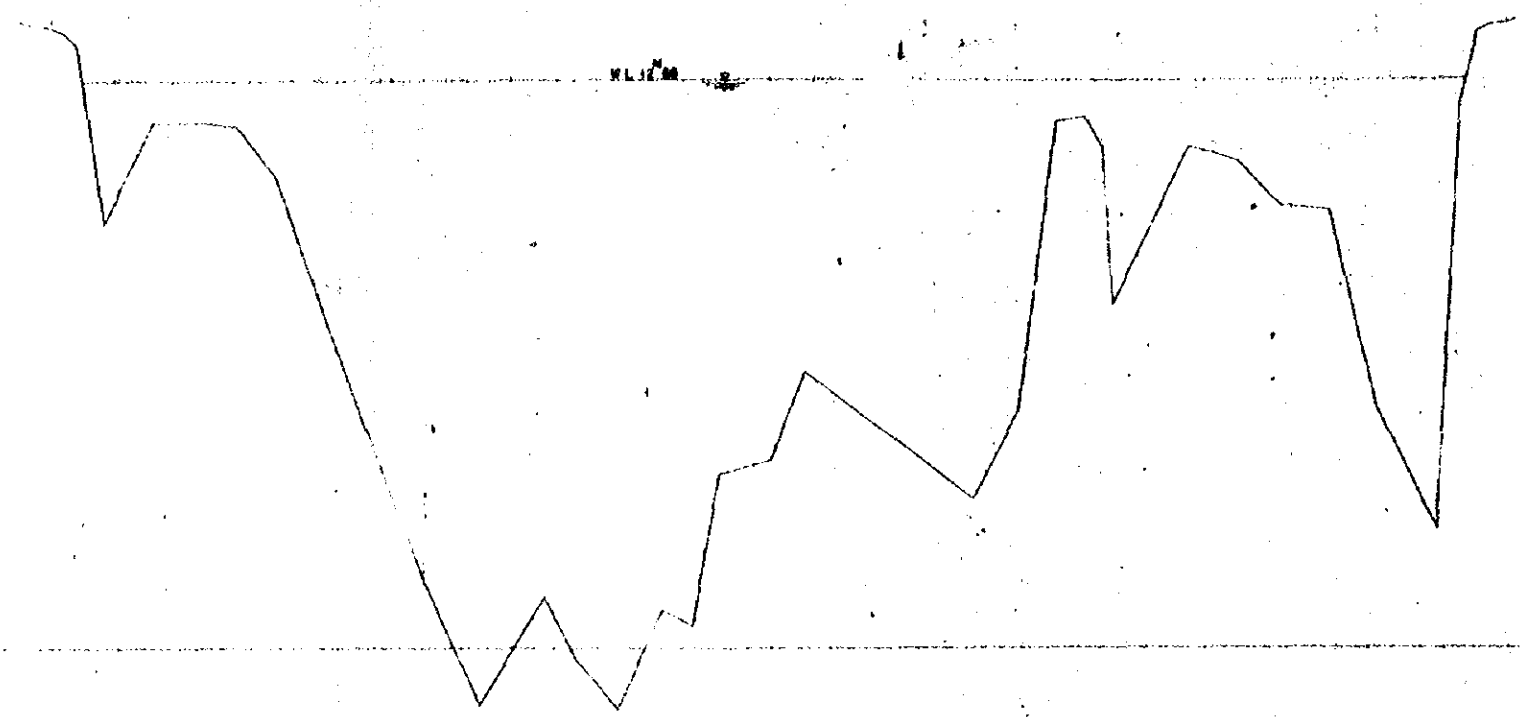
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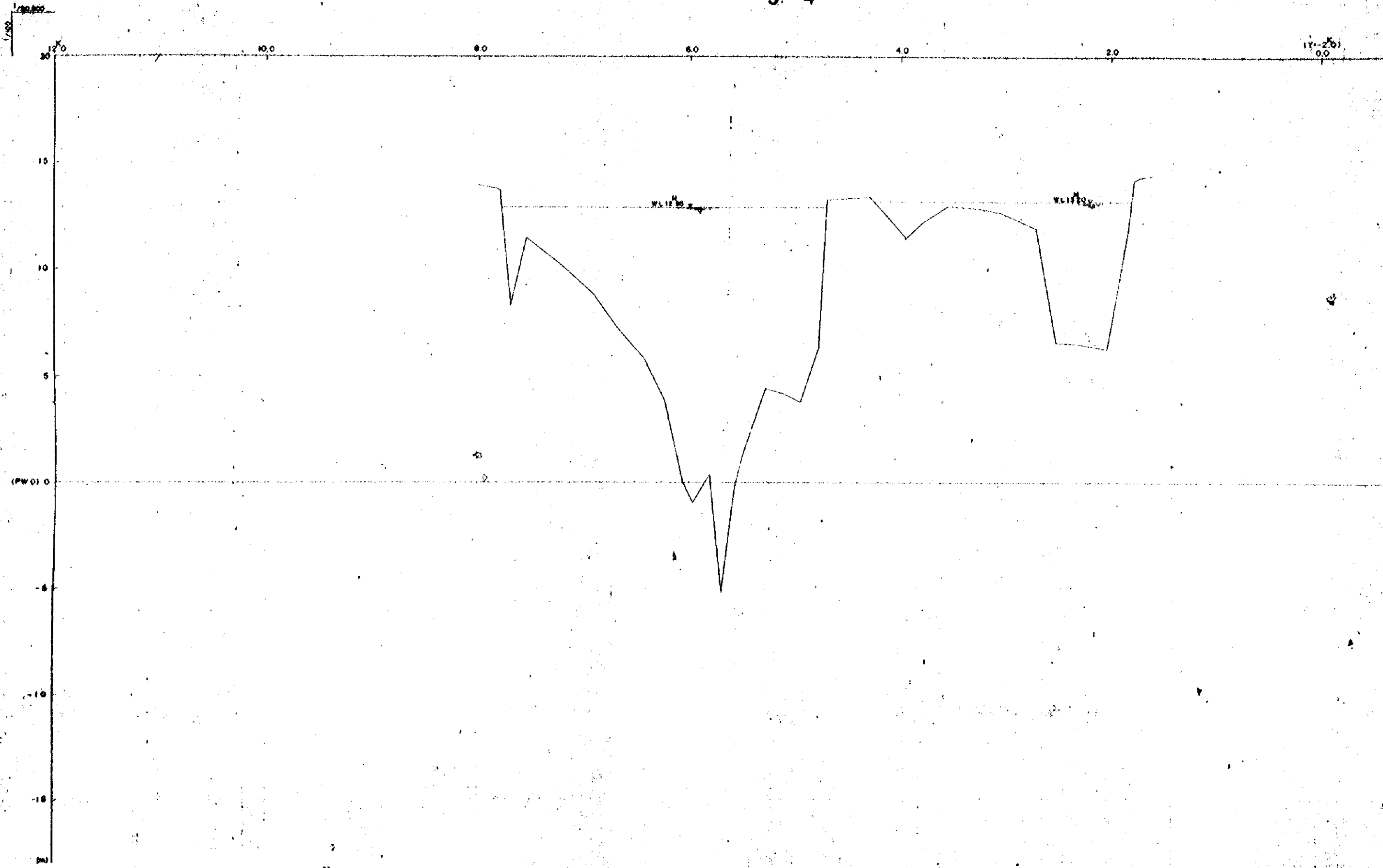
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PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	SIRAJGANJ	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H. 1 / 20,000 V. 1 / 100	APPROVED BY
SHEET NO.	S - 3	CHECKED BY
SURVEYED ON	25-DEC-1973	DRAWN BY
	OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY	INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

S-4



S - 4

10.0

8.0

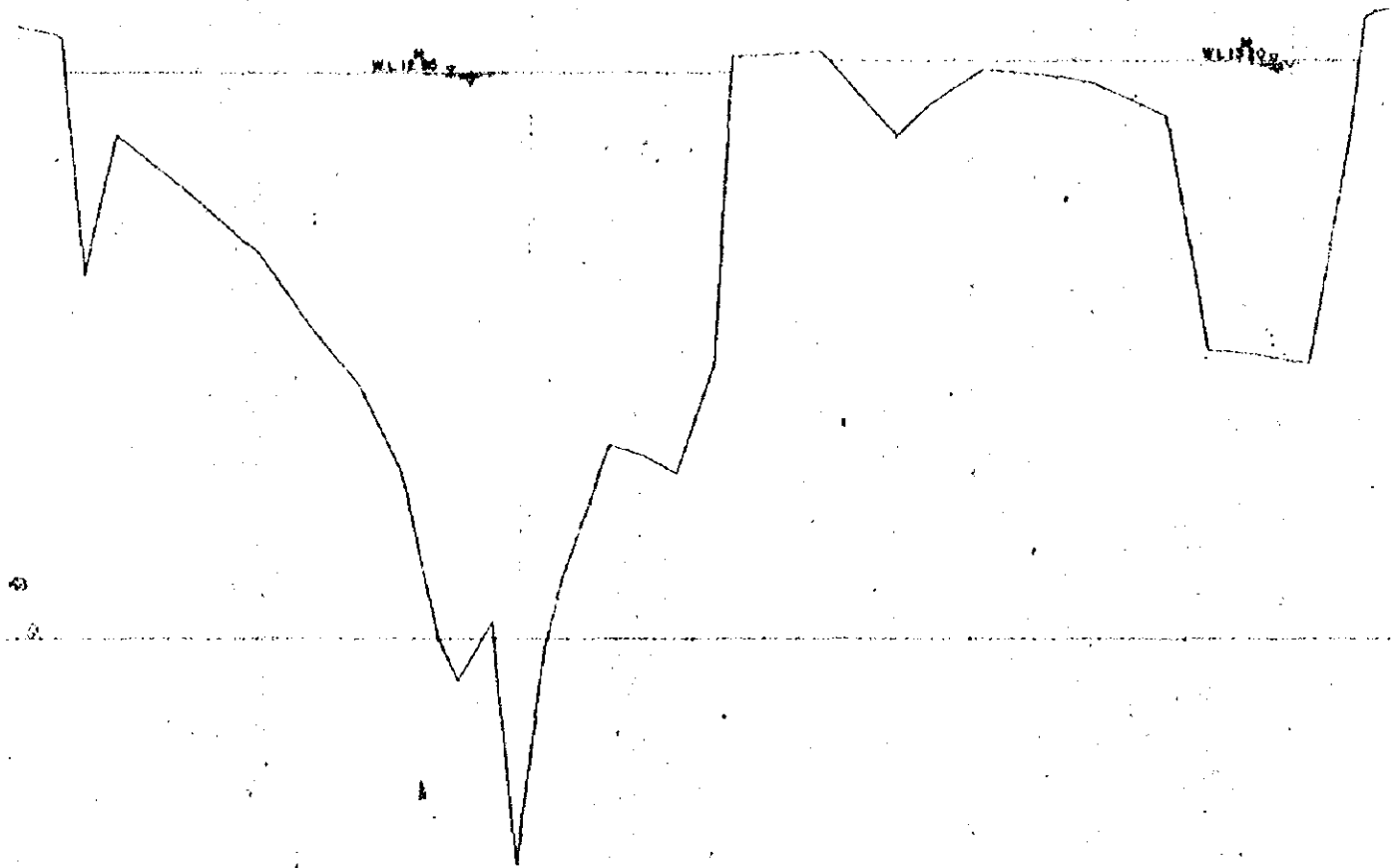
6.0

4.0

2.0

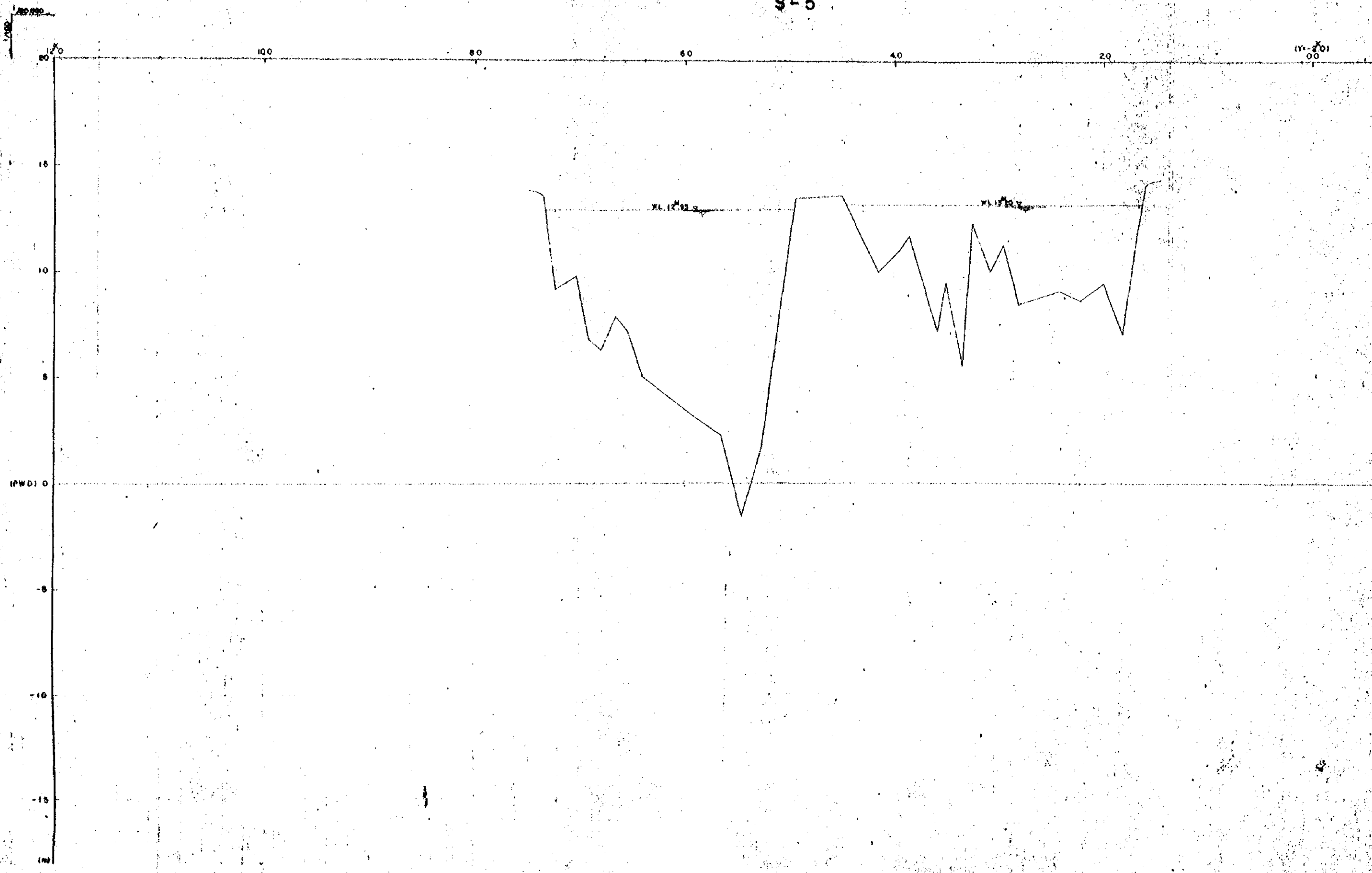
(11-20)
0.0

-2.0



PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE SIRAJGANJ	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE H = 1 / 20000 V = 1 / 100	APPROVED BY
SHEET NO. S - 4	CHECKED BY
SURVEYED ON 18 - 26 - SEP - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

S-5



S-5

100

80

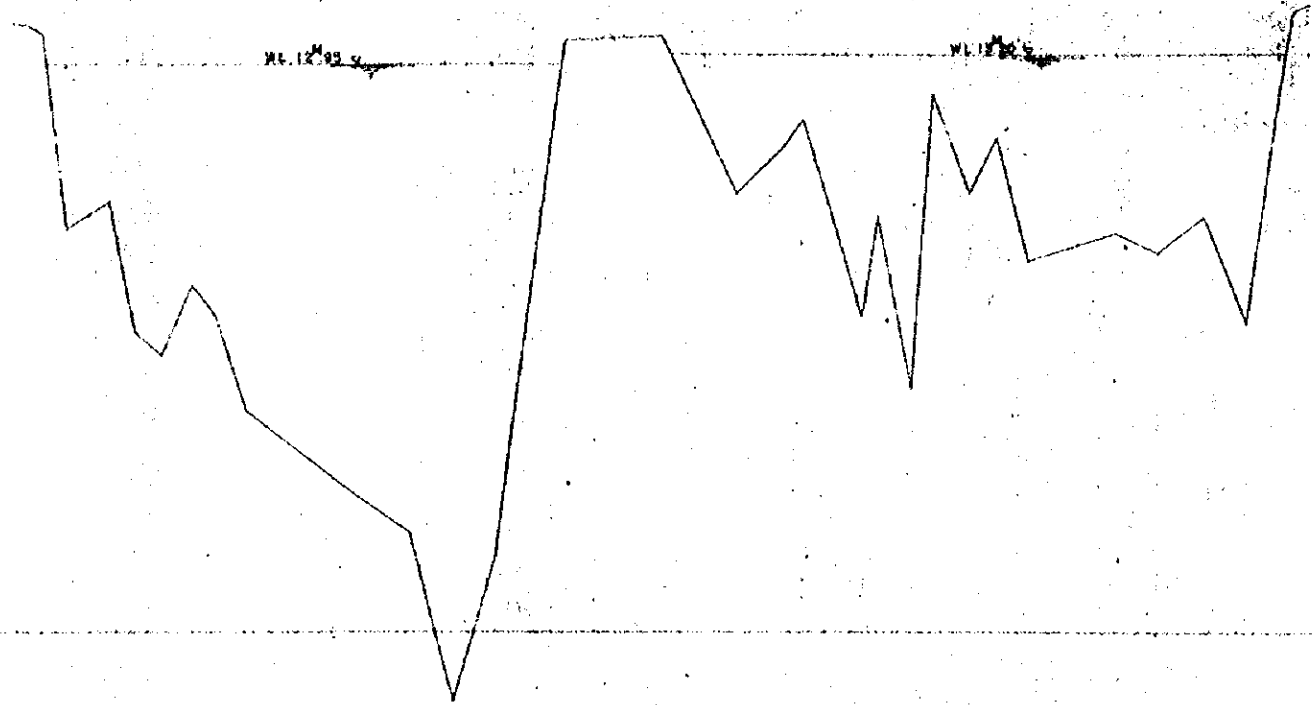
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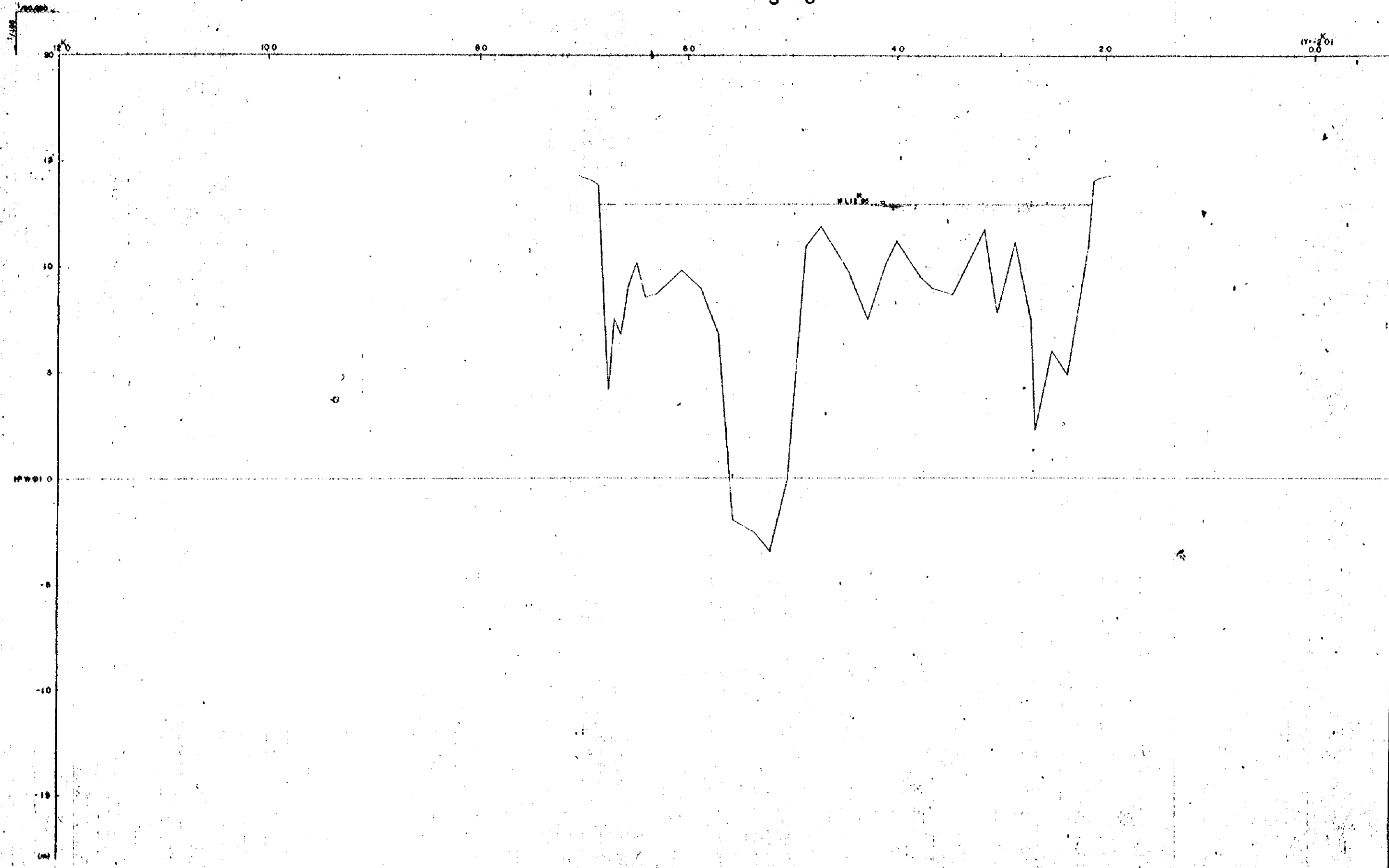
(Y-20)
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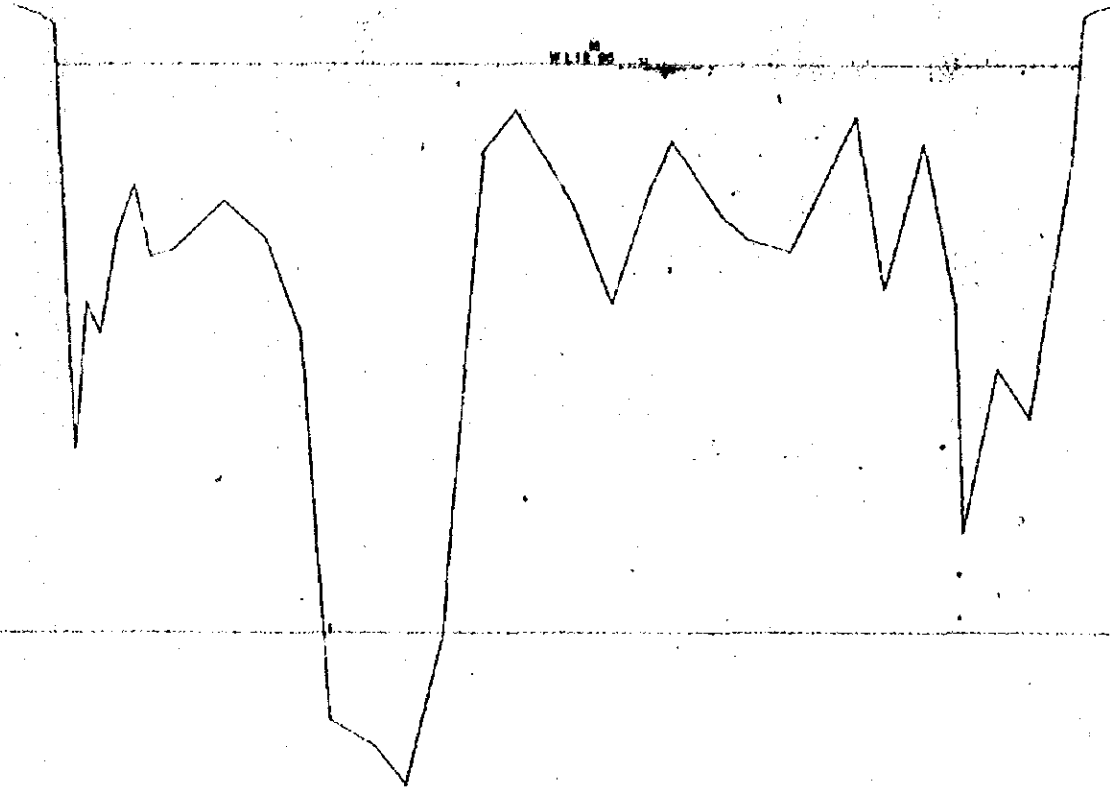
PROJECT BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE SIRAJGANJ	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE H = 1 / 20000 V = 1 / 100	APPROVED BY
SHEET NO. S-5	CHECKED BY
DESIGNED ON 18-25 SEP-1975	DRAWN BY
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

S - 6



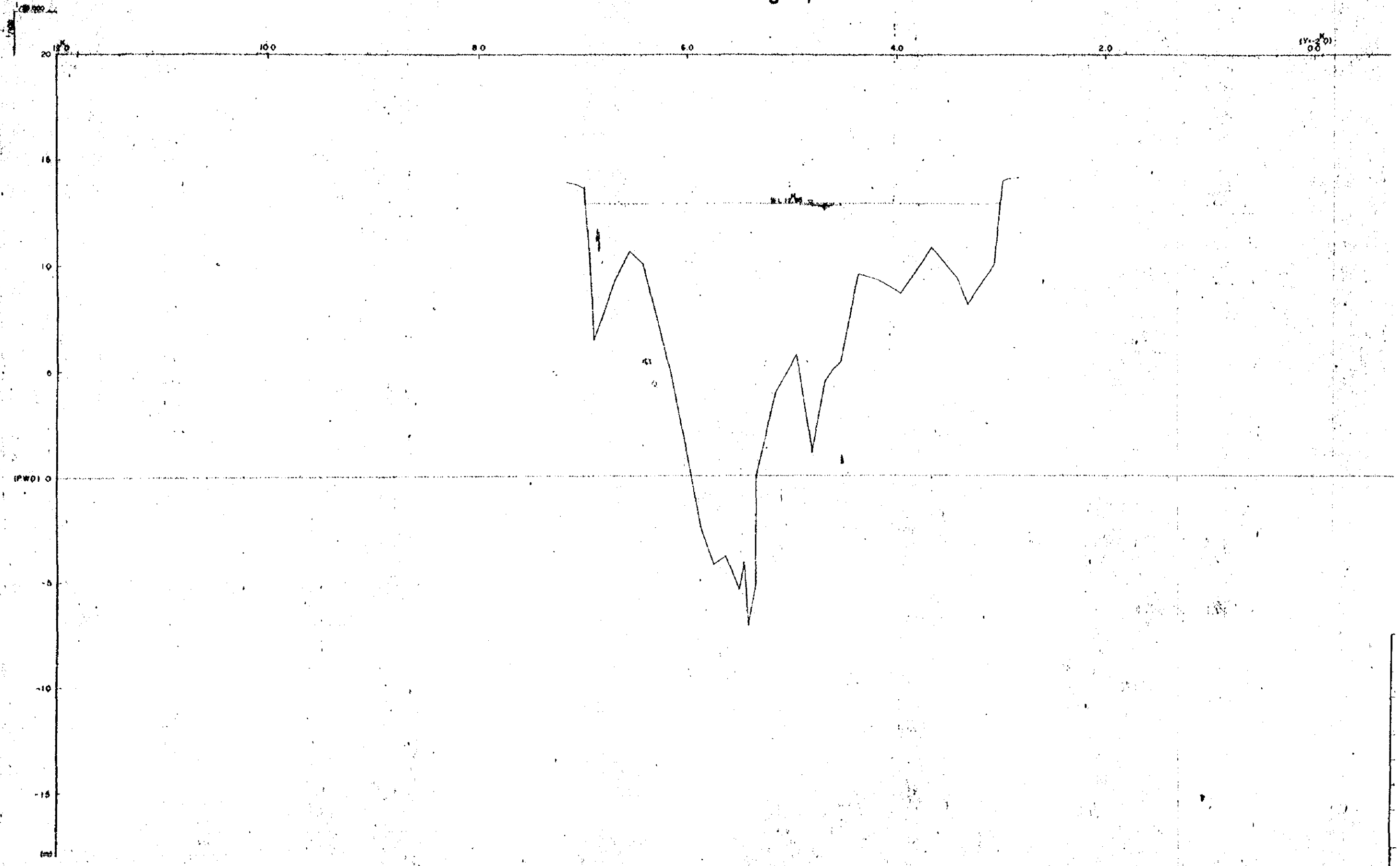
S - 6

100 80 60 40 20 0.0 -20



PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE SIRAJGANJ	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE H = 1 / 20 000 V = 1 / 100	APPROVED BY
SHEET NO. S - 6	CHECKED BY
SURVEYED ON 18 - 20 - SEP - 1973	DRAWN BY
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

S - 7



S - 7

100

80

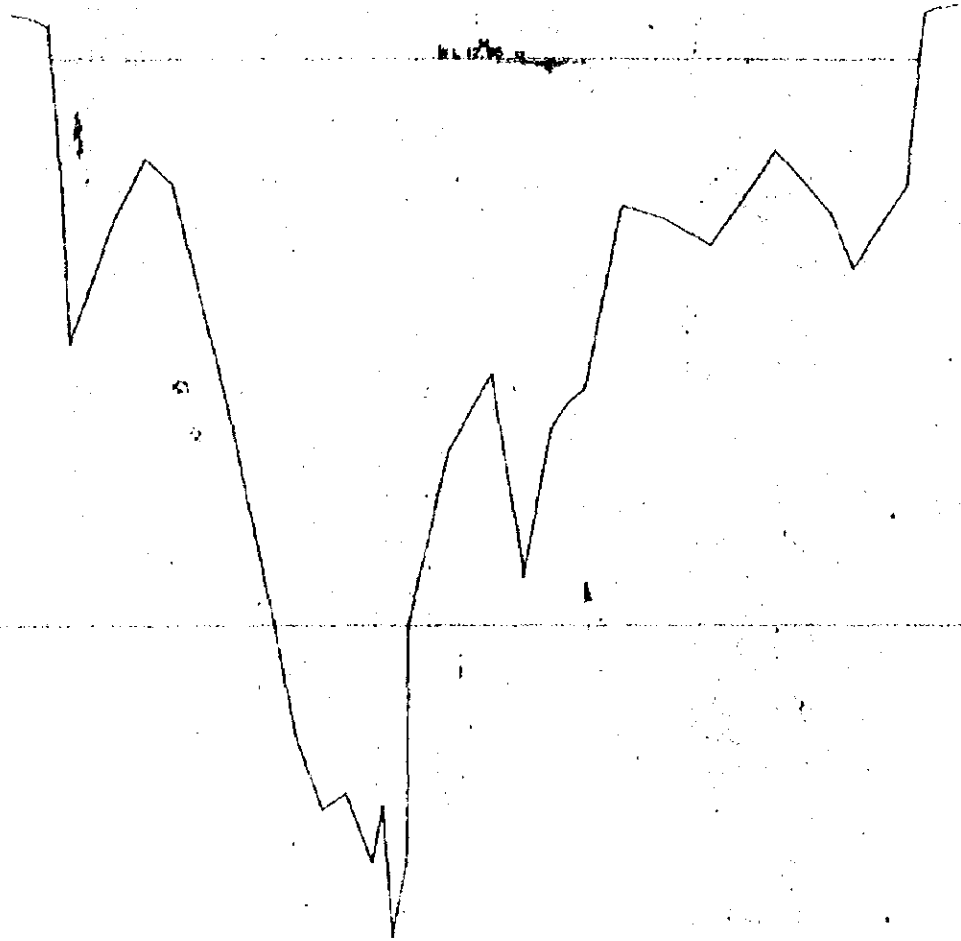
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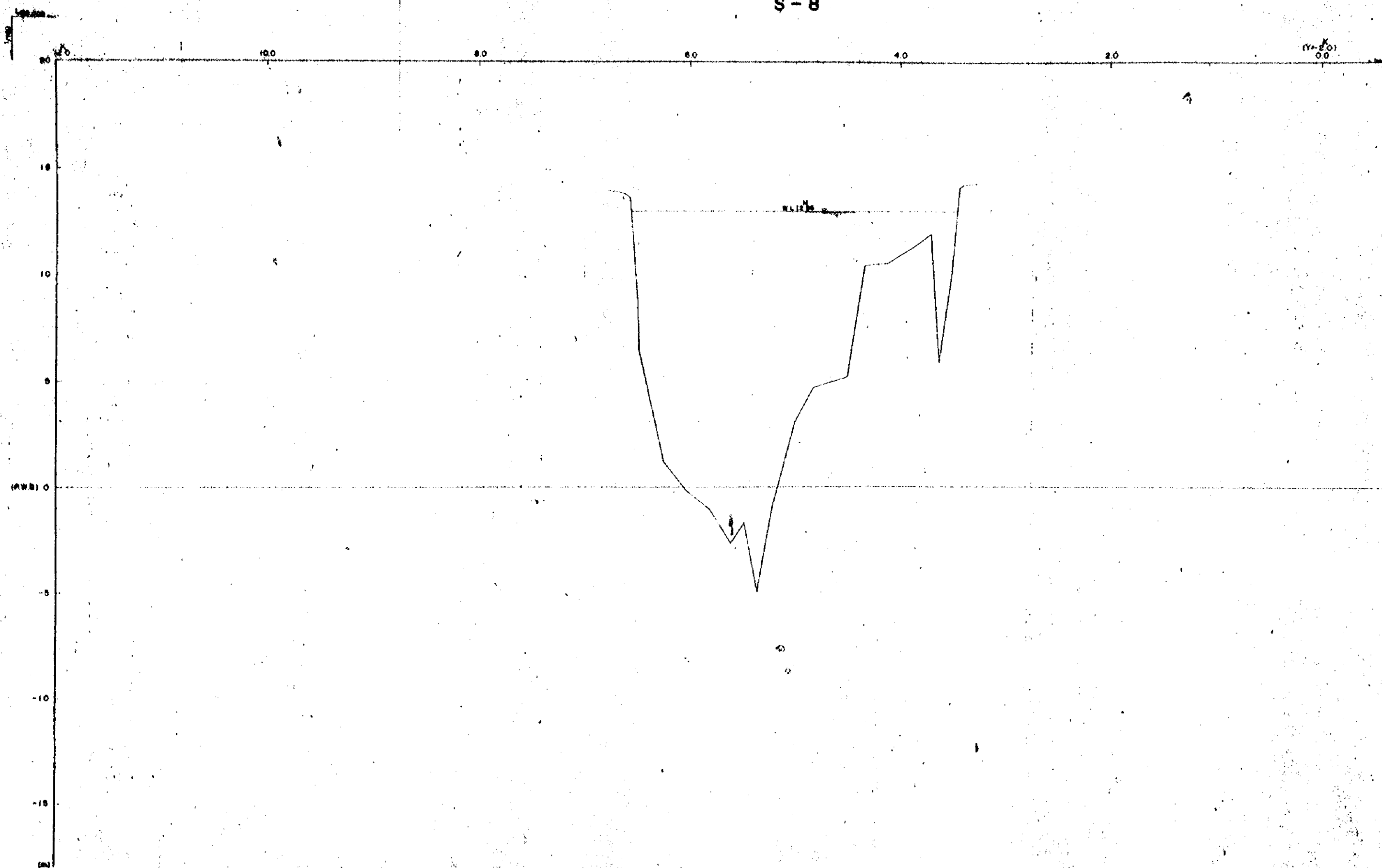
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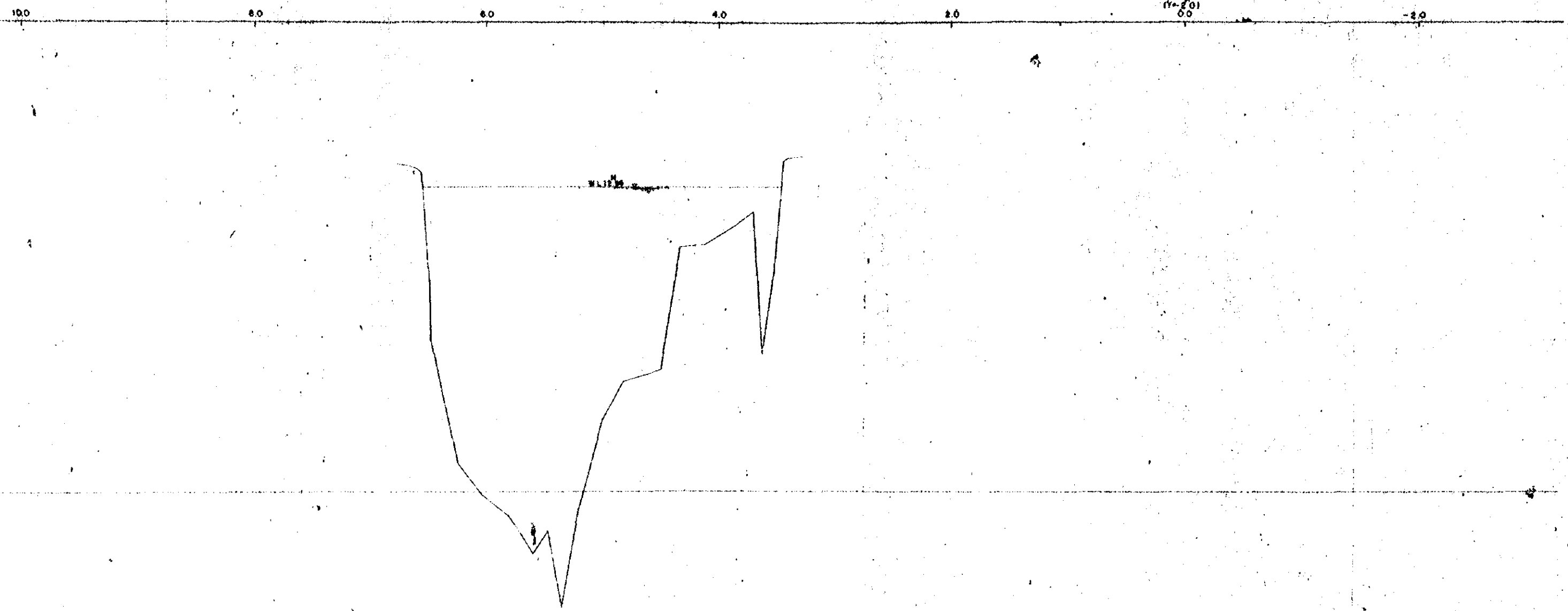


PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H - 1 / 20000 V - 1 / 100	APPROVED BY	
SHEET NO.	S - 7	CHECKED BY	
SURVEYED ON	18 - 15 - SEP - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S-8

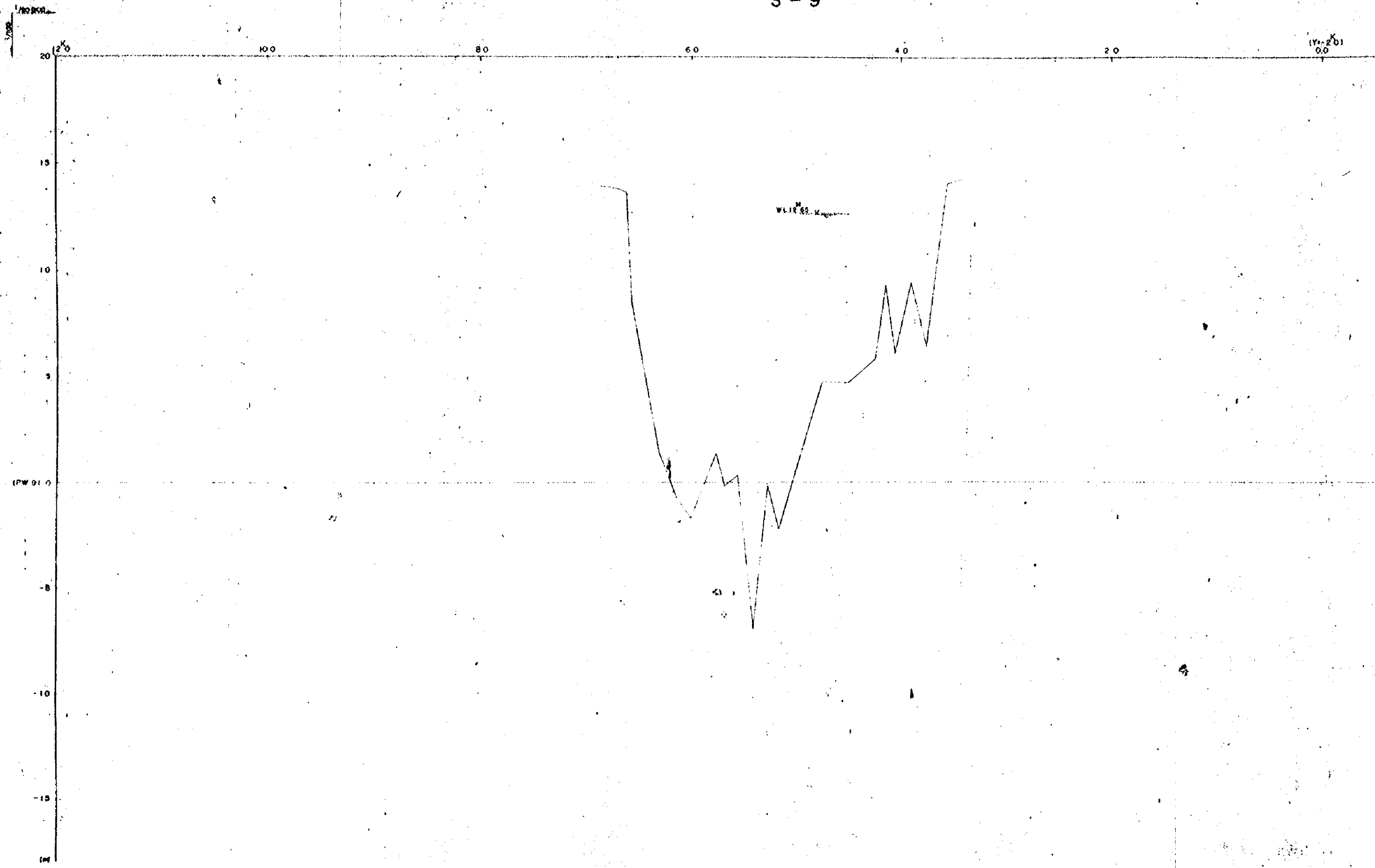


S-8



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 8	CHECKED BY	
SURVEYED ON	18 - 26 - SEP - 1973	DRAWN BY	
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 9



S - 9

100

80

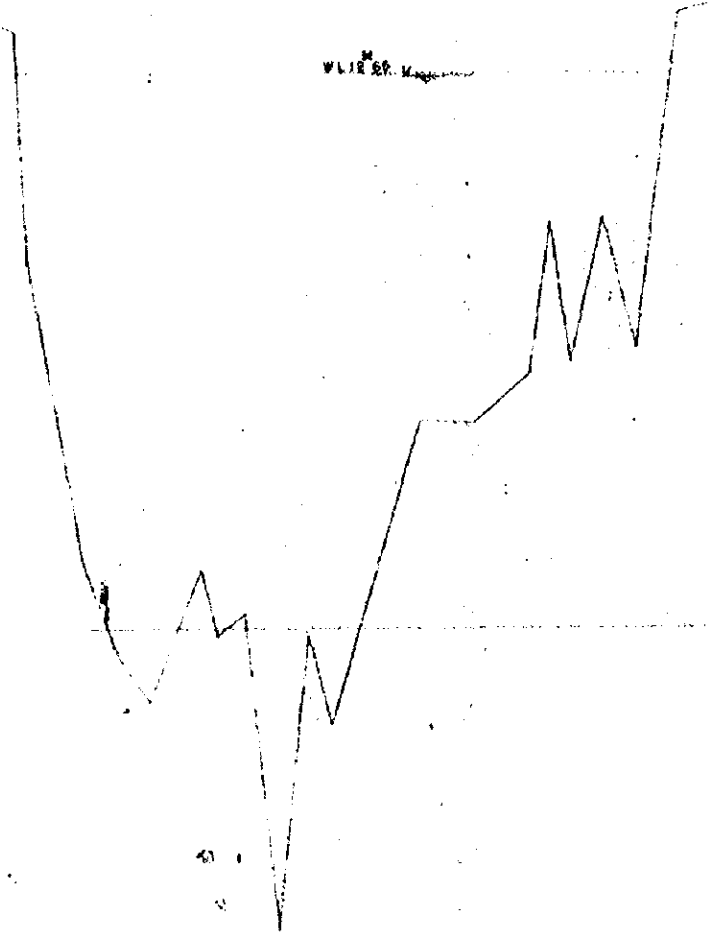
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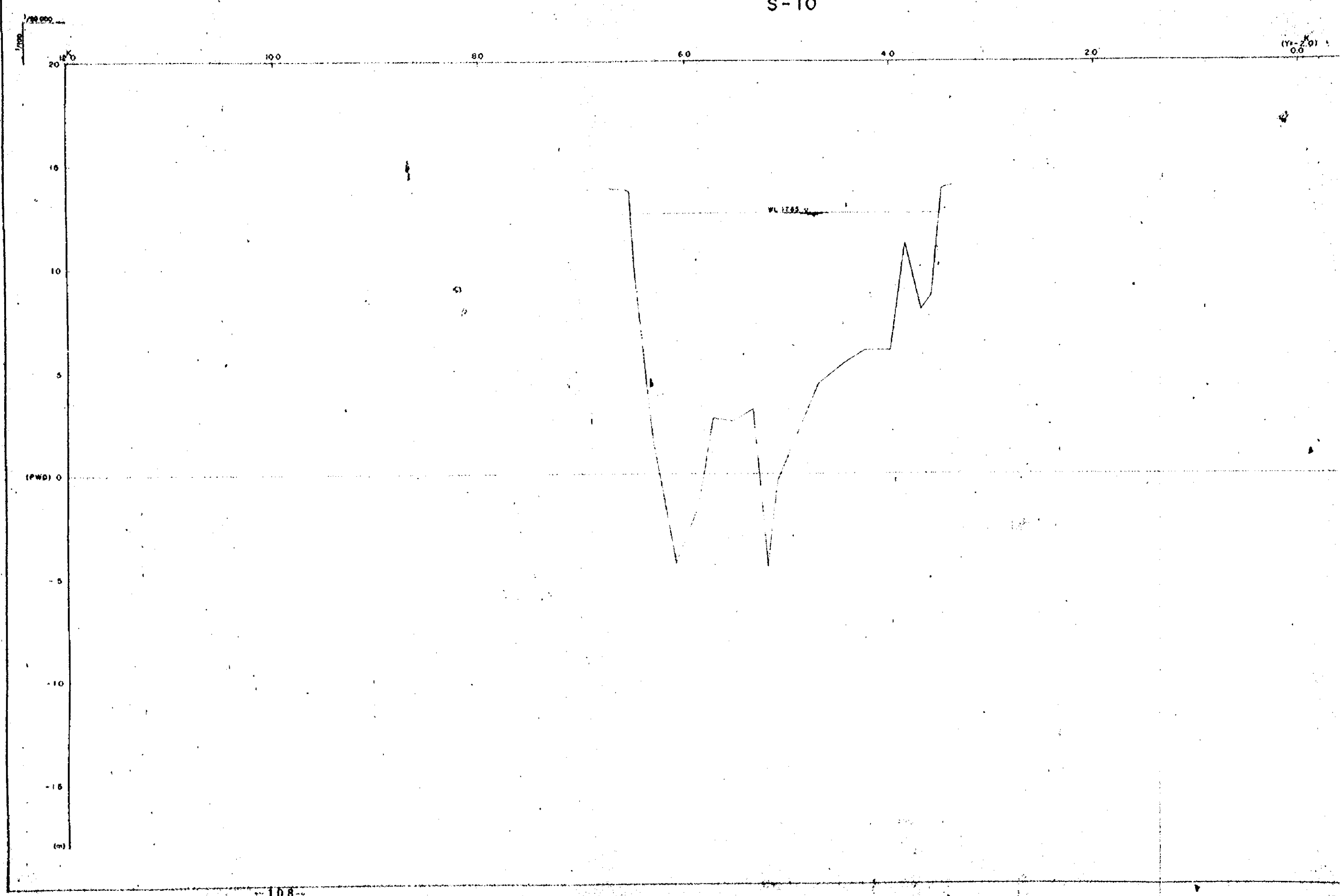
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-20



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO.	3 - 9	CHECKED BY	
SURVEYED ON	18 - 26 - SEP. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S-10



S-10

100

80

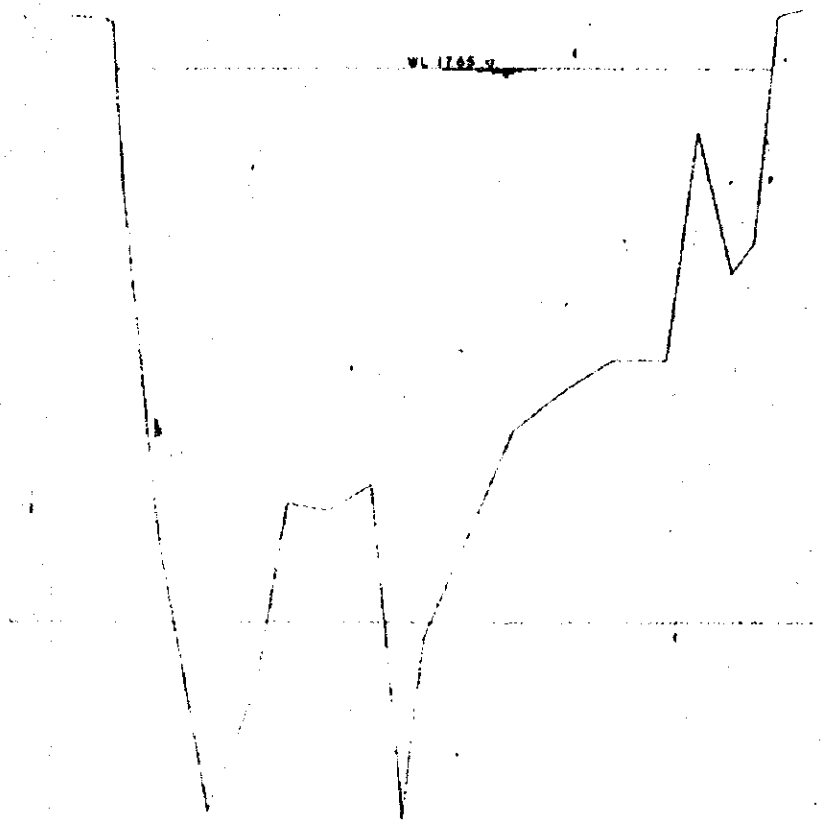
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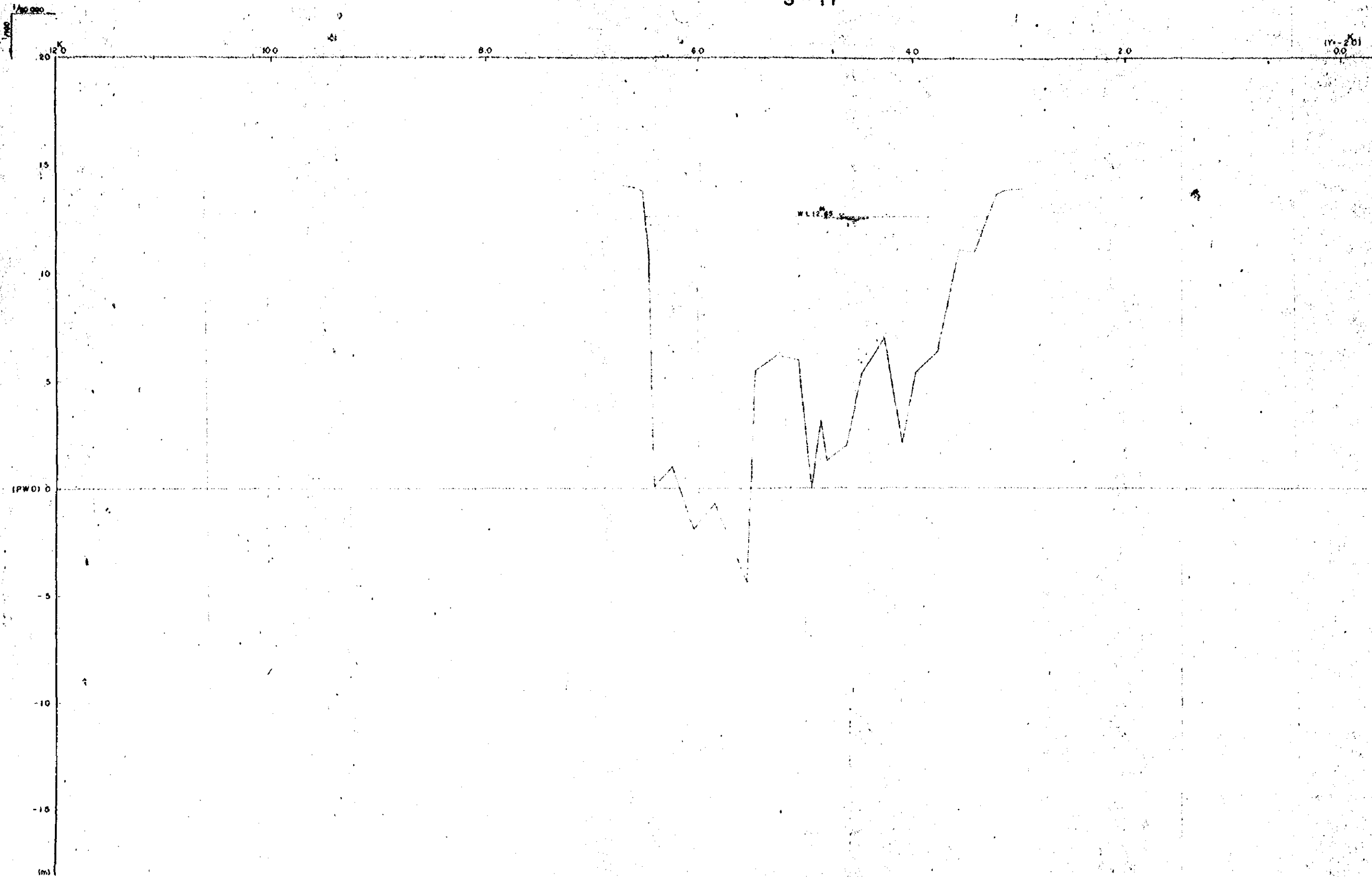
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PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 10	CHECKED BY	
SURVEYED ON	10 - 26 - SEP - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S-11



S - 11

100

80

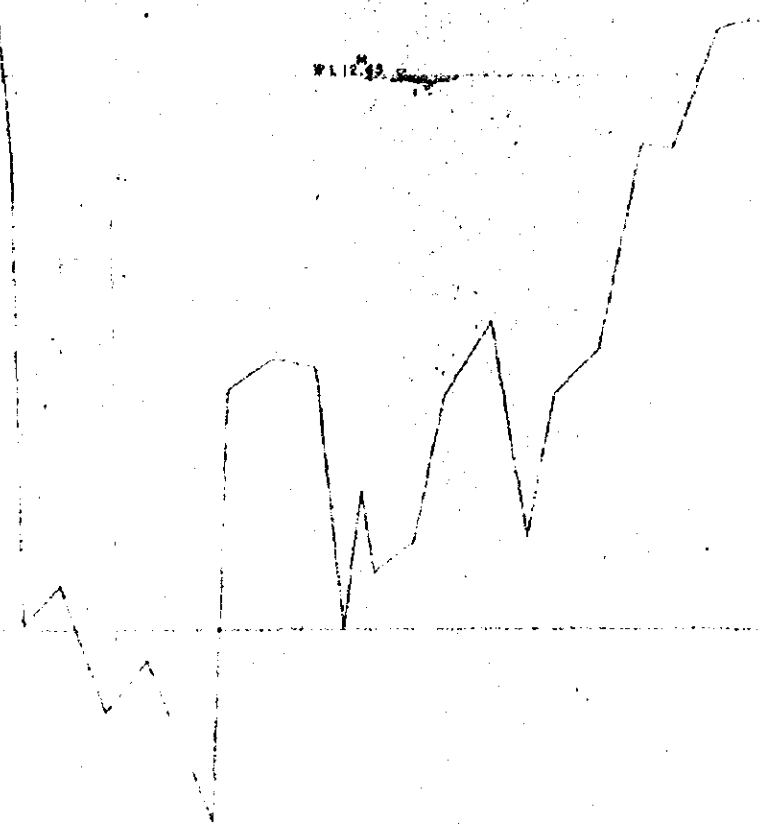
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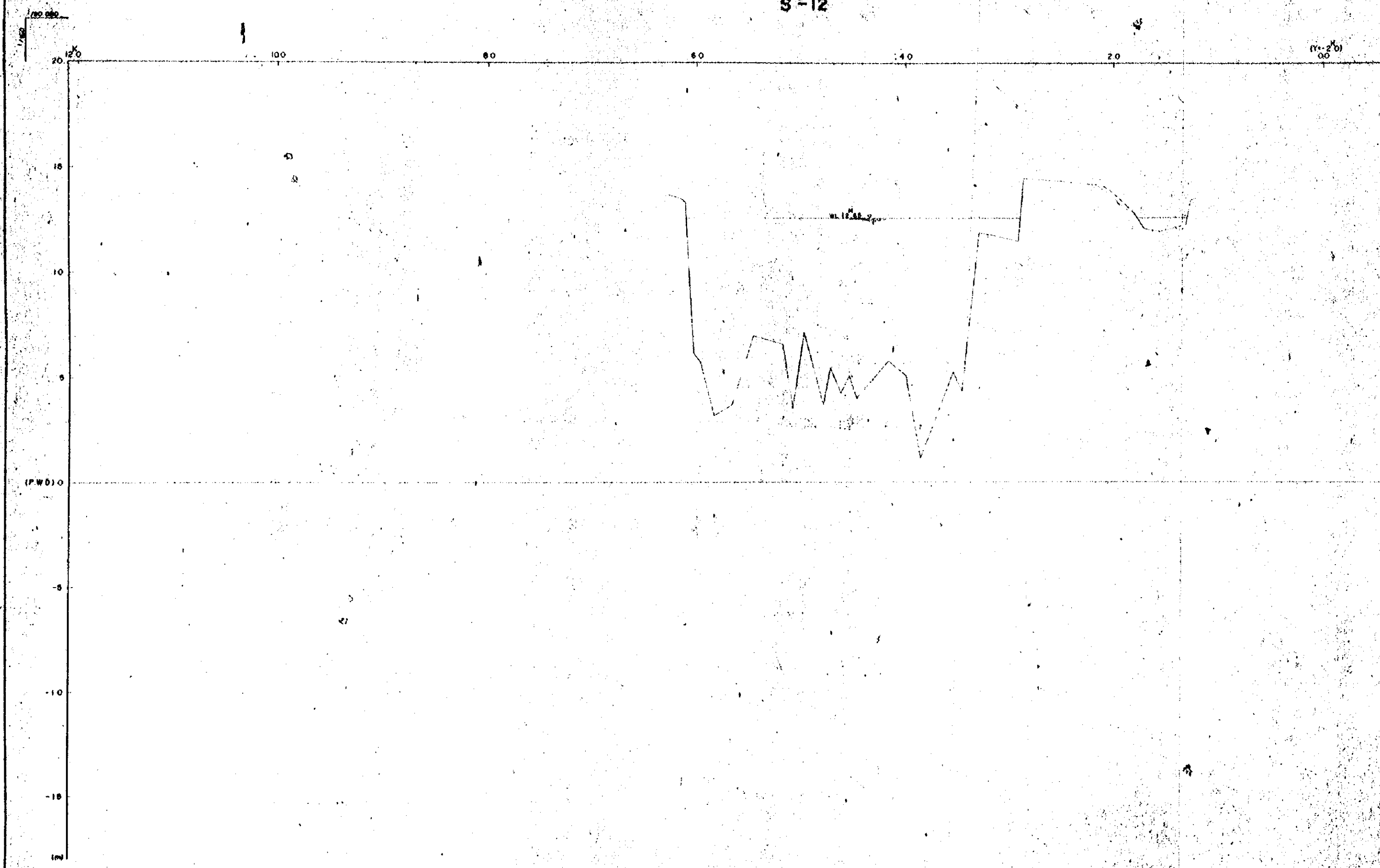
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-20



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 11	CHECKED BY	
SURVEYED ON	18 - 26 - SEP - 1975	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S-12



S-12

100

80

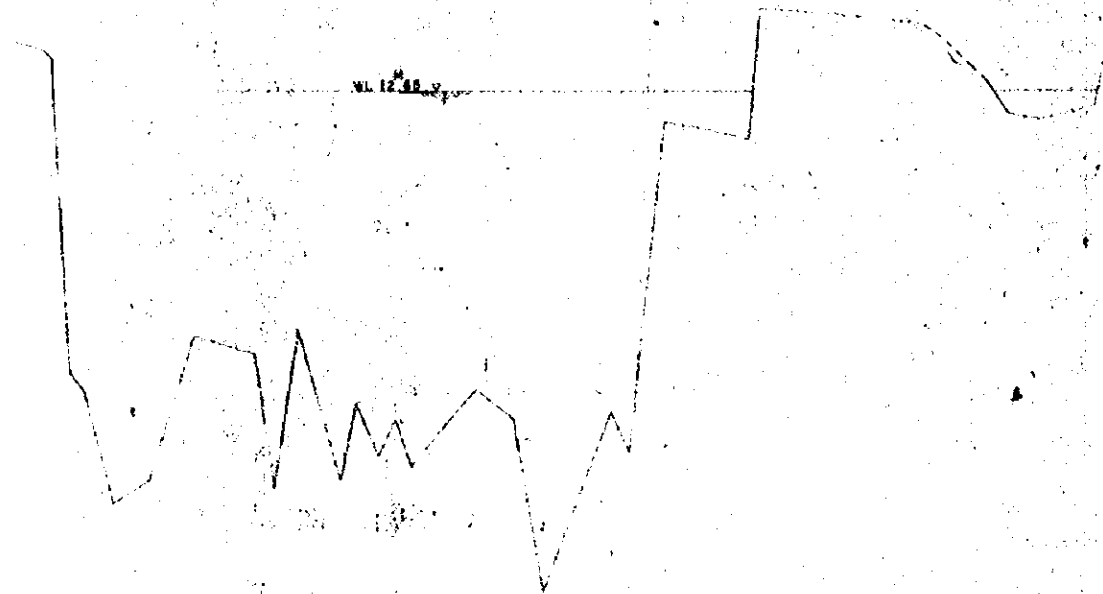
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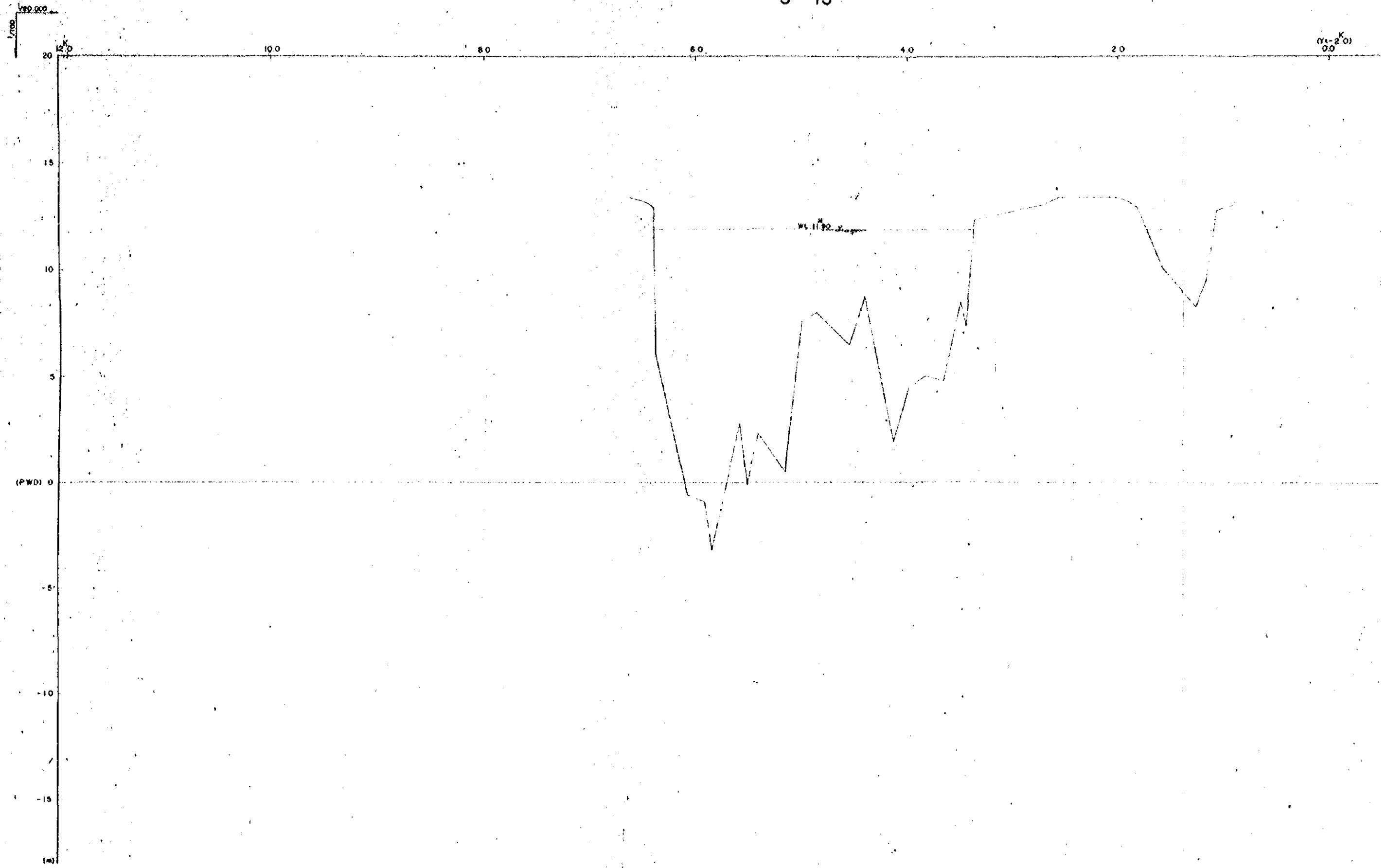
(11-2-01)
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-20



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H. 1 / 20 000 V. 1 / 100	APPROVED BY	
SHEET NO.	S - 12	CHECKED BY	
SURVEYED ON	18 - 25 - SEP. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 13



S - 13

100

80

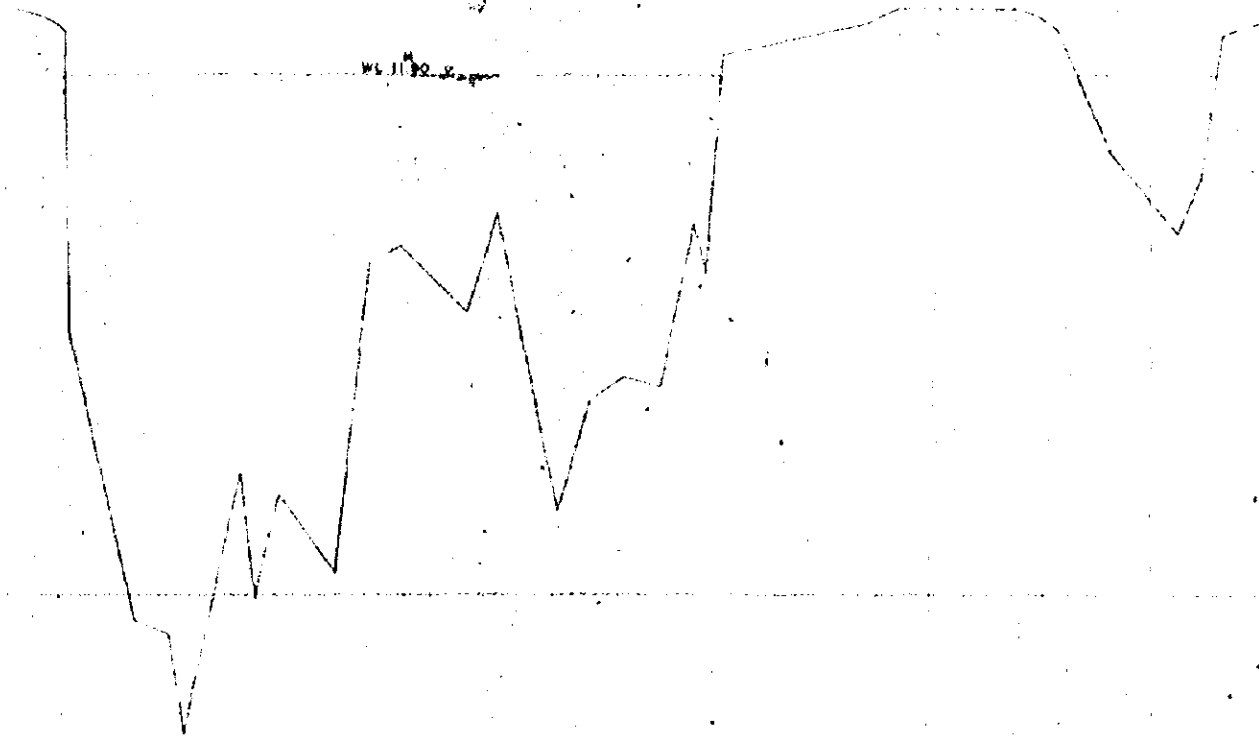
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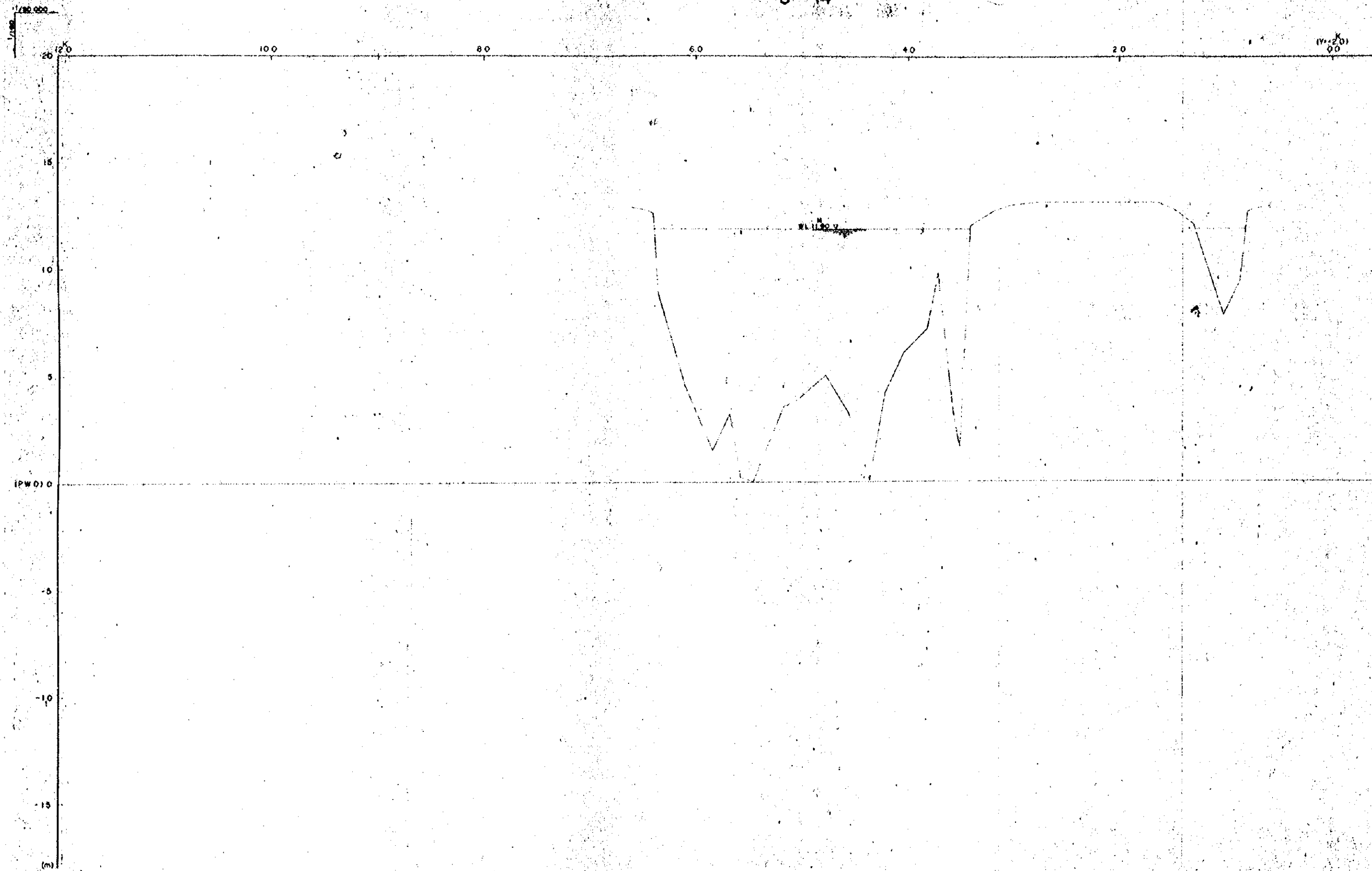
(11-20)
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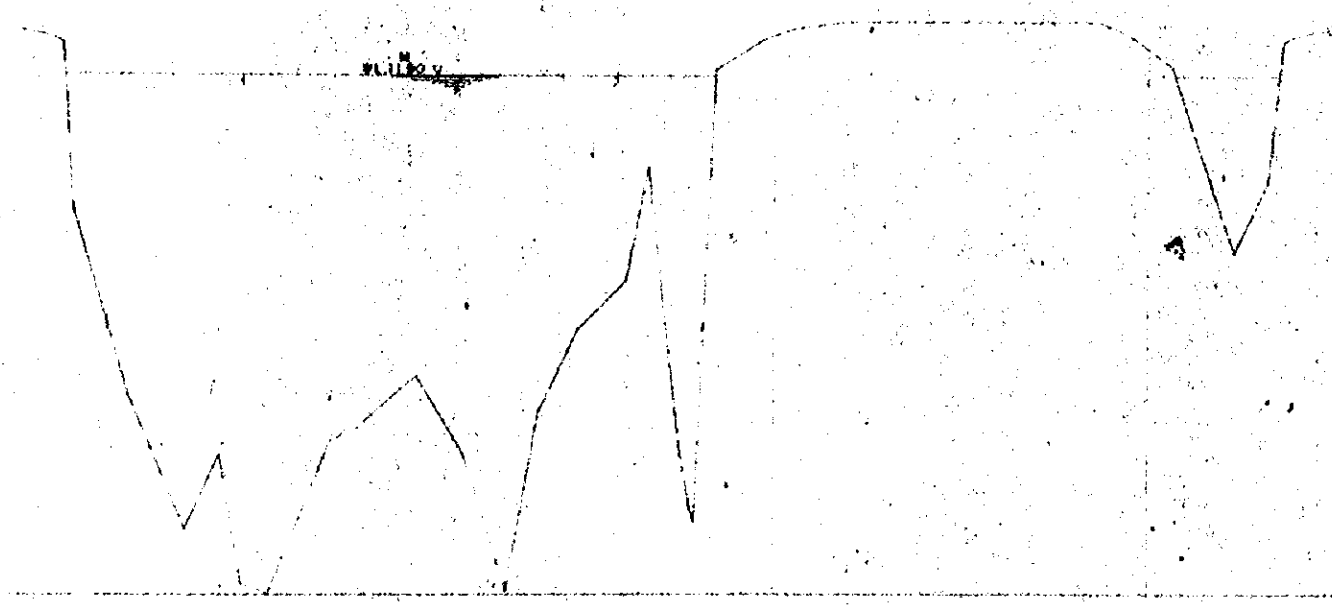
PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H · 1 / 20000 V · 1 / 100	APPROVED BY	
SHEET NO.	S - 13	CHECKED BY	
SURVEYED ON	18 - 26 - SET. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 14



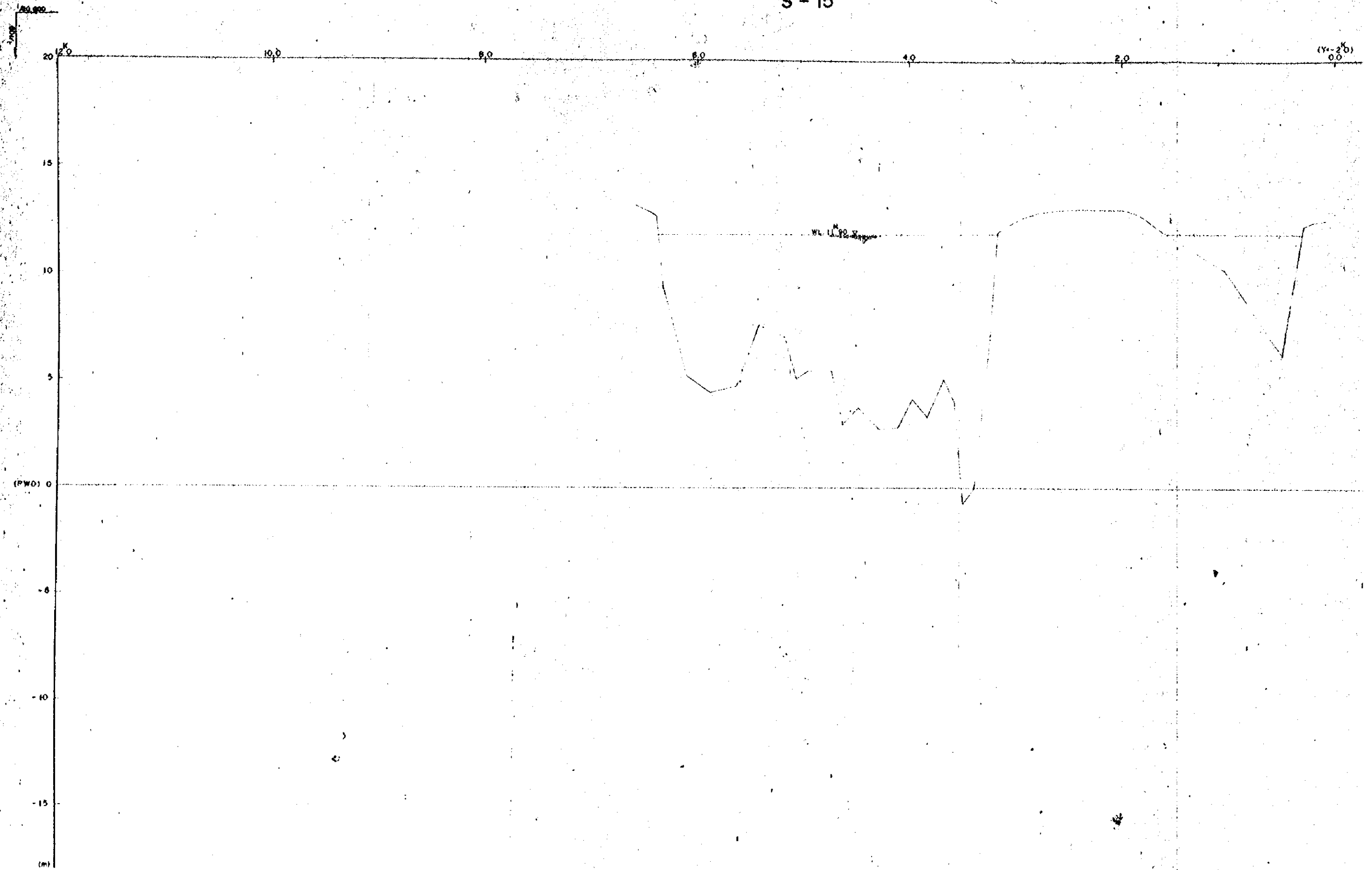
S - 14

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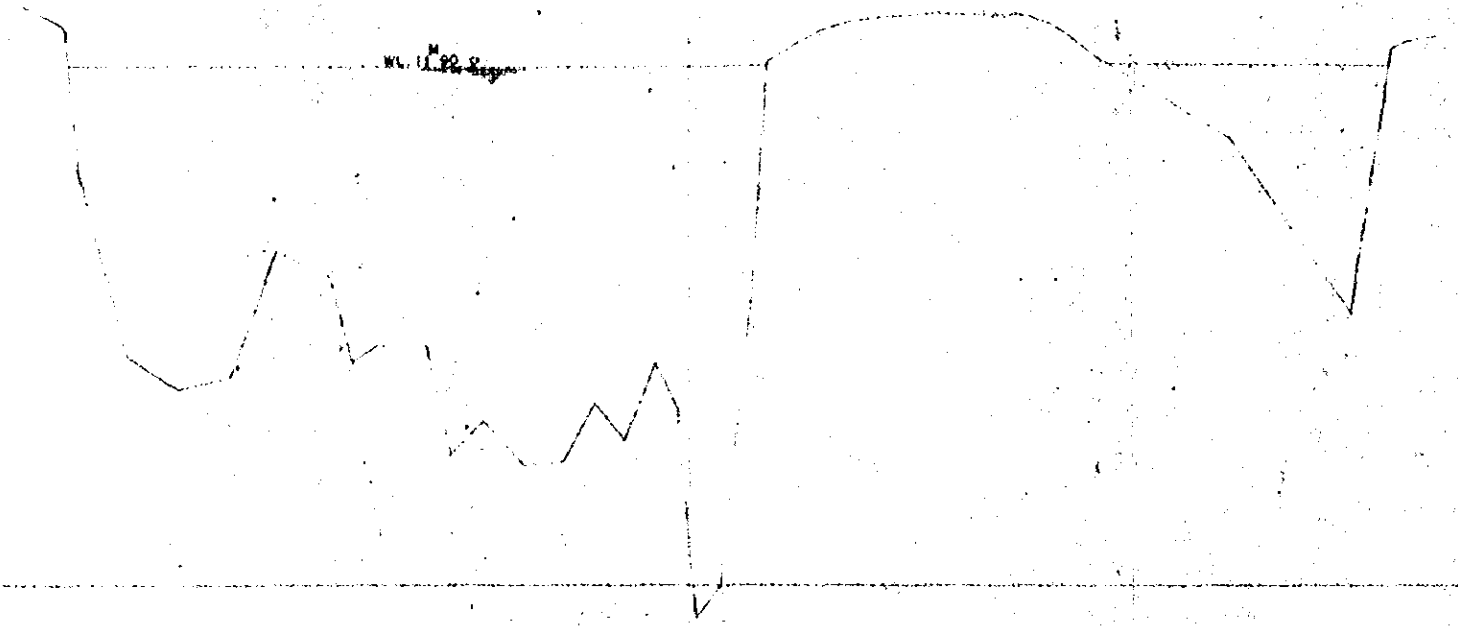
PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE SIRAJGANJ	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE H. 1 / 20000 V. 1 / 100	APPROVED BY
SHEET NO. 8 - 14	CHECKED BY
SURVEYED ON 18 - 26 - SET - 1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

S - 15



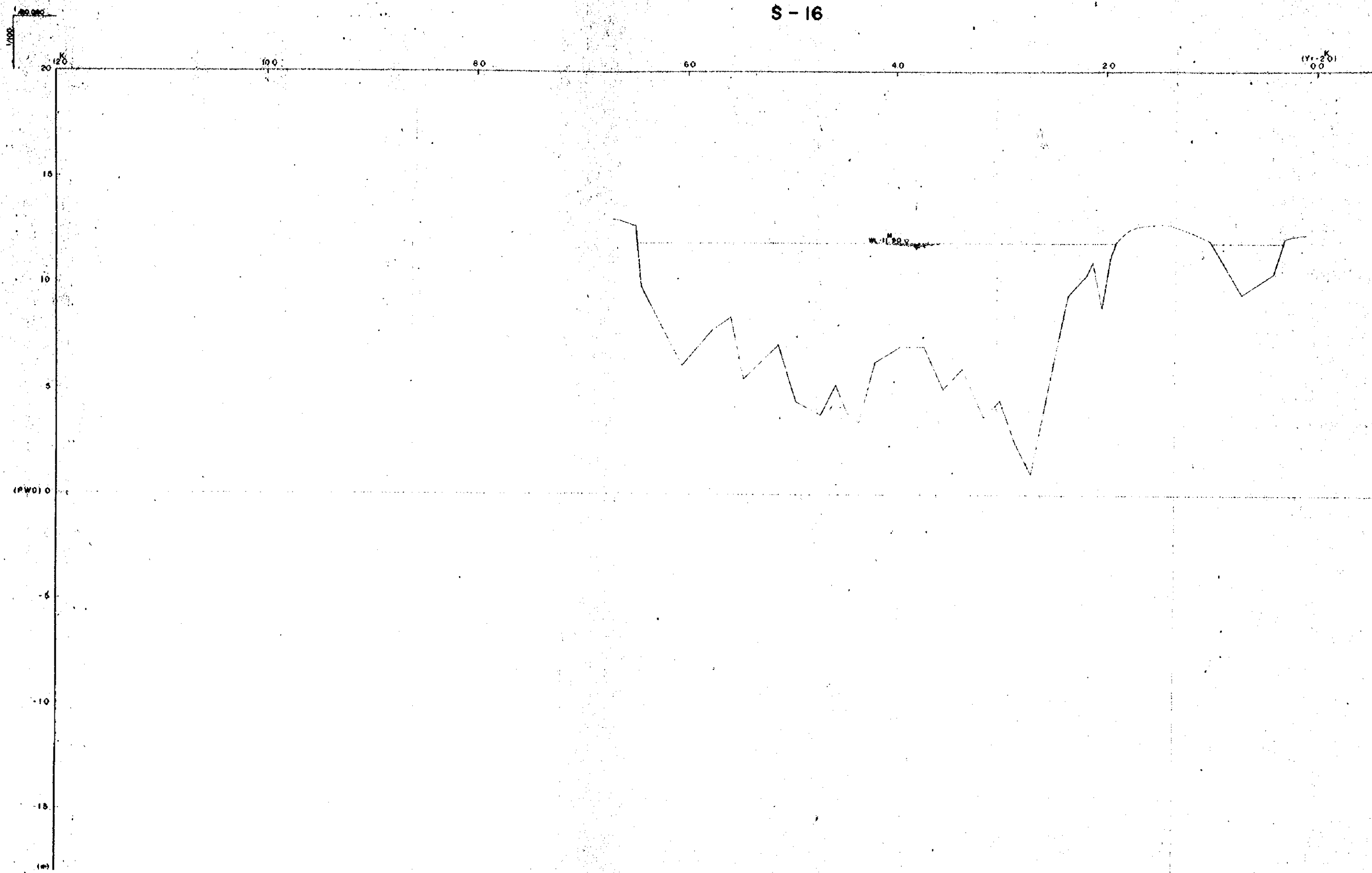
S - 15

10.0 9.0 8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0

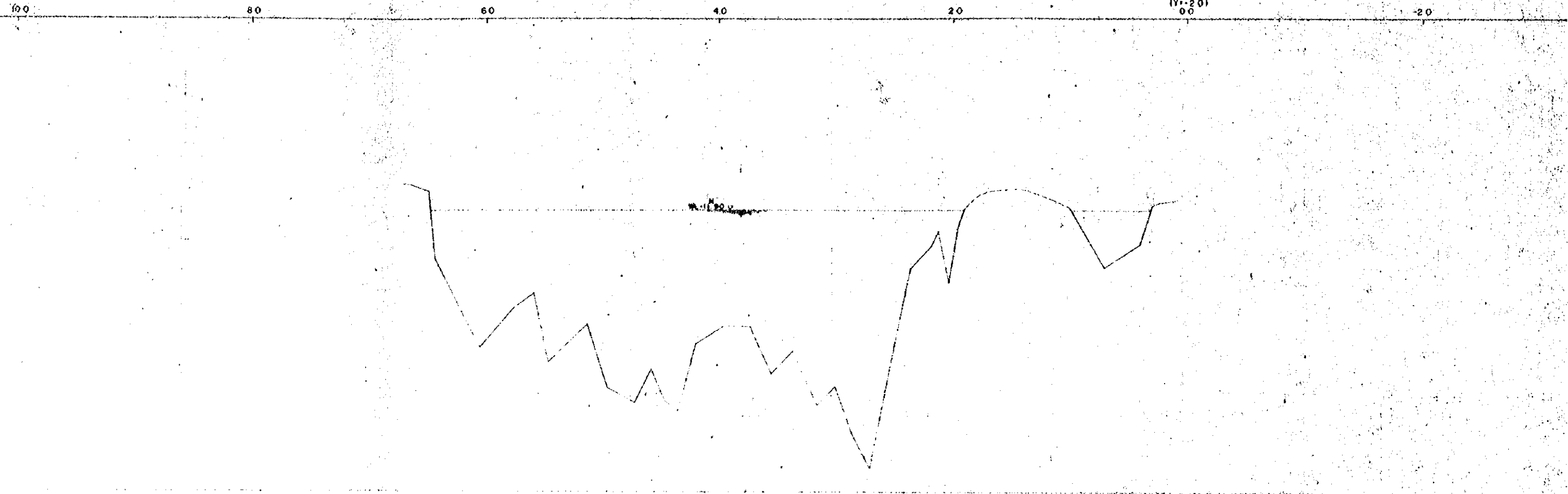


PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H · 1 / 20'000 V · 1 / 100	APPROVED BY	
SHEET NO.	S - 15	CHECKED BY	
SURVEYED ON	18 - 26 - SEP. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 16

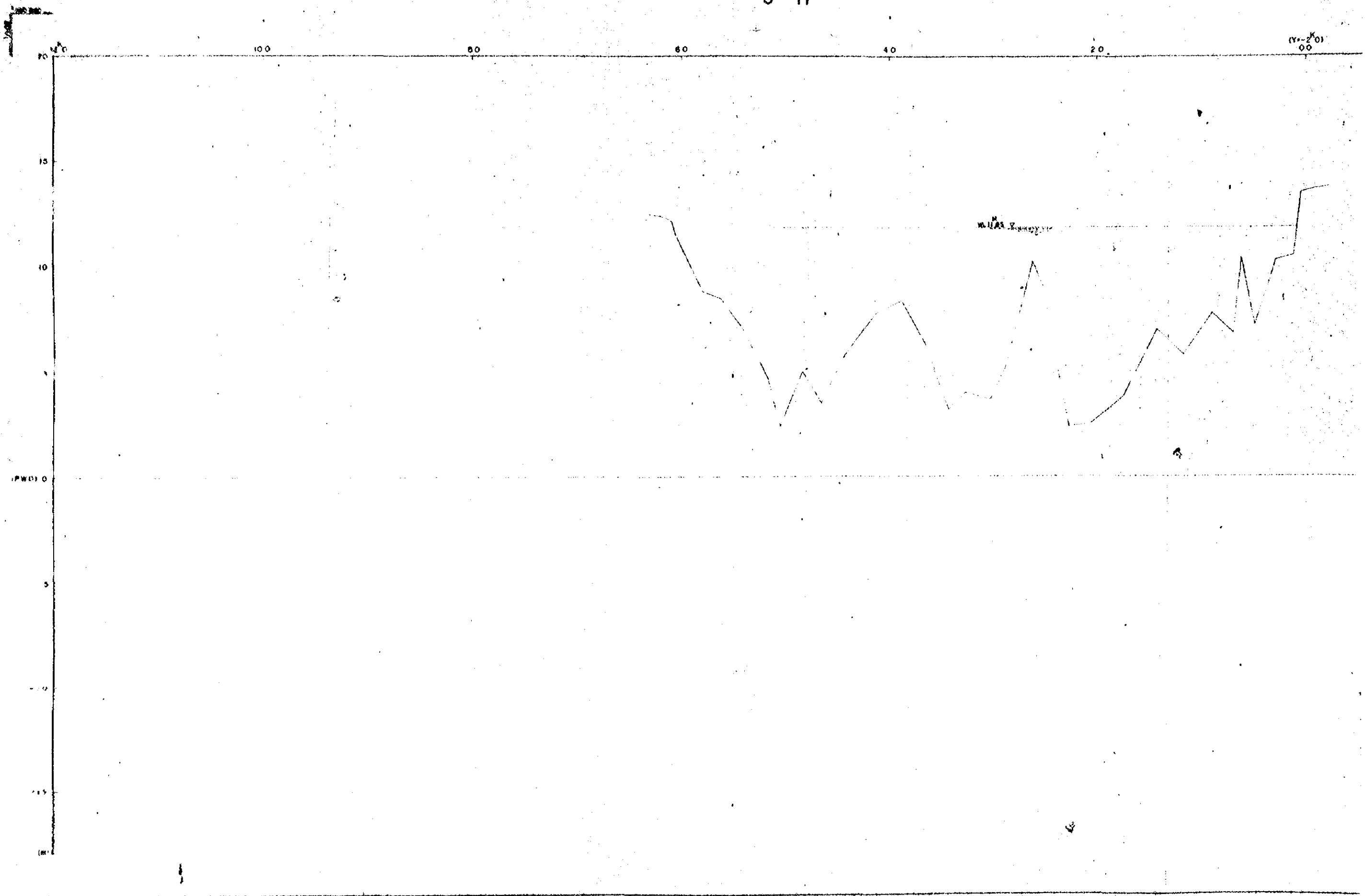


S - 16



PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 16	CHECKED BY	
SURVEYED ON	18 - 25 - SEP - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 17



S - 17

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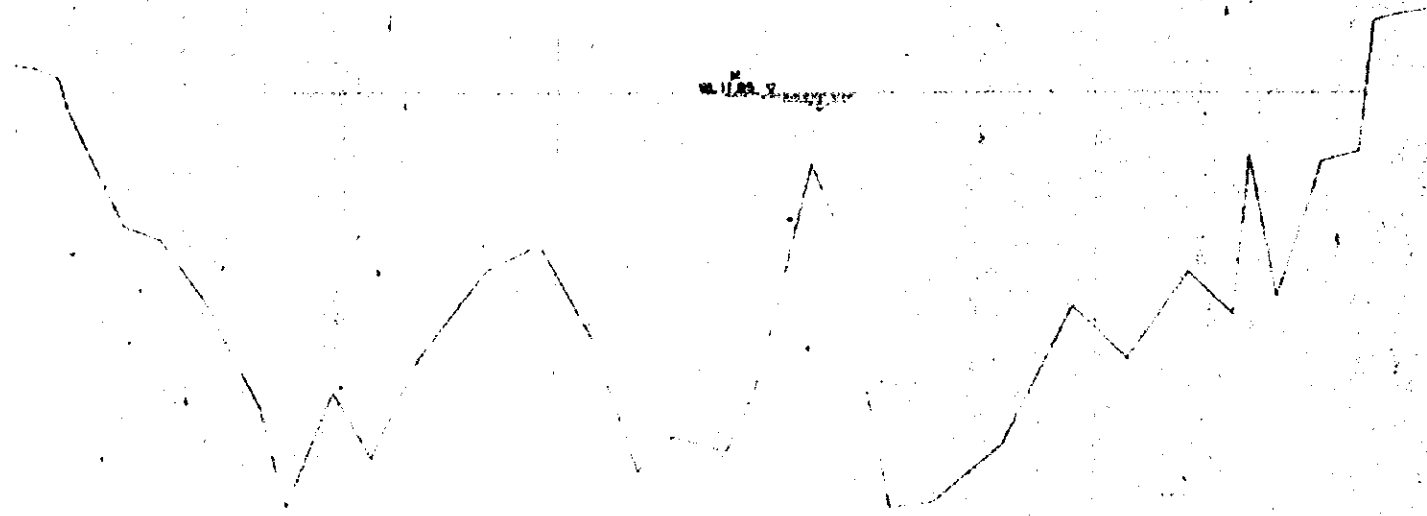
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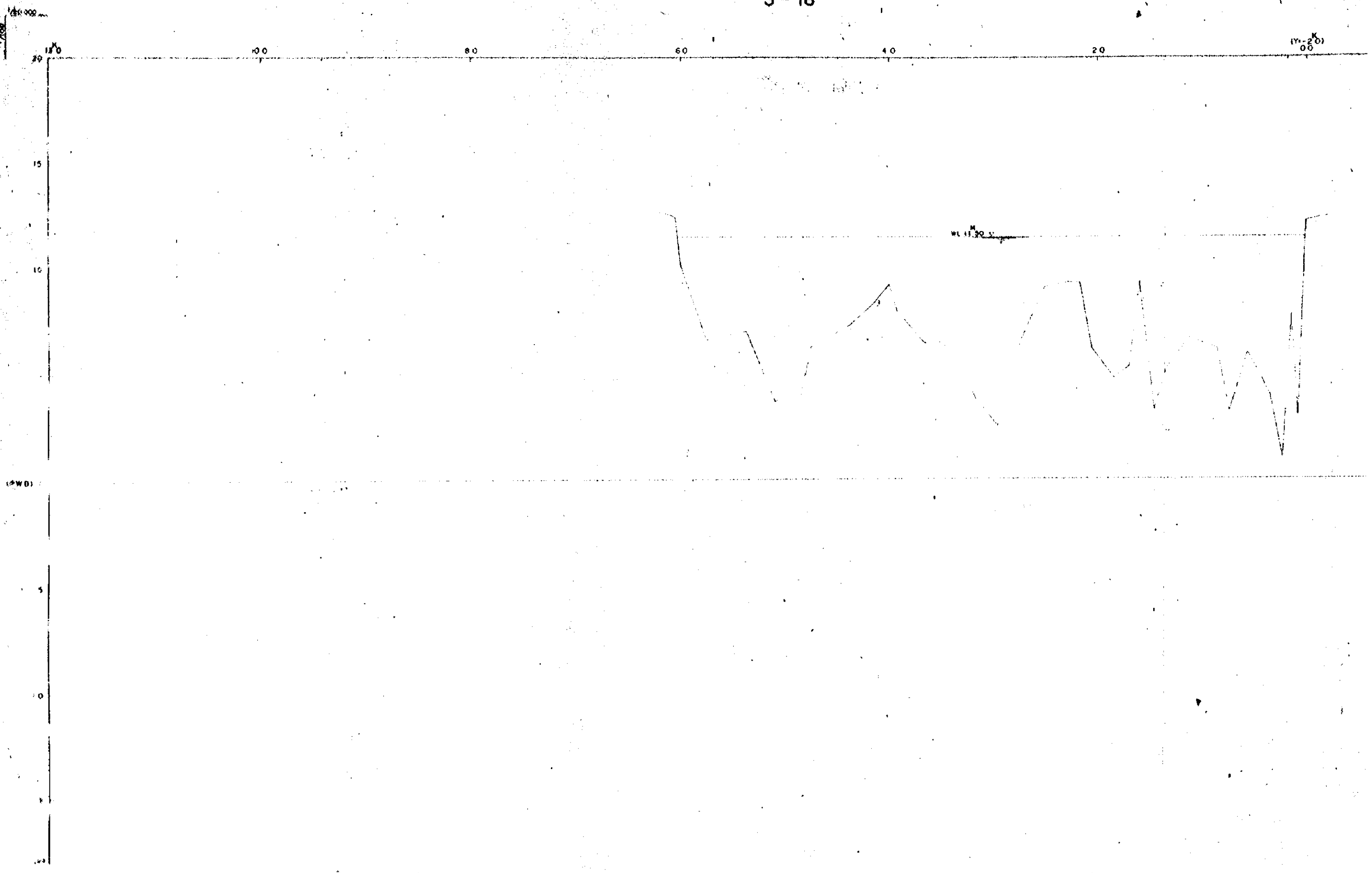
(4-20)
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PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H • 1 / 20000 V • 1 / 100	APPROVED BY	
SHEET NO.	8 - 17	CHECKED BY	
SURVEYED ON	18 - 28 - SEP. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 18



S - 18

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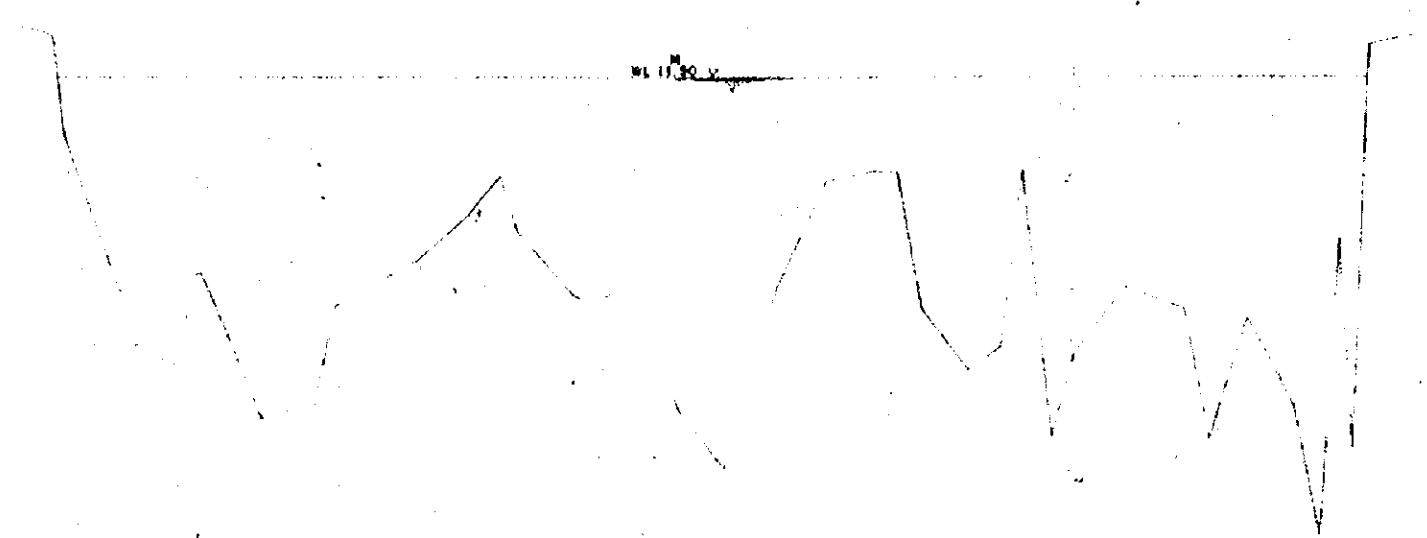
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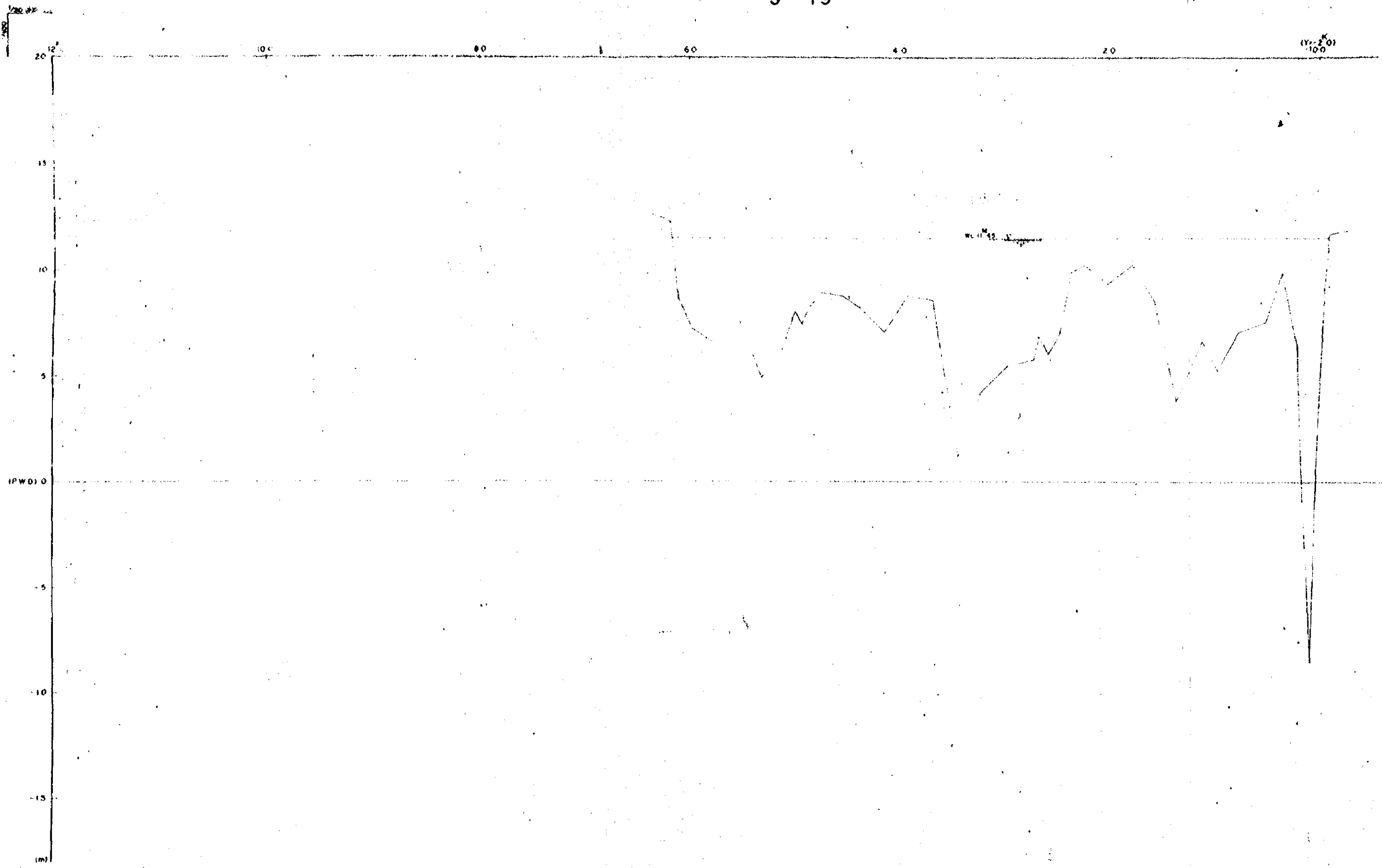
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PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H - 1 / 20 000 V - 1 / 100	APPROVED BY	
SHEET NO.	S - 18	CHECKED BY	
SURVEYED ON	18 - 24 - SEP. - 1978	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S - 19



S - 19

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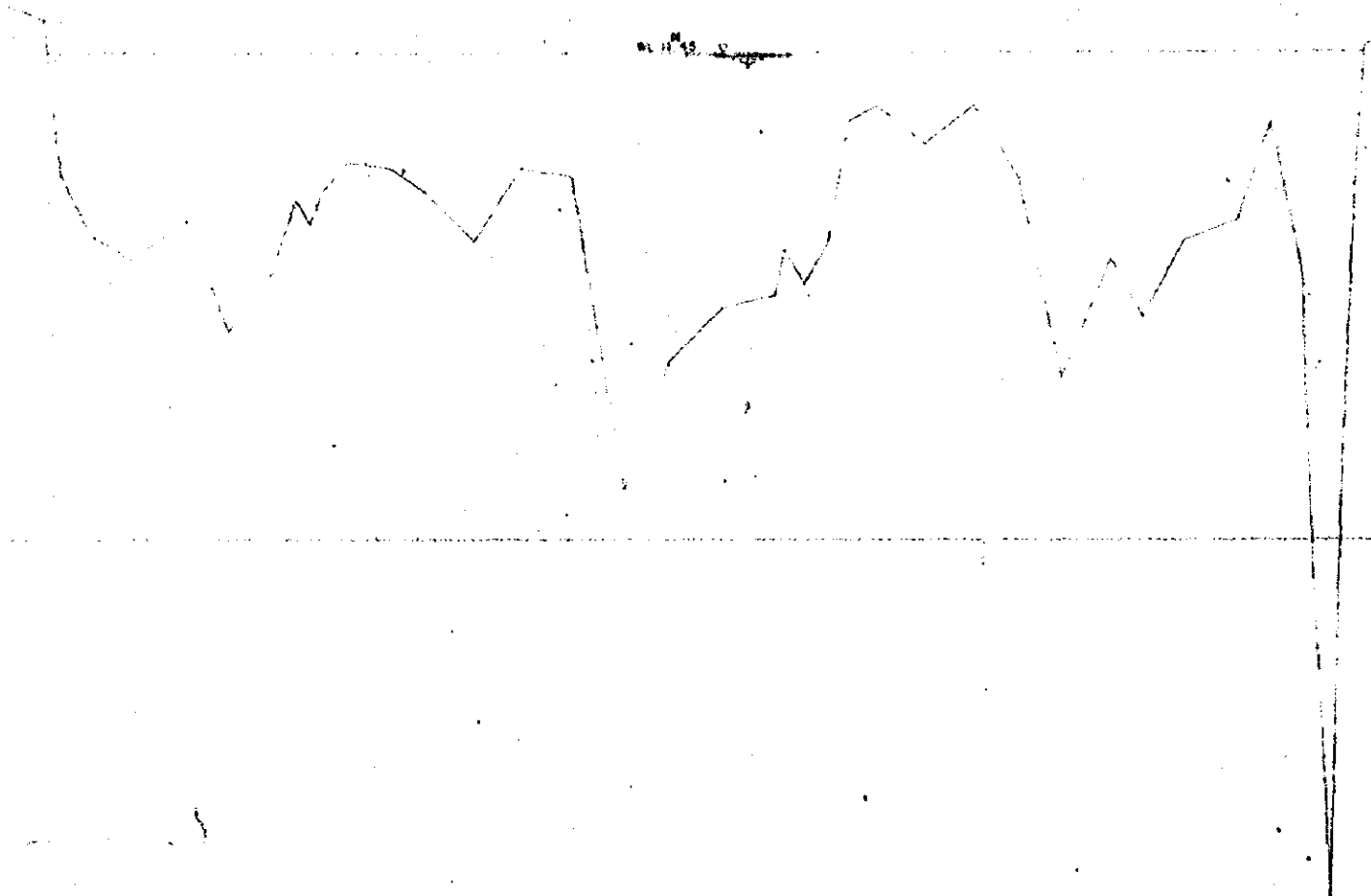
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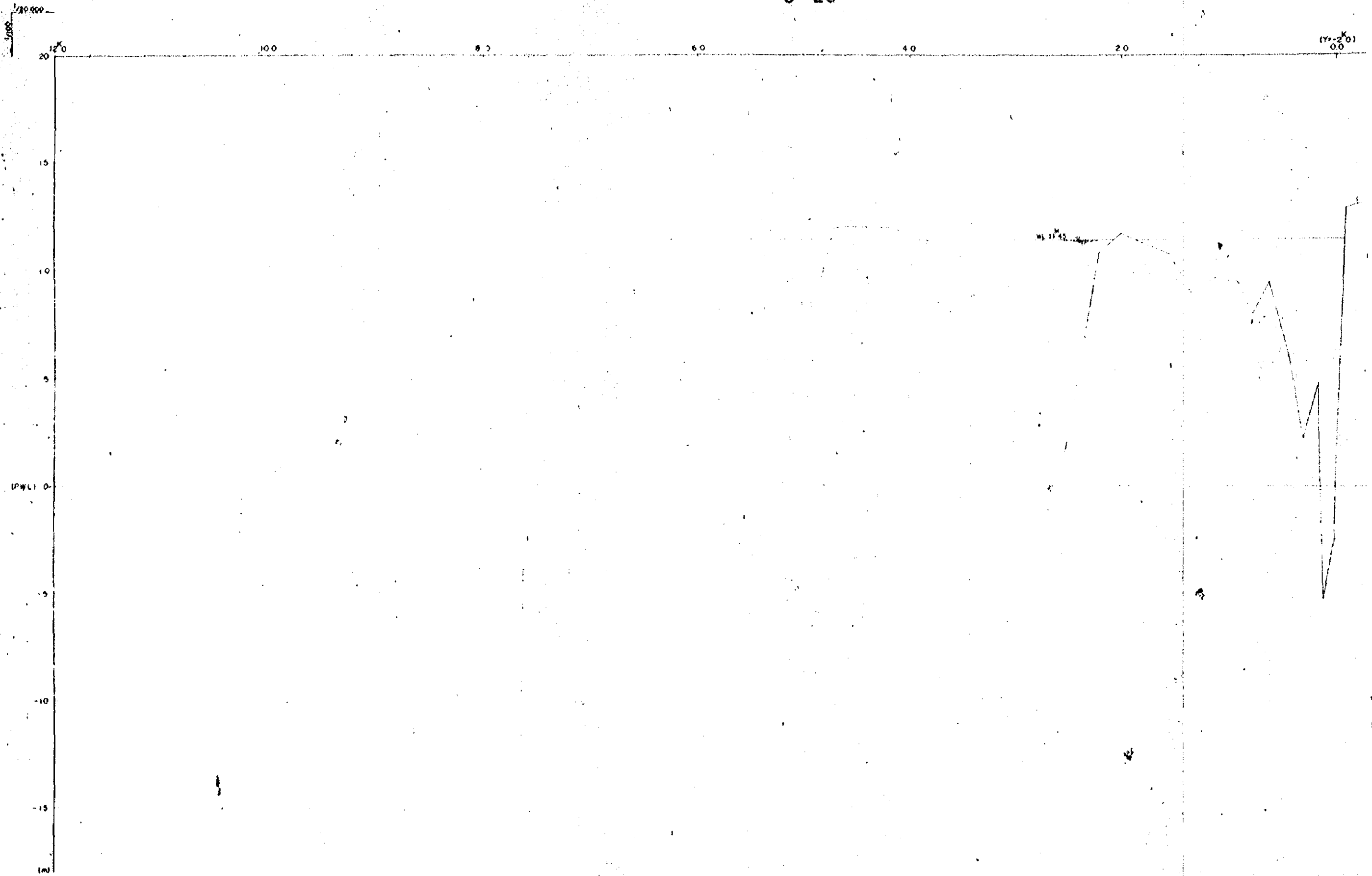
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PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 19	CHECKED BY	
SURVEYED ON	18 - 26 - SEP. - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

S-20



S-20

100

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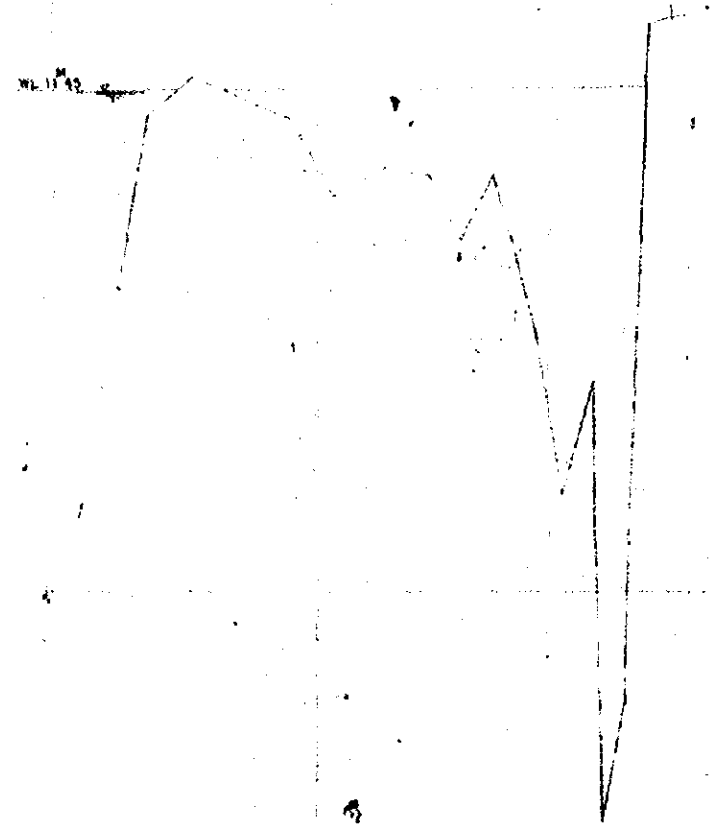
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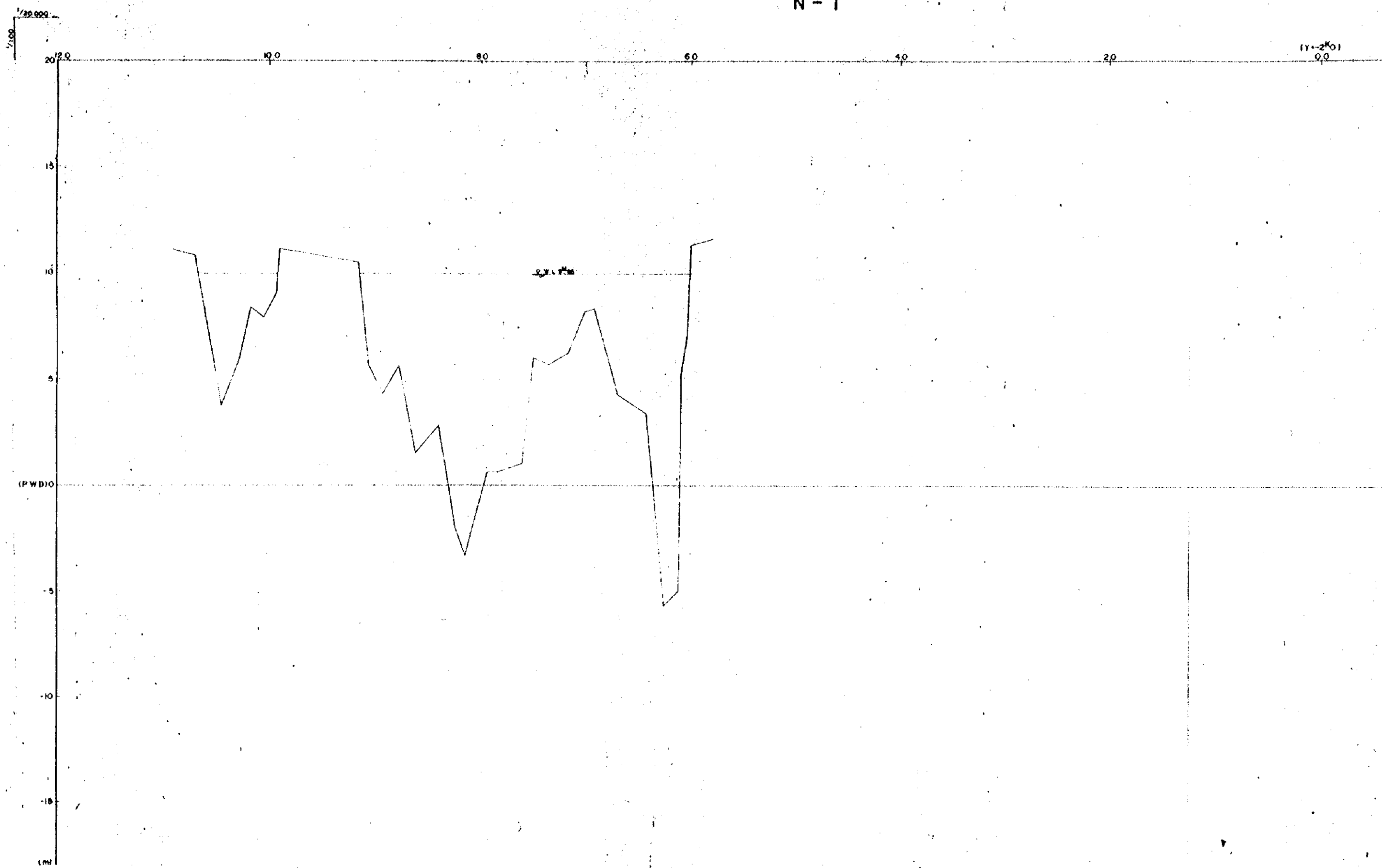
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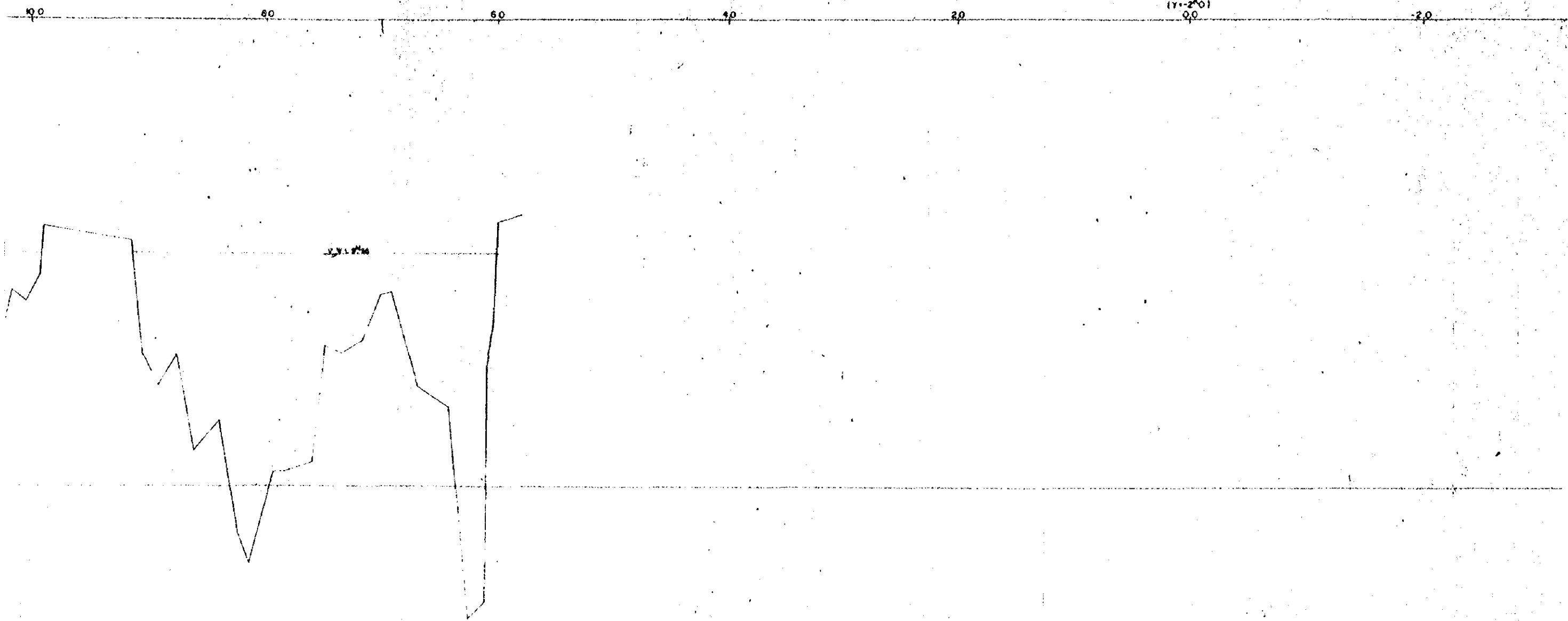


PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND SIRAJGANJ PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO.	S - 20	CHECKED BY	
SURVEYED ON	18 - 26 - SEP - 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-1

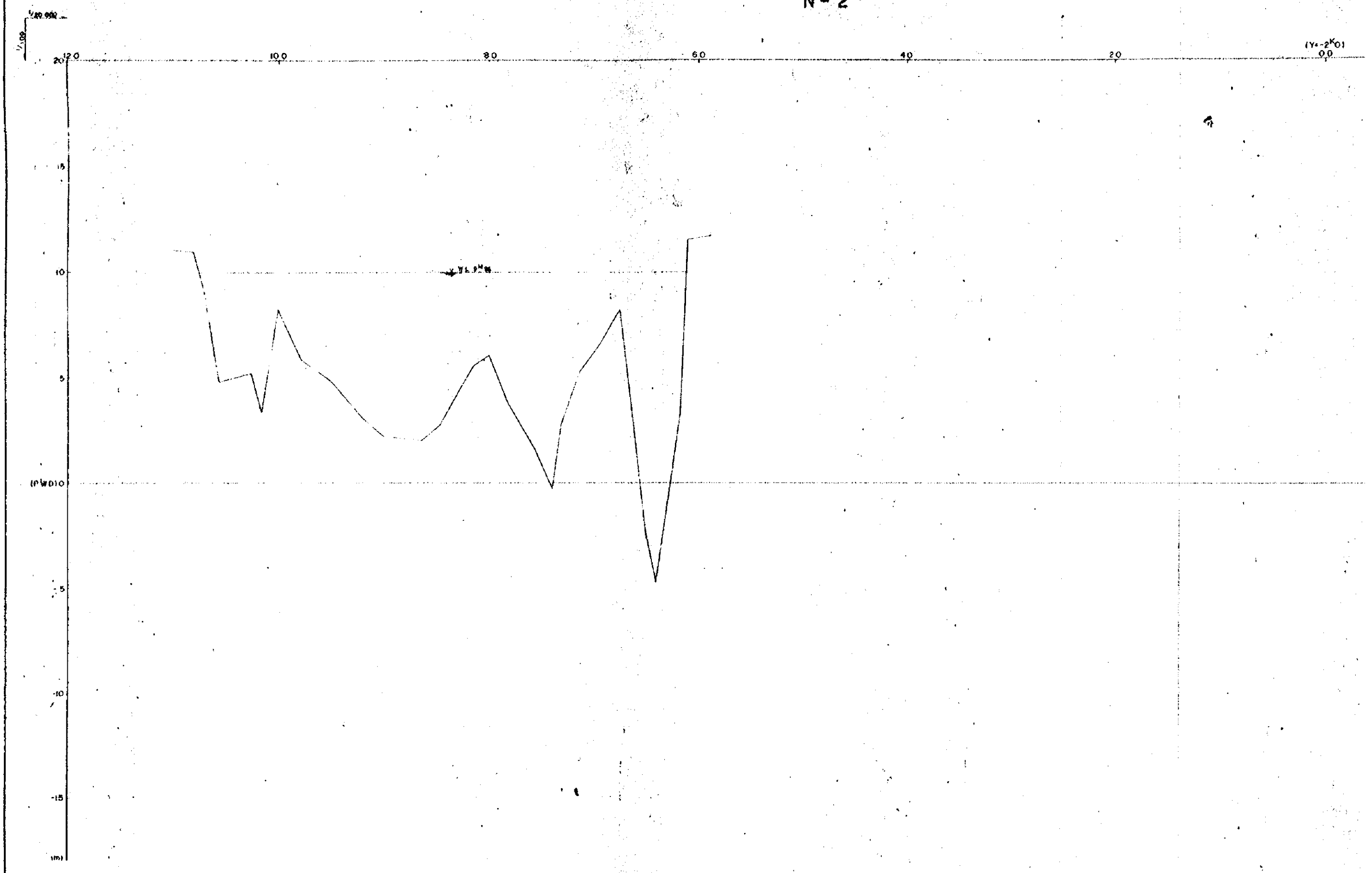


N - 1



PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	NAGARBARI	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20000 V = 1/100	APPROVED BY
SHEET NO	N - 1	CHECKED BY
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

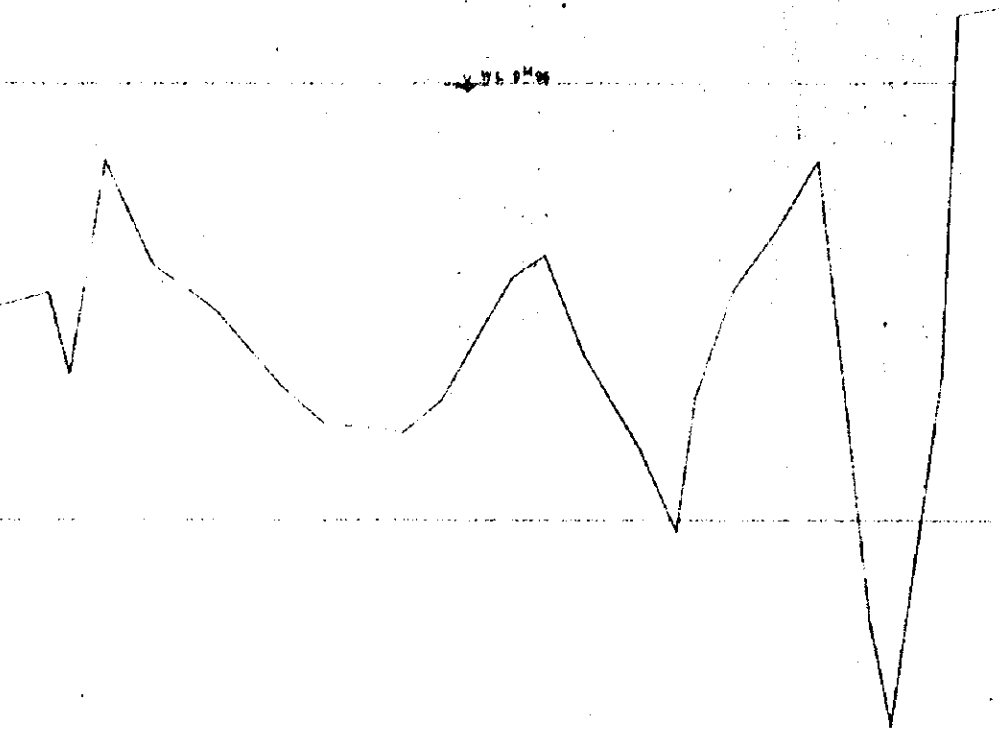
N-2



N-2

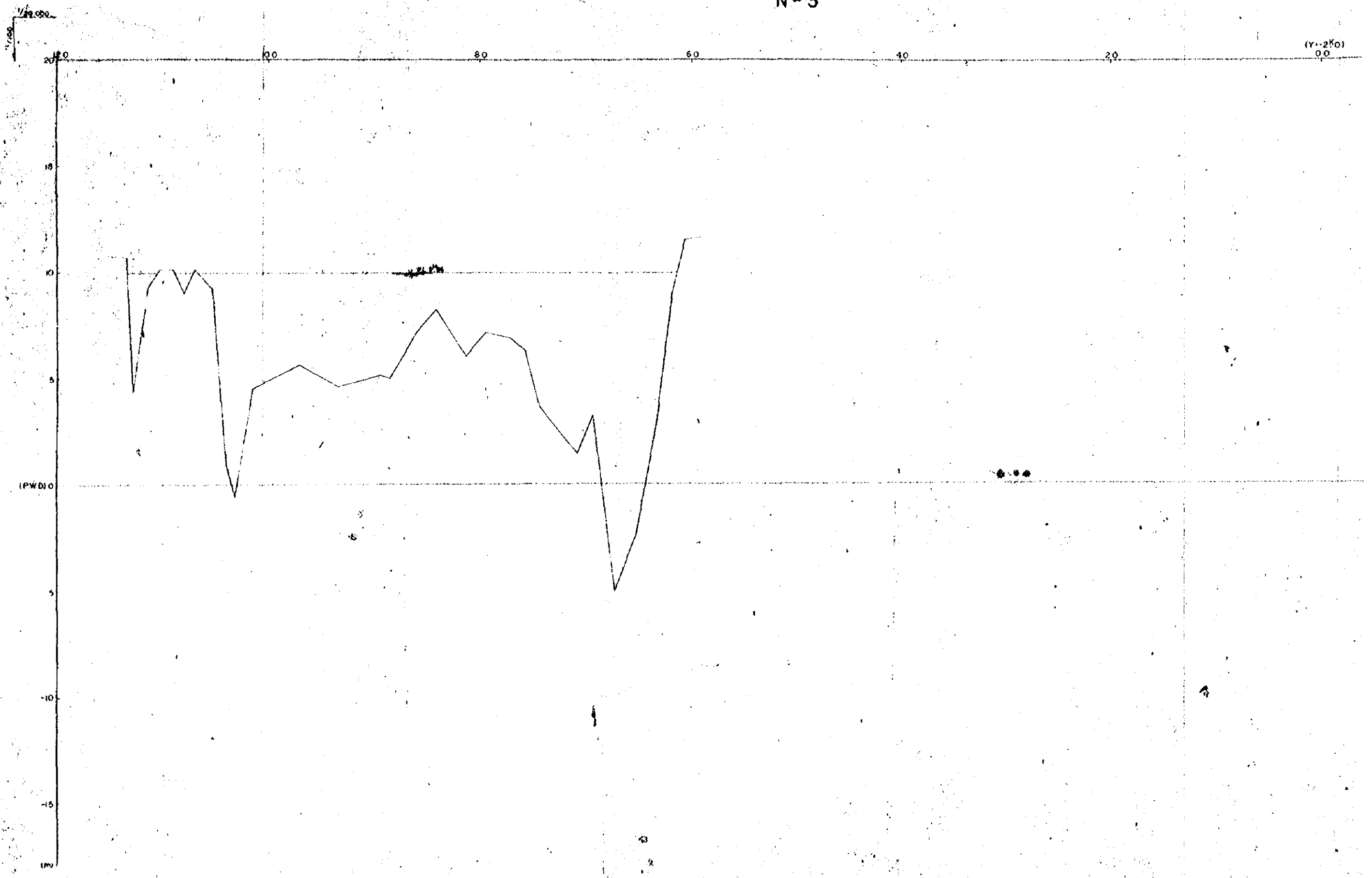
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75.97m



PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20000 V = 1/100	APPROVED BY	
SHEET NO	N-2	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-3



N-3

100

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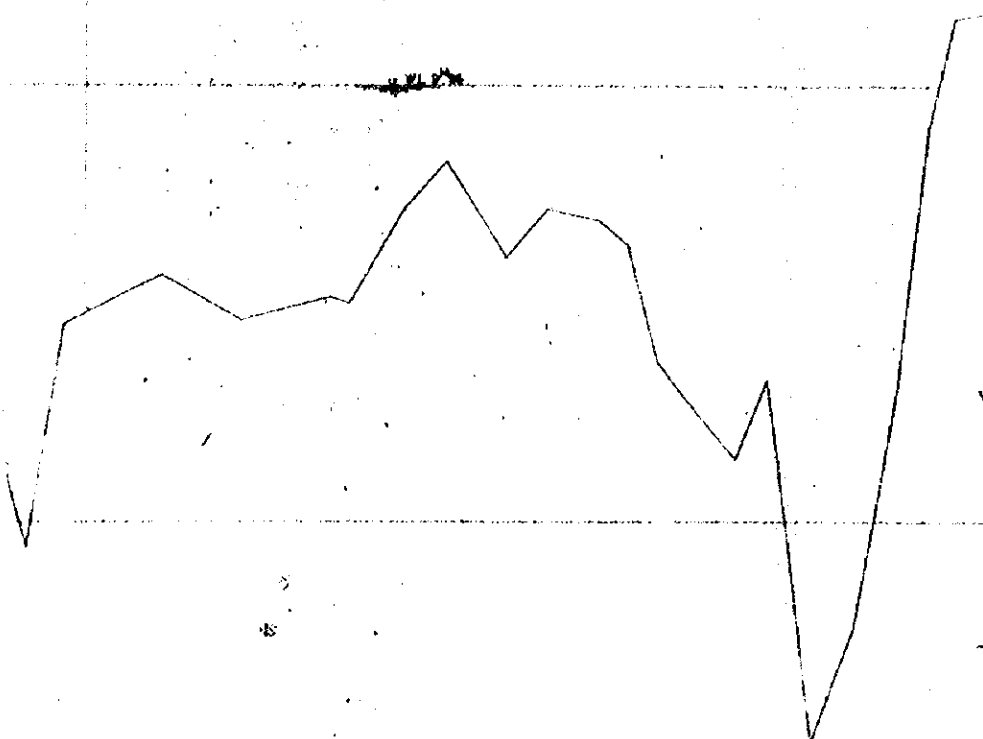
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(Y+2'00)

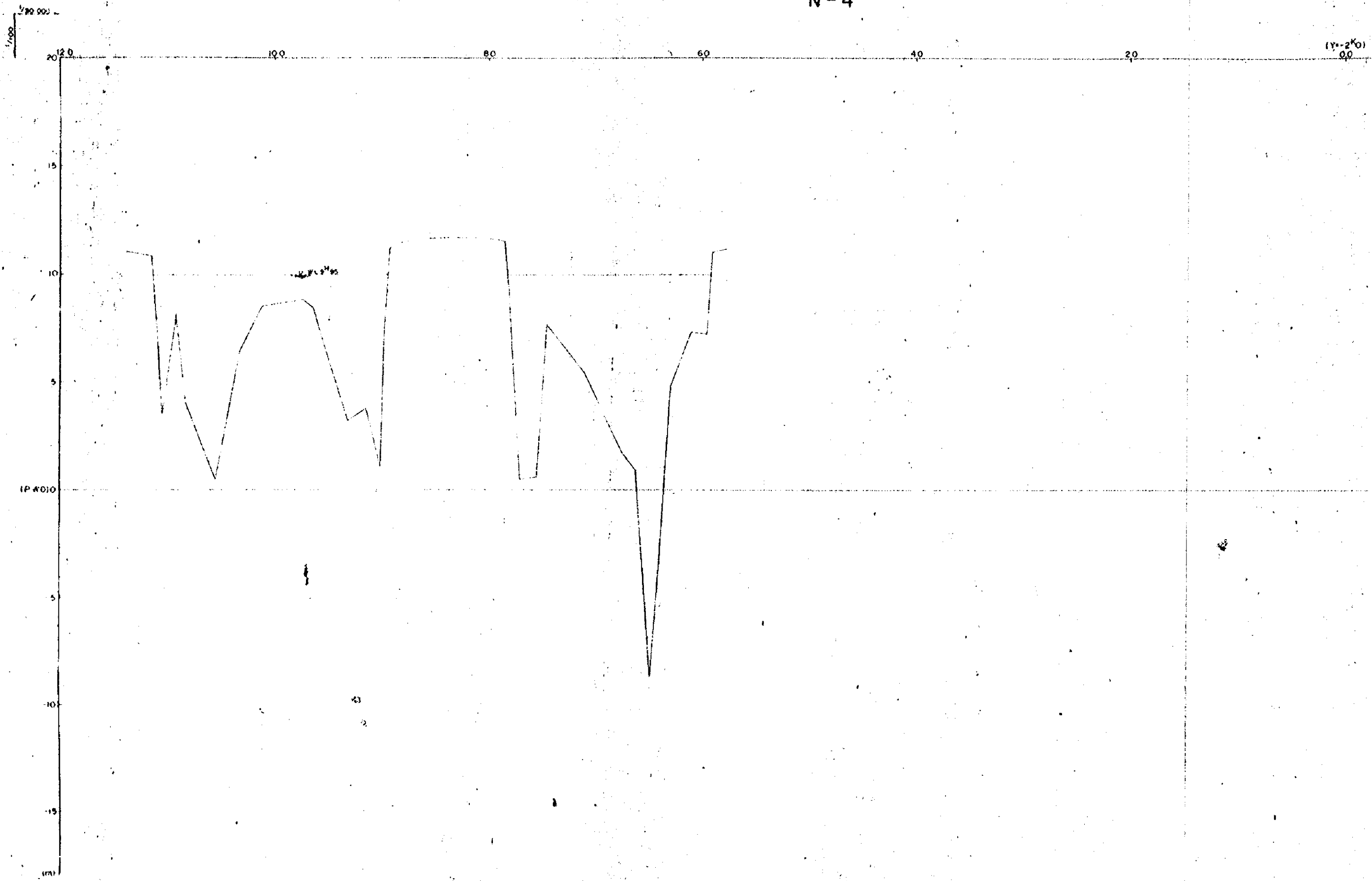
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PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20,000 V = 1 / 100	APPROVED BY	
SHEET NO.	N - 3	CHECKED BY	
SURVEYED ON	27-SEP-5-OC-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-4



N-4

100

80

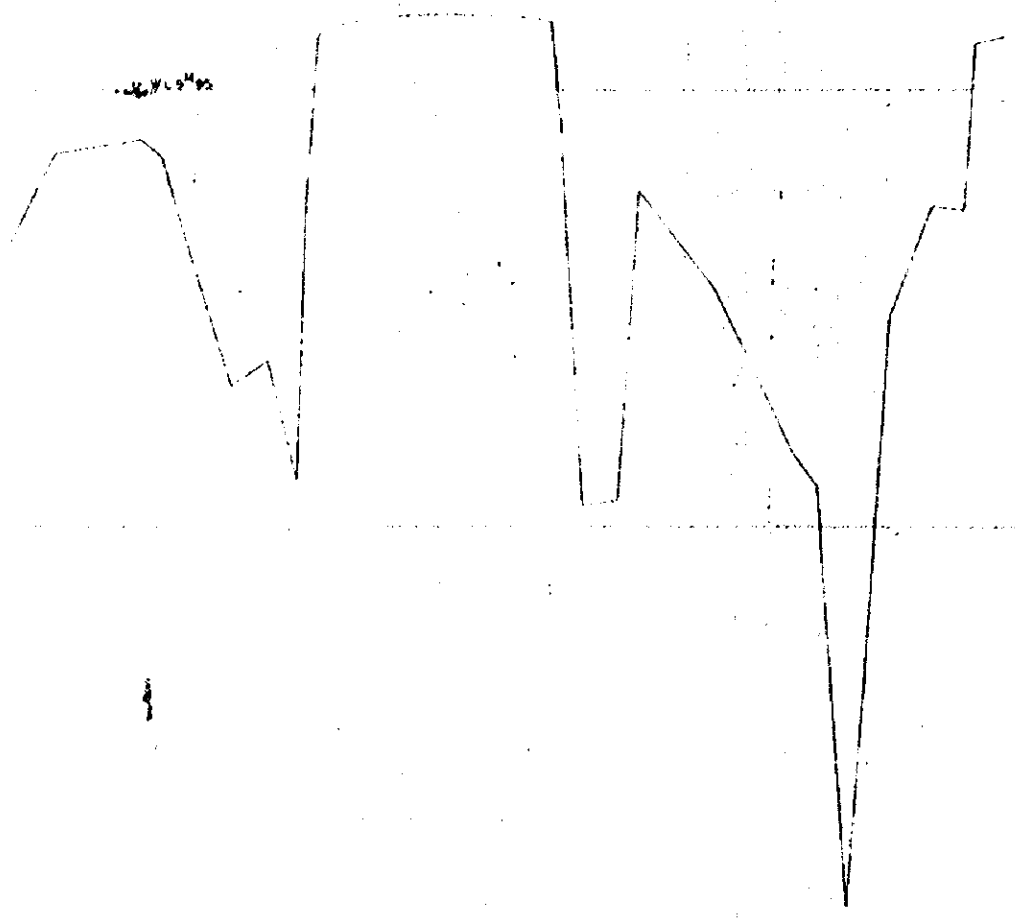
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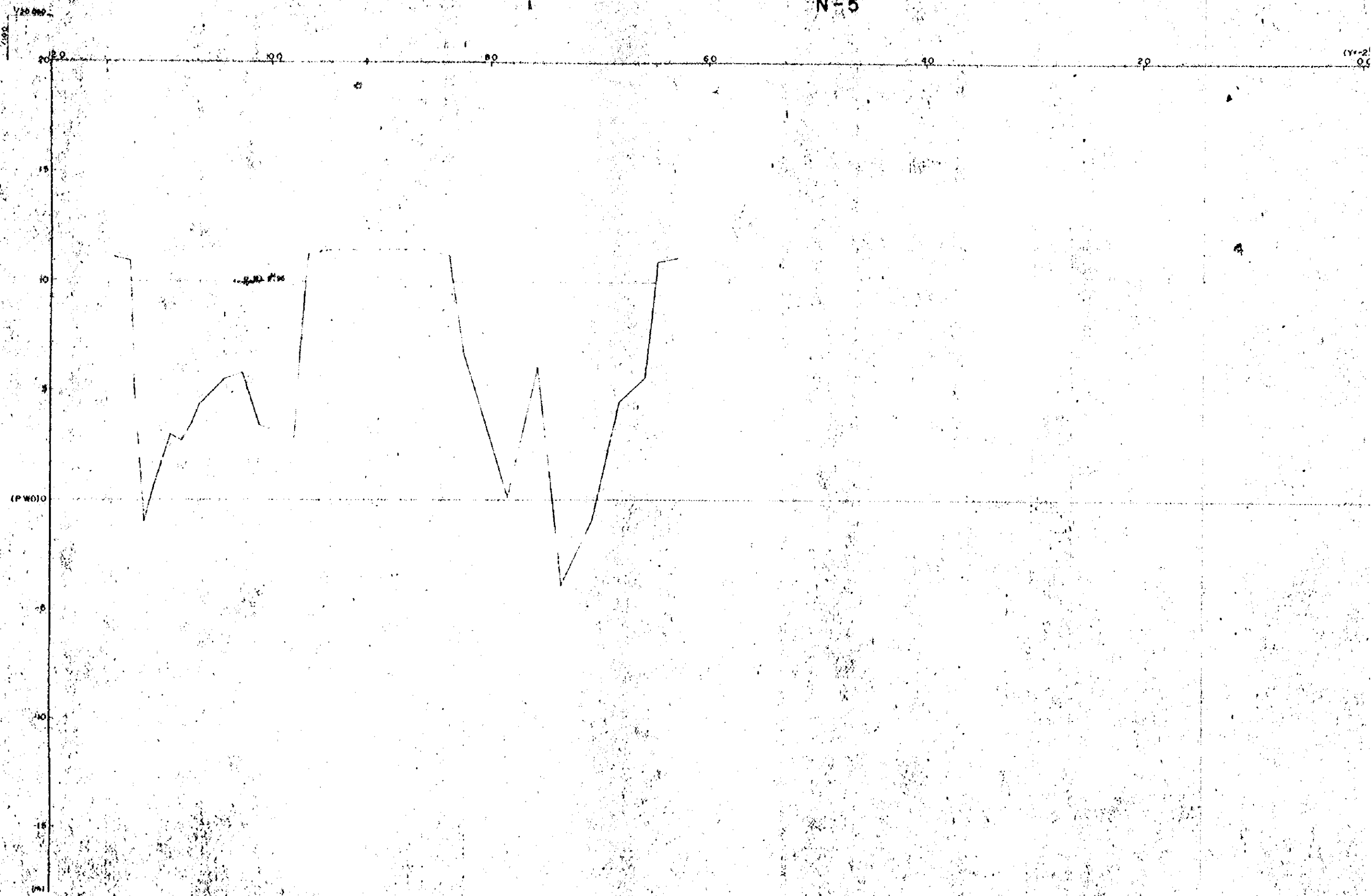
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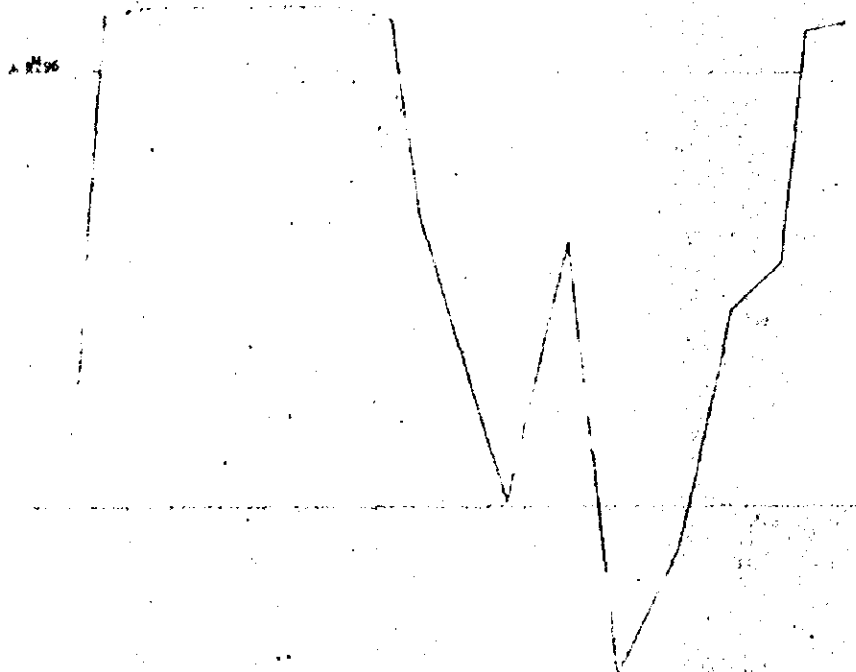
PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	NAGARBARI	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20,000 V = 1/100	APPROVED BY
SHEET NO	N-4	CHECKED BY
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

N-5



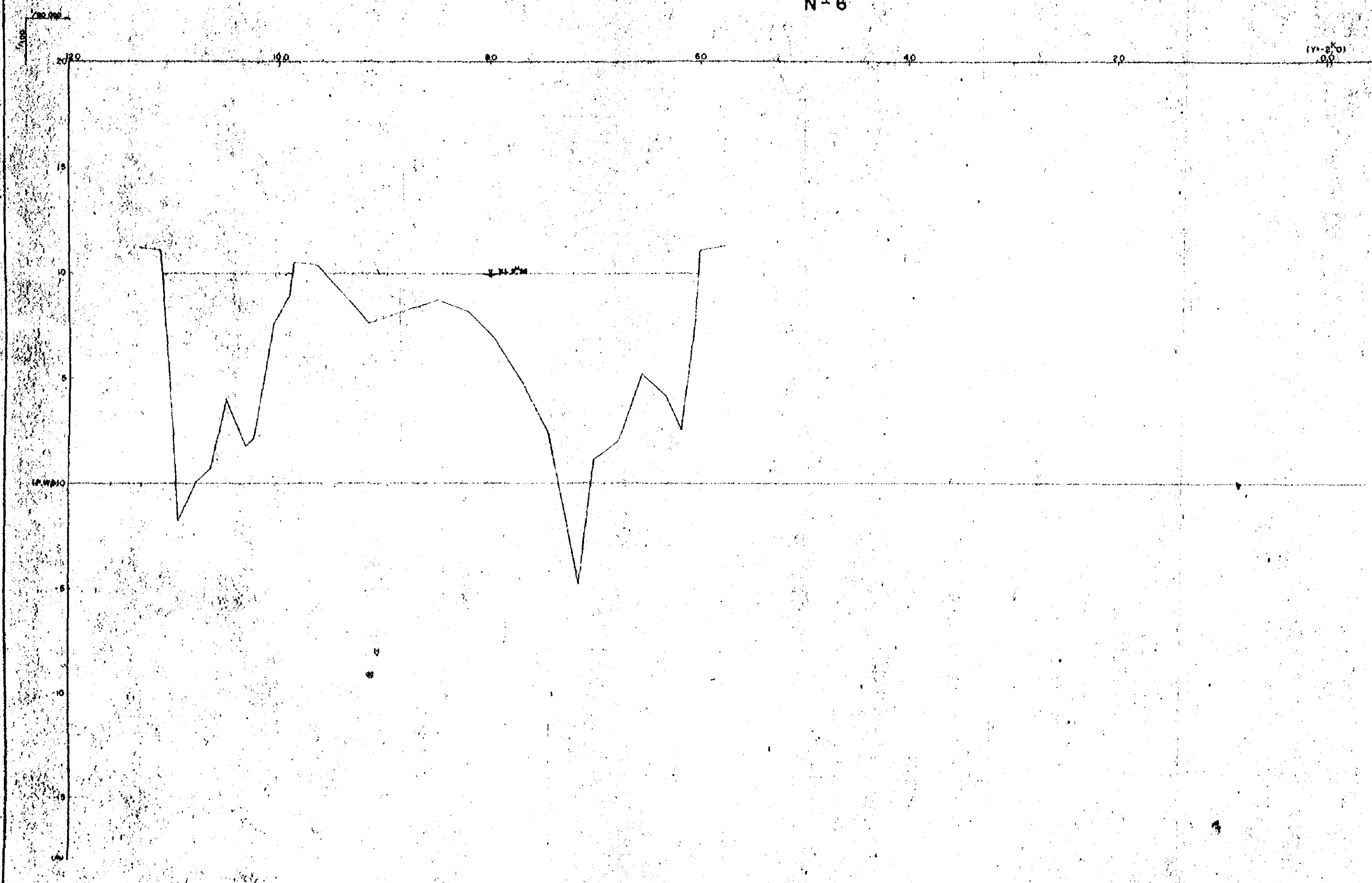
N-5

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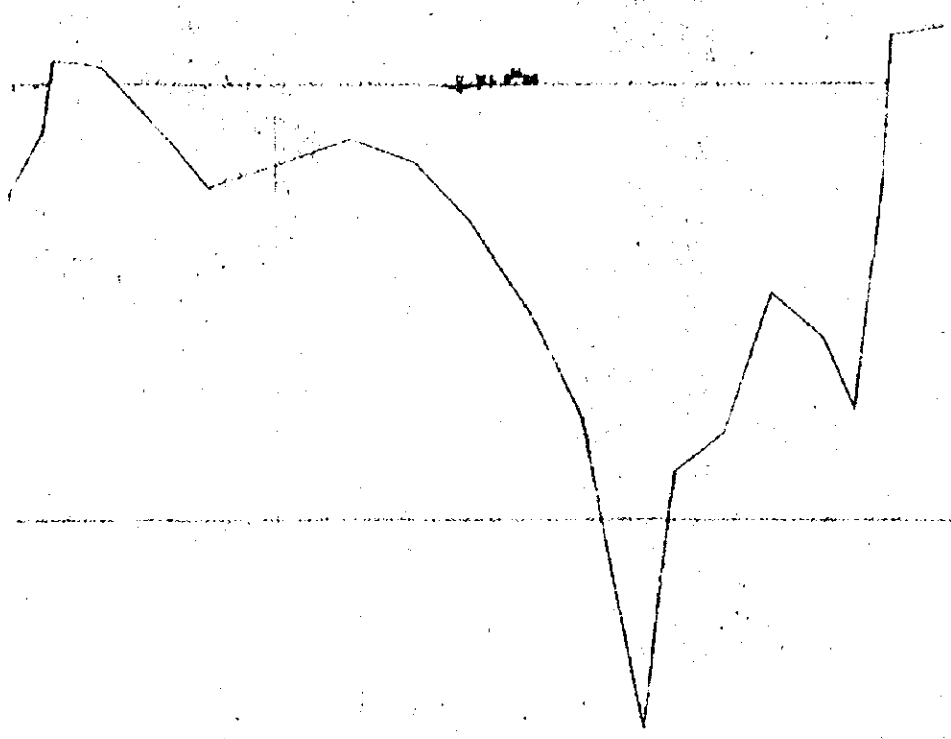
PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20000 V = 1/100	APPROVED BY	
SHEET NO	N-5	CHECKED BY	
SURVEYED ON	27-SEP-6-OC-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-6



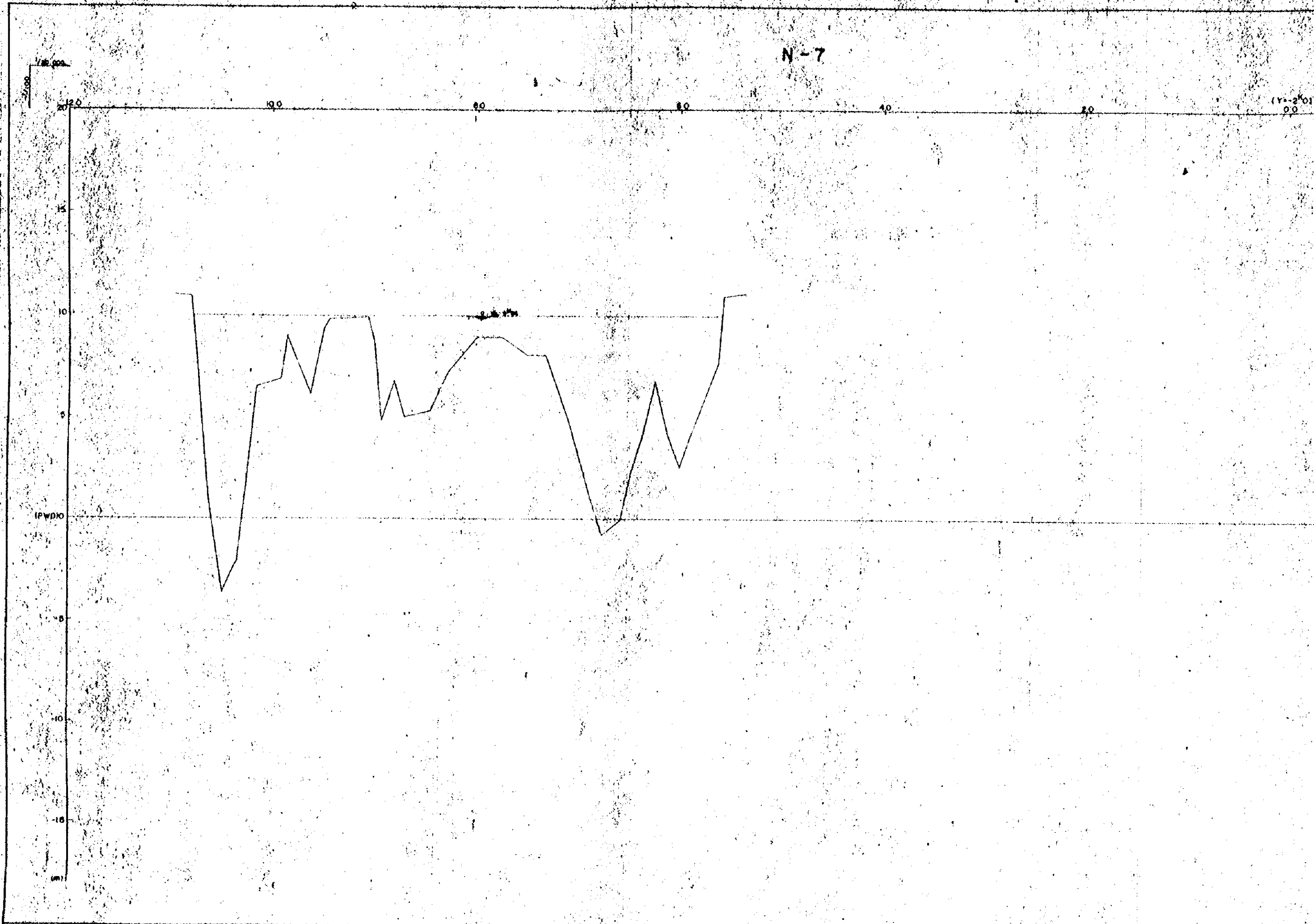
N-6

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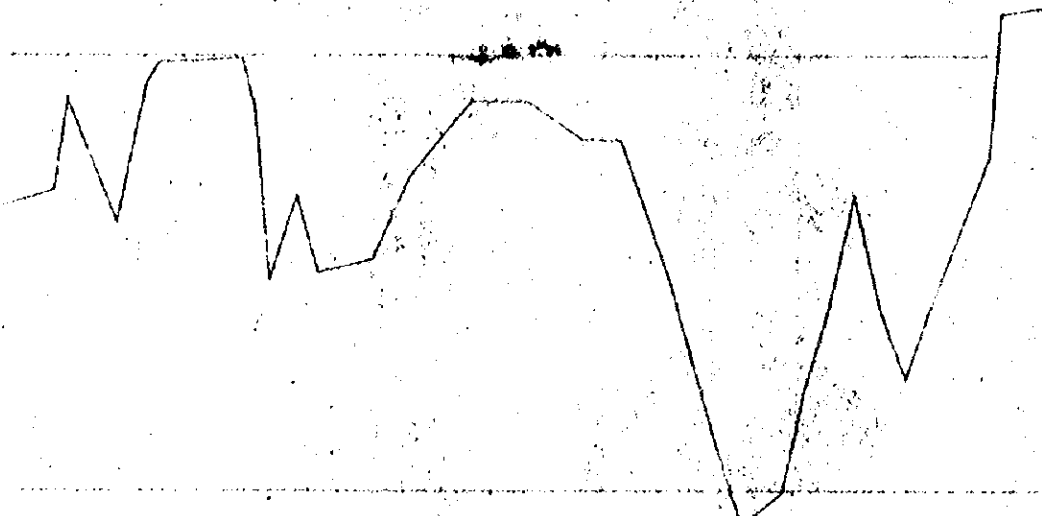
PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE NAGARBARI	
TITLE LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE H = 1/20 000 V = 1/100	APPROVED BY
SHEET NO. N-6	CHECKED BY
SURVEYED ON 27-SEP-6-OCT-1978	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

N-7



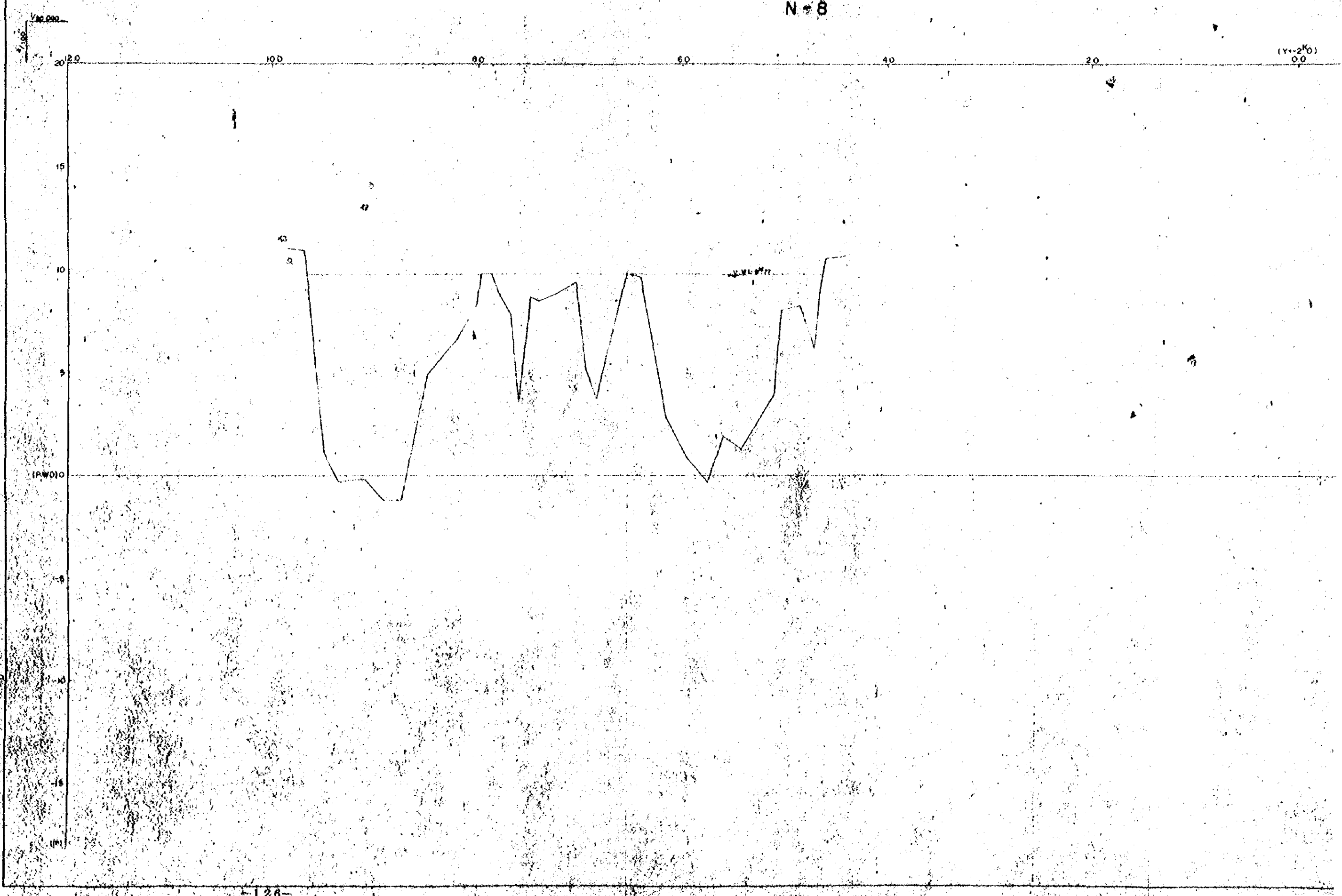
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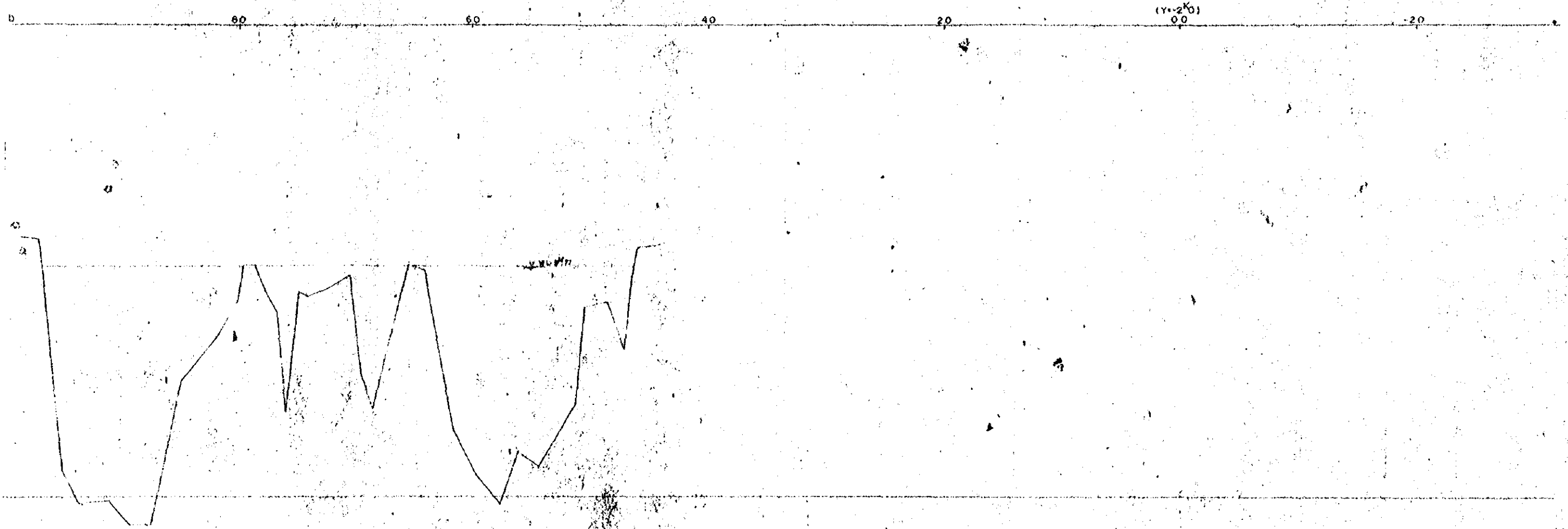


PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20,000 V = 1 / 100	APPROVED BY	
SHEET NO	N - 7	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-8

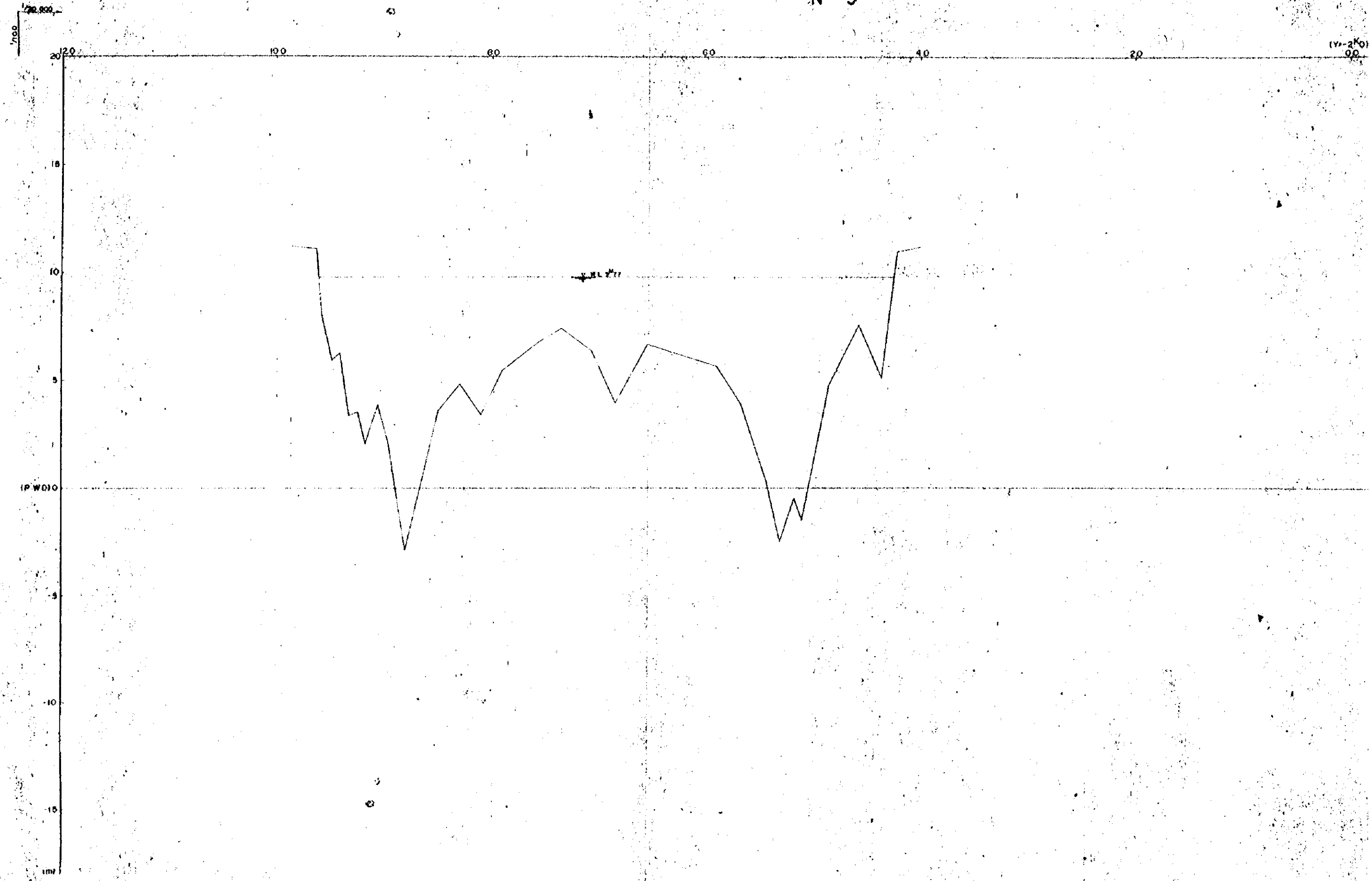


N-8



PROJECT: BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE: NAGARBARI	
TITLE: LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE: H 1/20000 V 1/100	APPROVED BY
SHEET NO: N-8	CHECKED BY
SURVEYED ON: 27-SEP-8-001-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

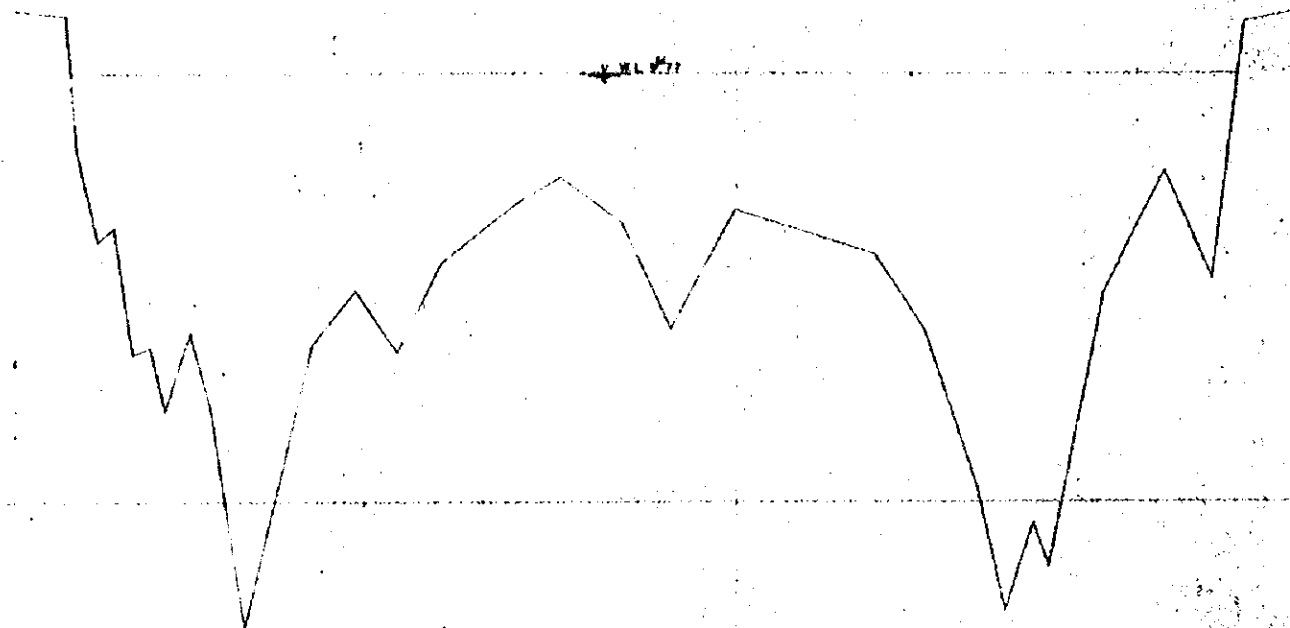
N-9



N-9

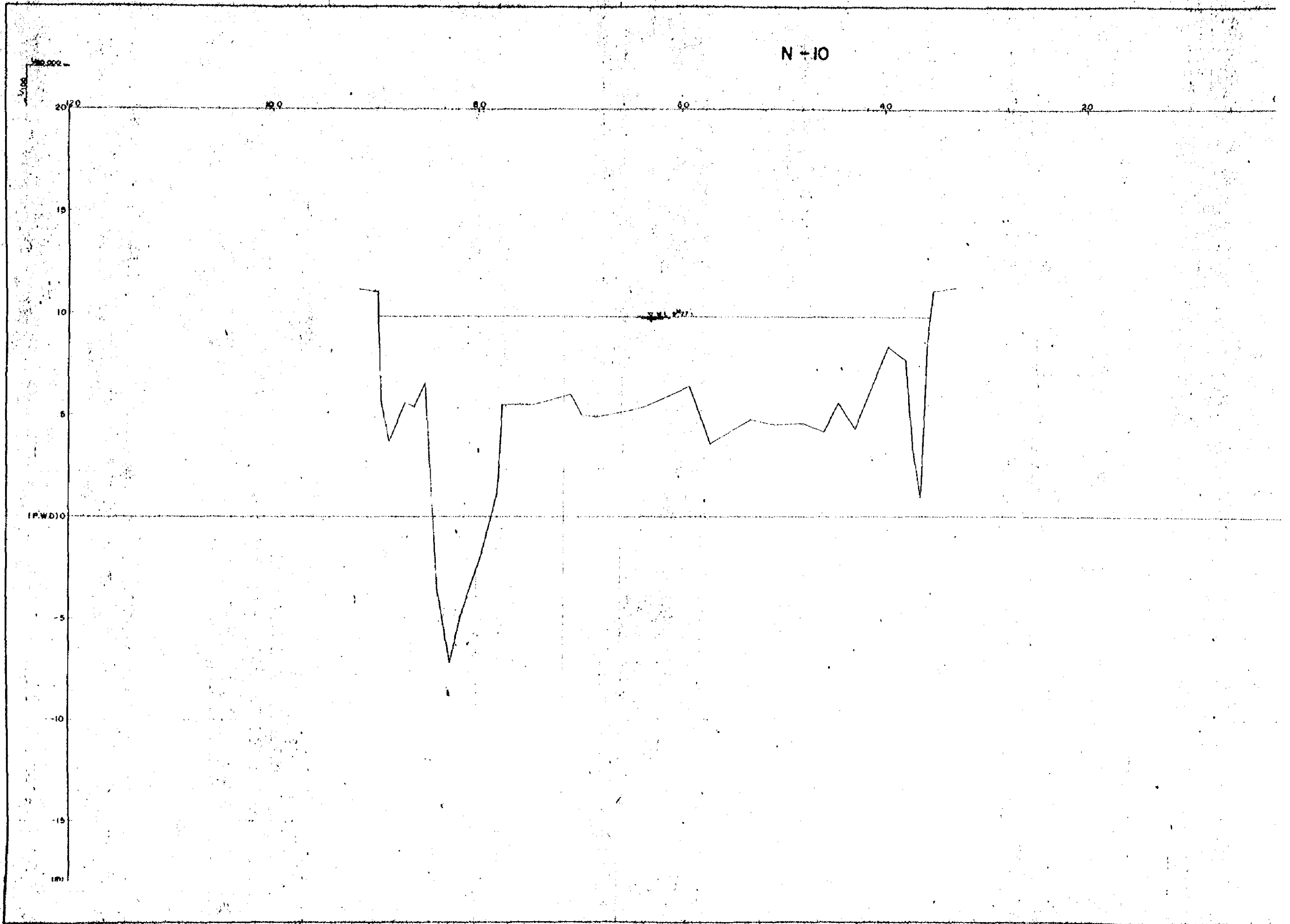
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(1:200)
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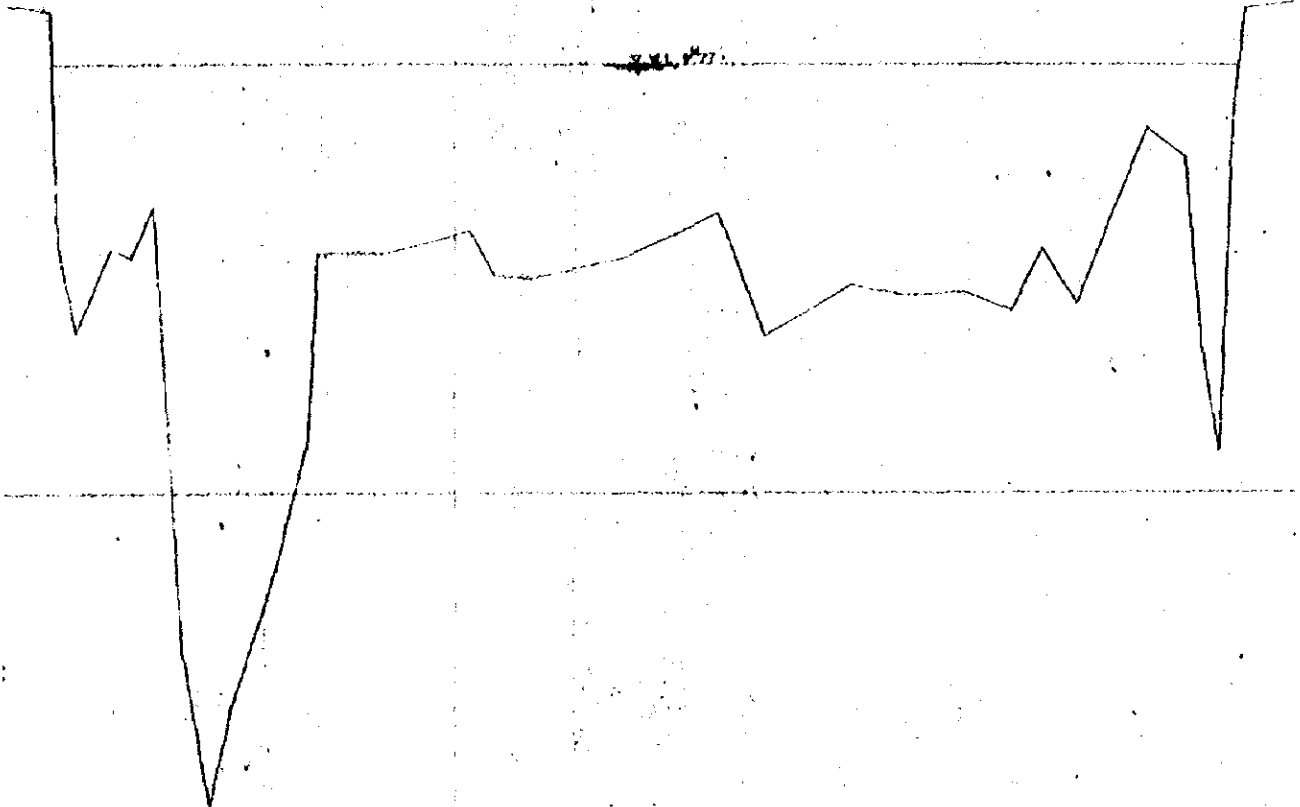
PROJECT. BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE. NAGARBARI	
TITLE. LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE H = 1/20,000 V = 1/100	APPROVED BY
SHEET NO. N-9	CHECKED BY
SURVEYED ON 27-SEP-5-OCT-57	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN	

N + 10



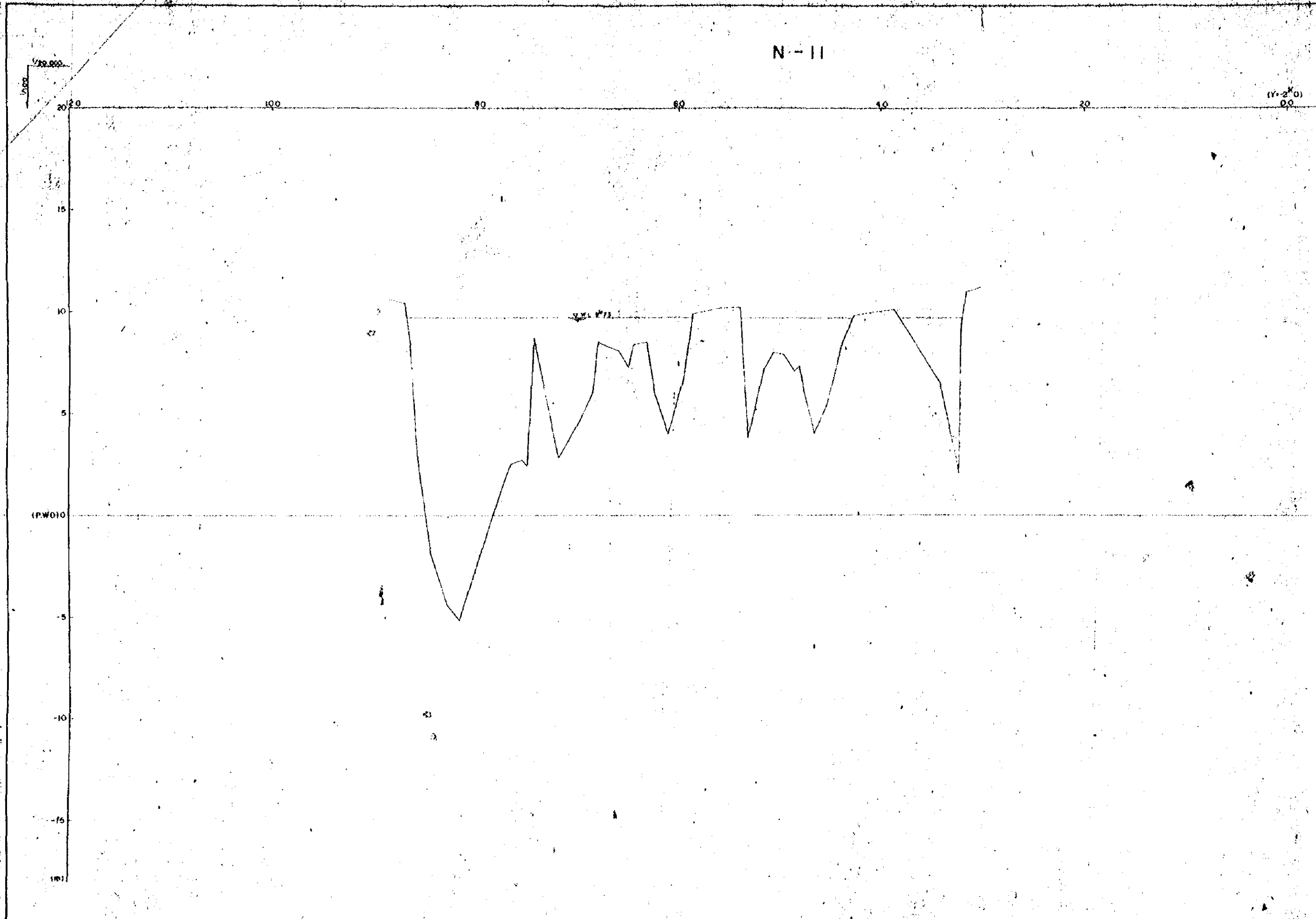
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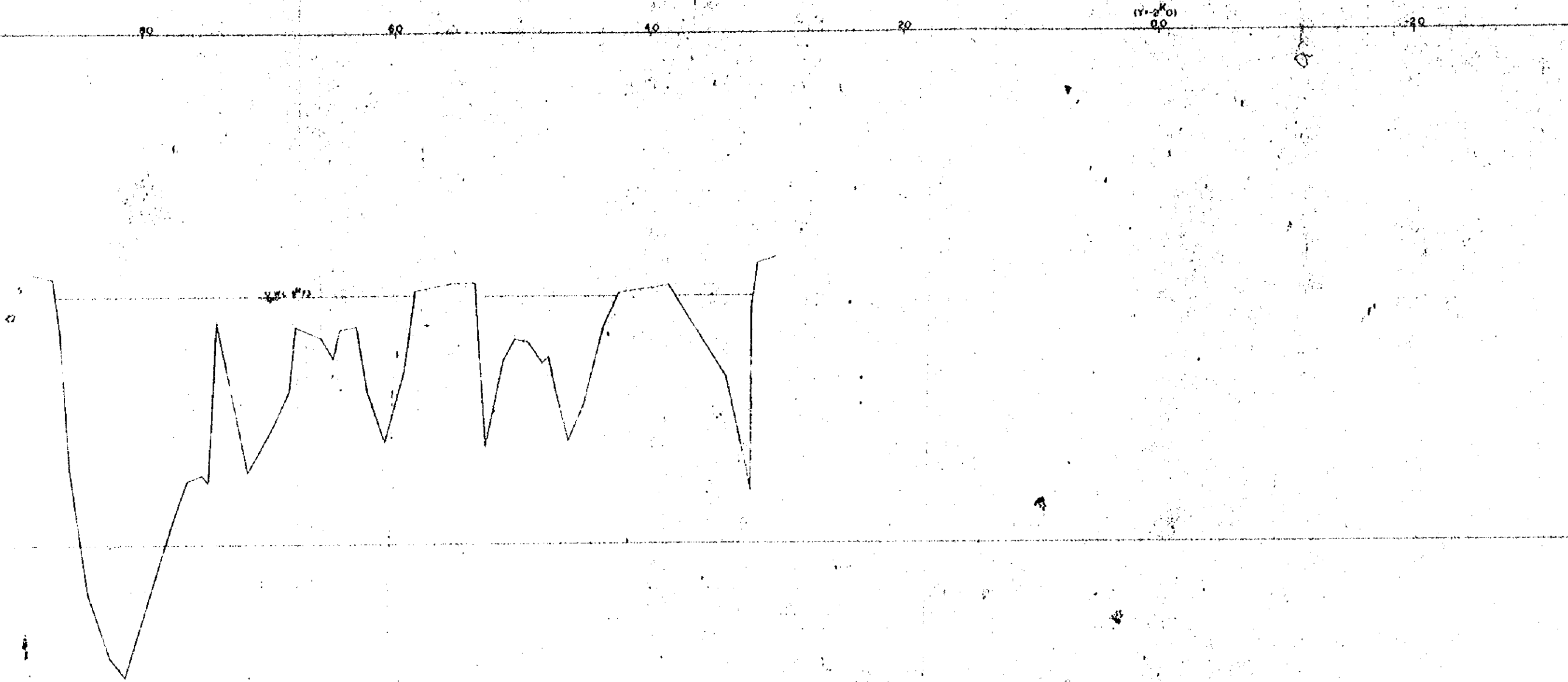


PROJECT		BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT			
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20000	APPROVED BY	
	V = 1 / 100	CHECKED BY	
SHEET NO	N - 10	DRAWN BY	
SURVEYED ON	27-SEP-5-OCT-1975		
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-11

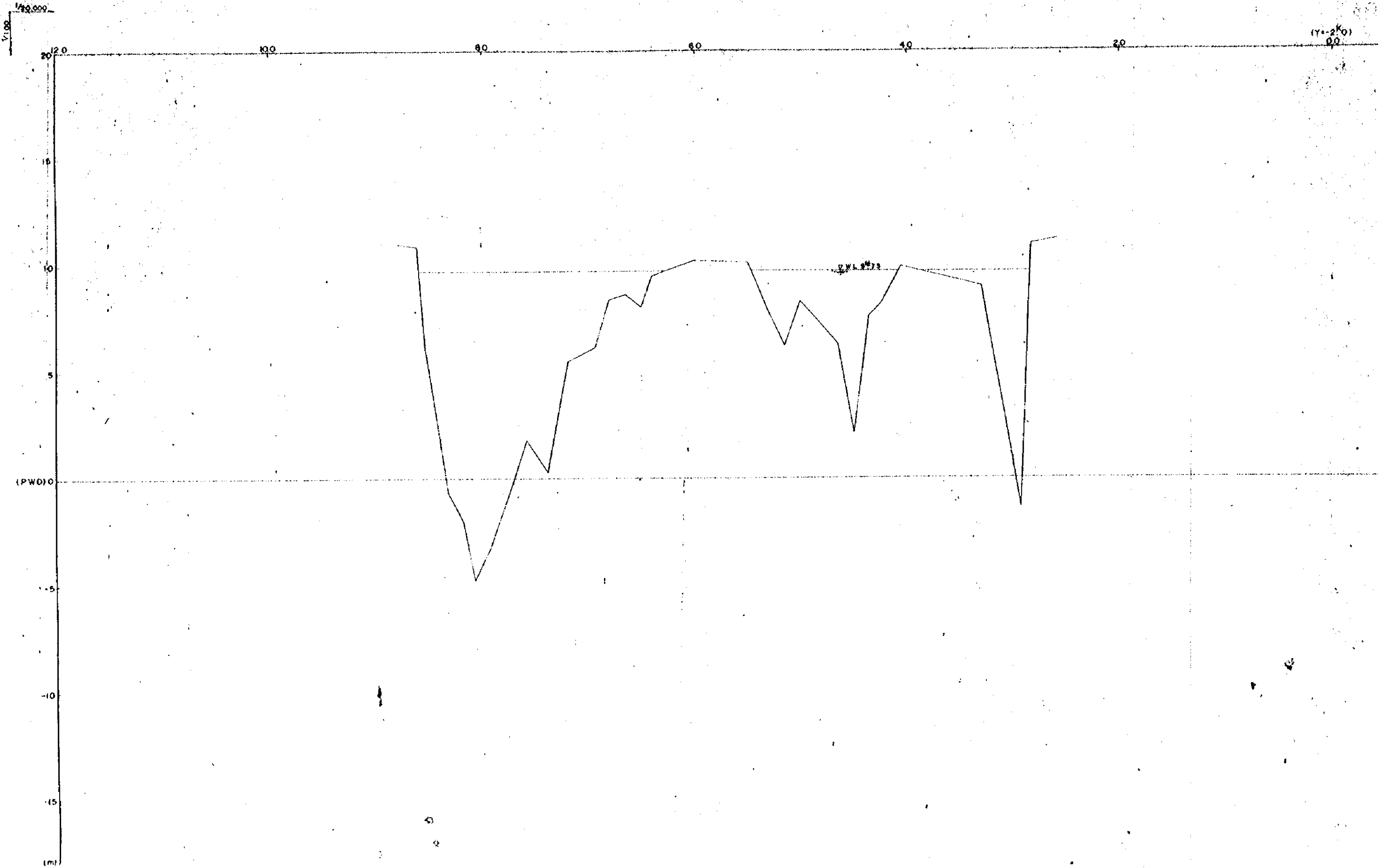


N - 11

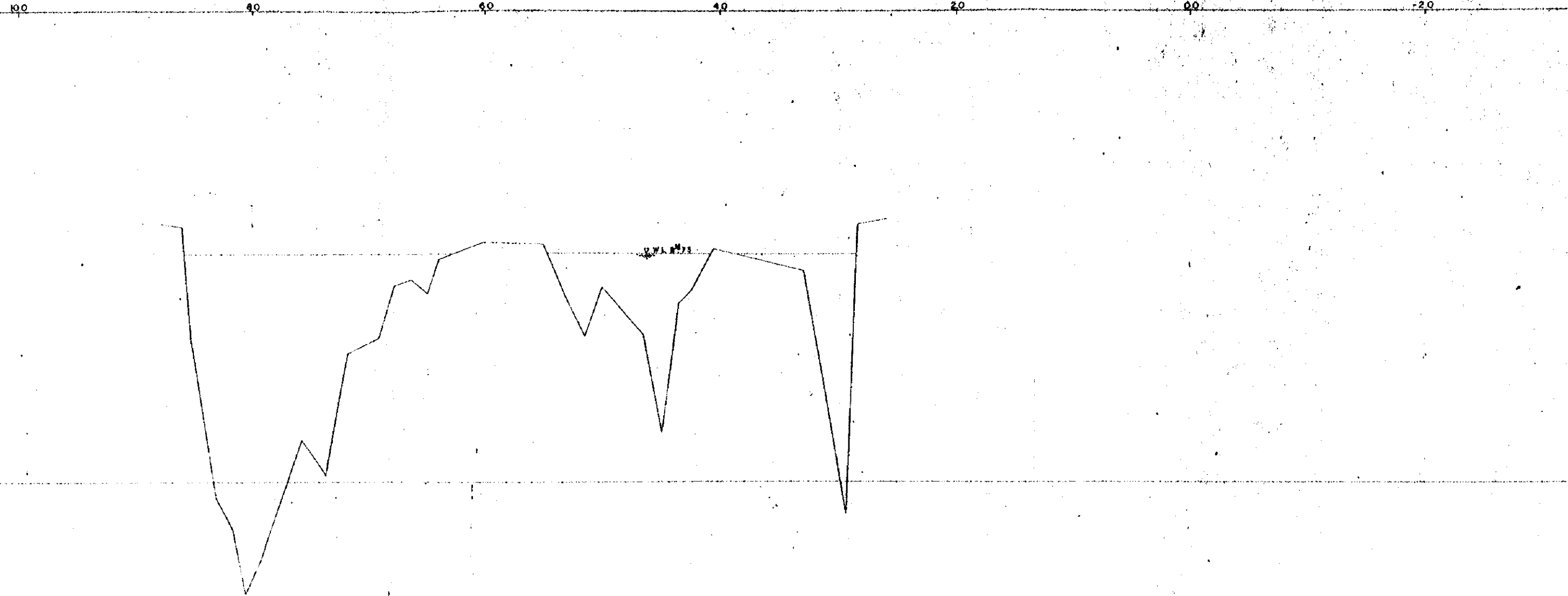


PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H * 1 / 20 000 V * 1 / 100	APPROVED BY	
SHEET NO.	N - 11	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N - 12

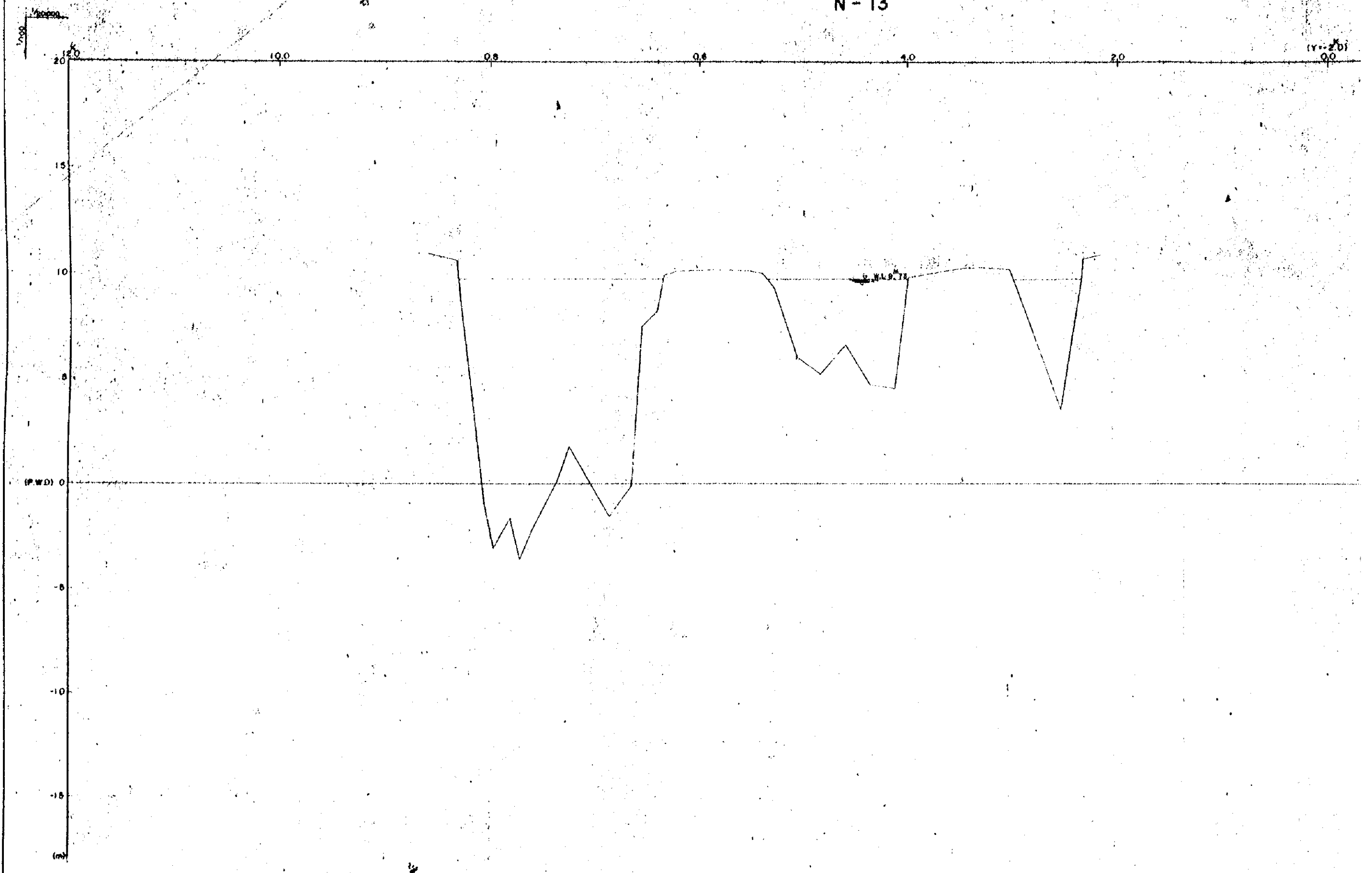


N - 12



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO	N - 12	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-13



N-13

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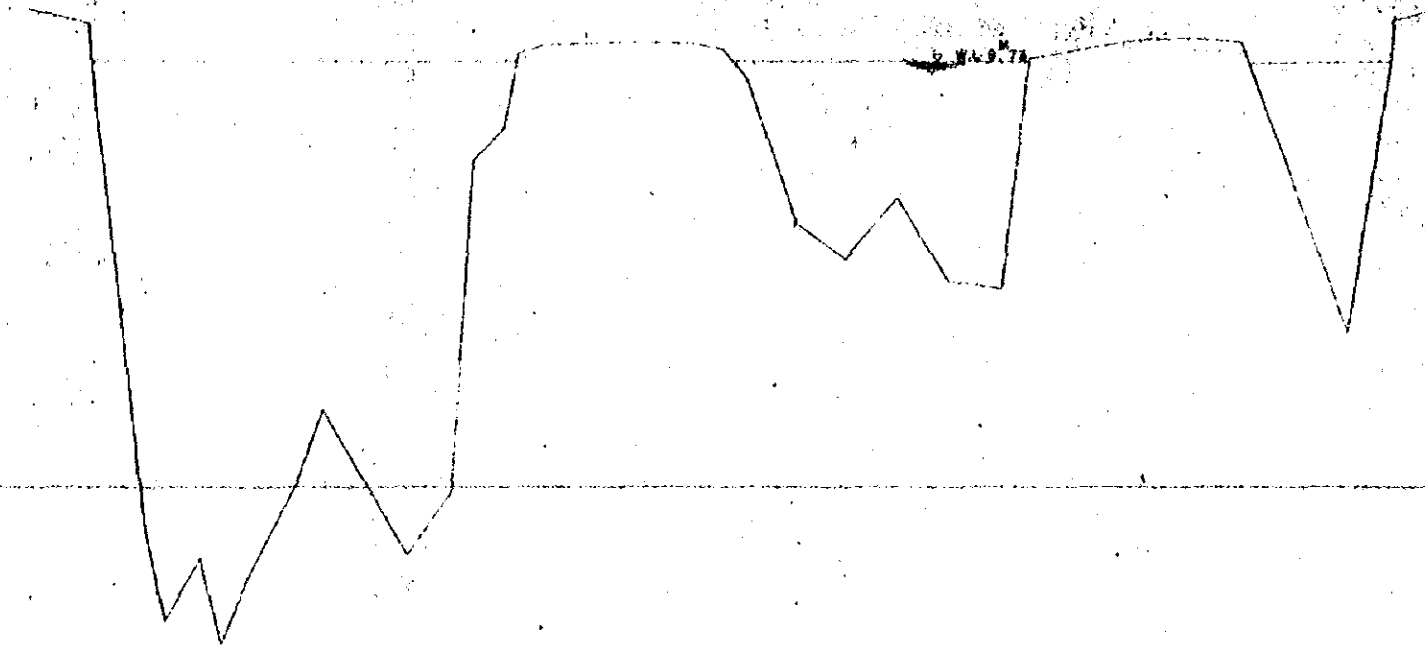
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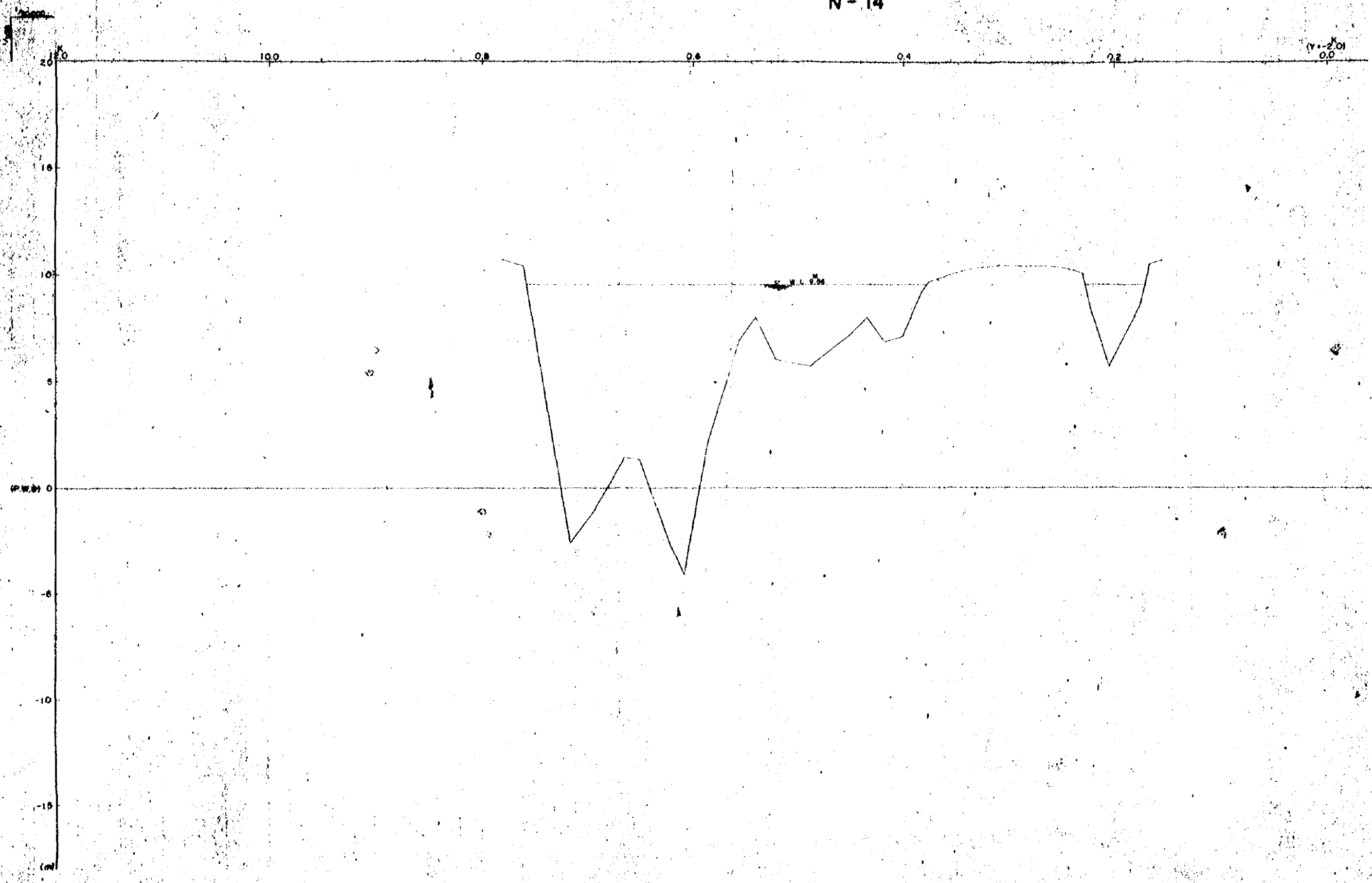
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PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20,000 V = 1/100	APPROVED BY	
SHEET NO	N - 13	CHECKED BY	
SURVEYED ON	27-SEP-5-10CP-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-14



N-14

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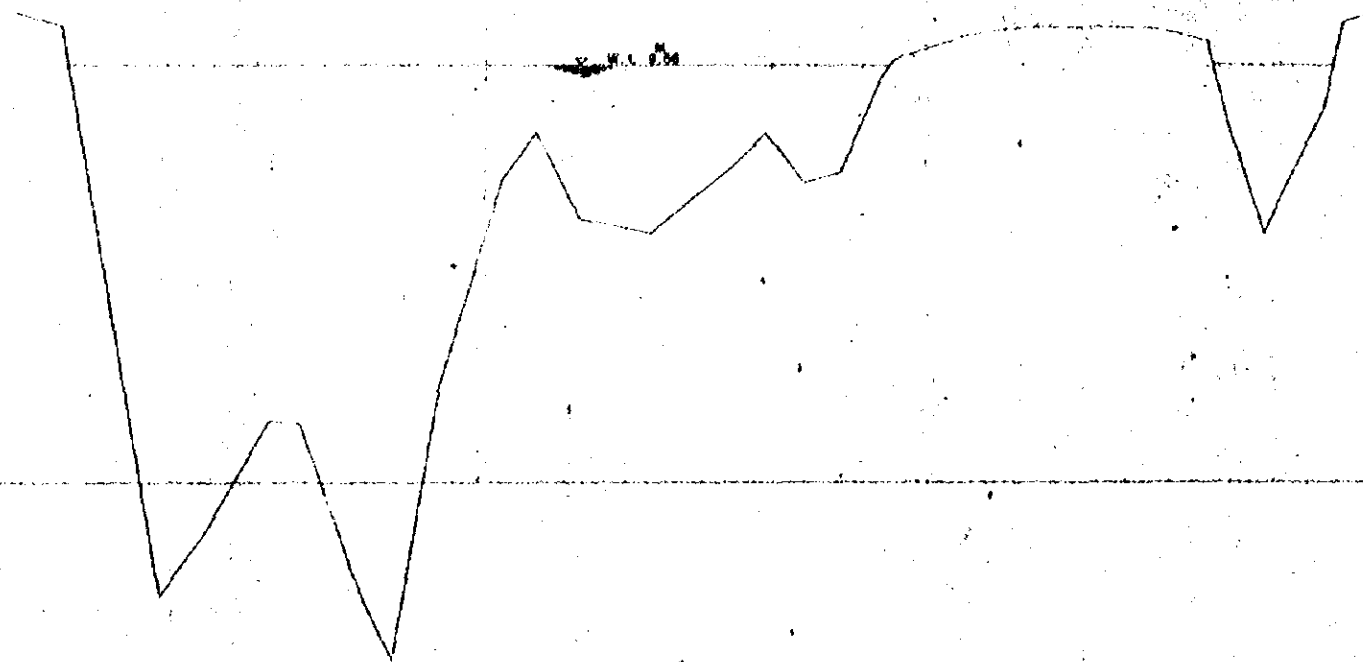
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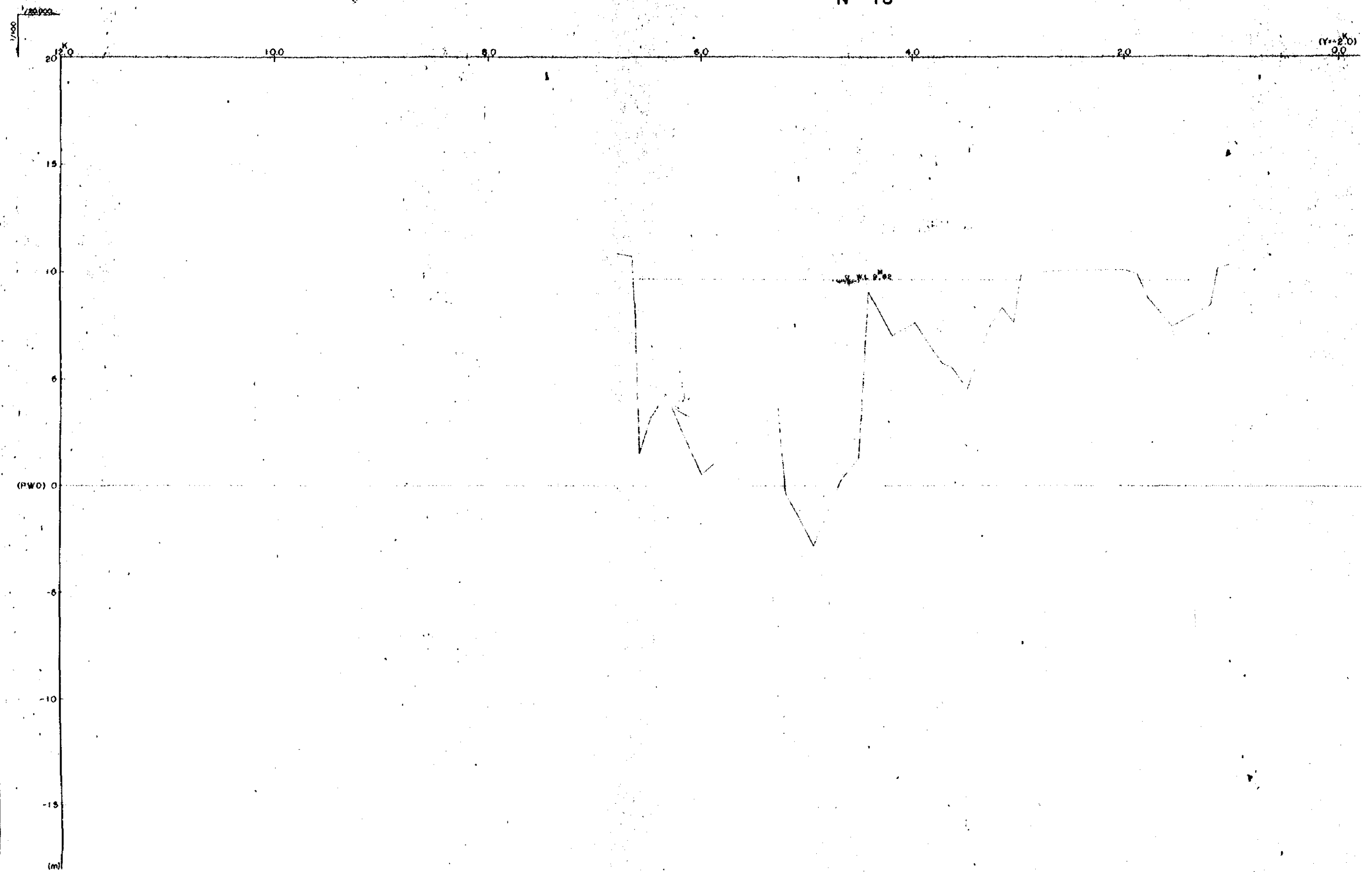
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PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H 1/20000 V 1/100	APPROVED BY	
SHEET NO	N-14	CHECKED BY	
SURVEYED ON	27-SEP-8-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-15



N-15

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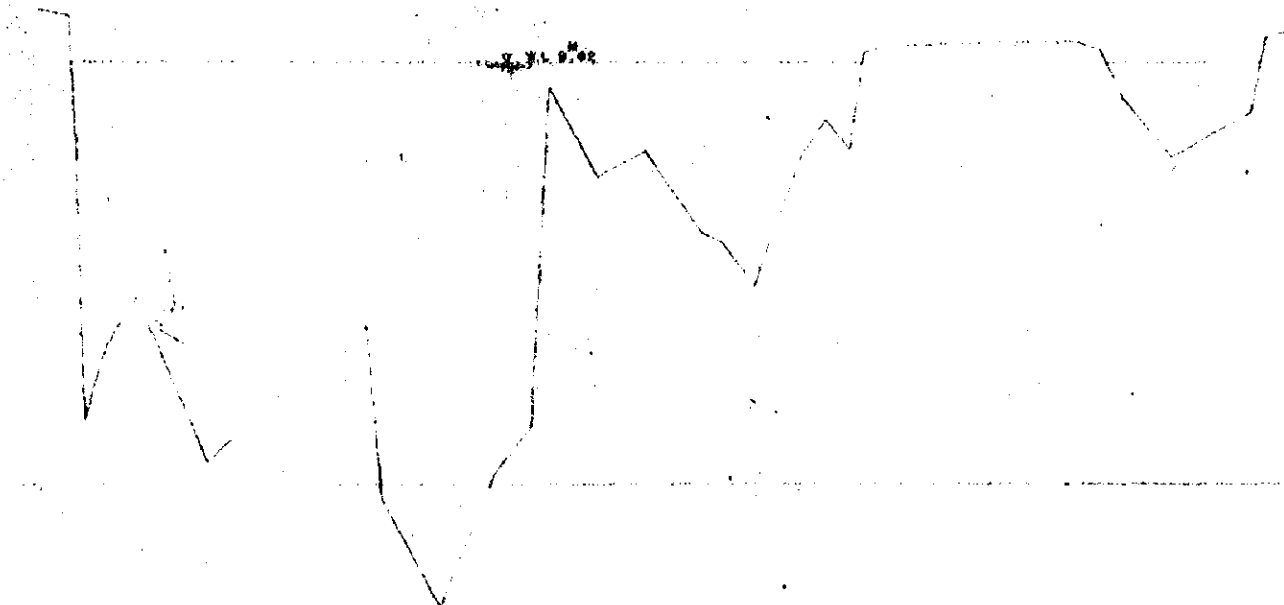
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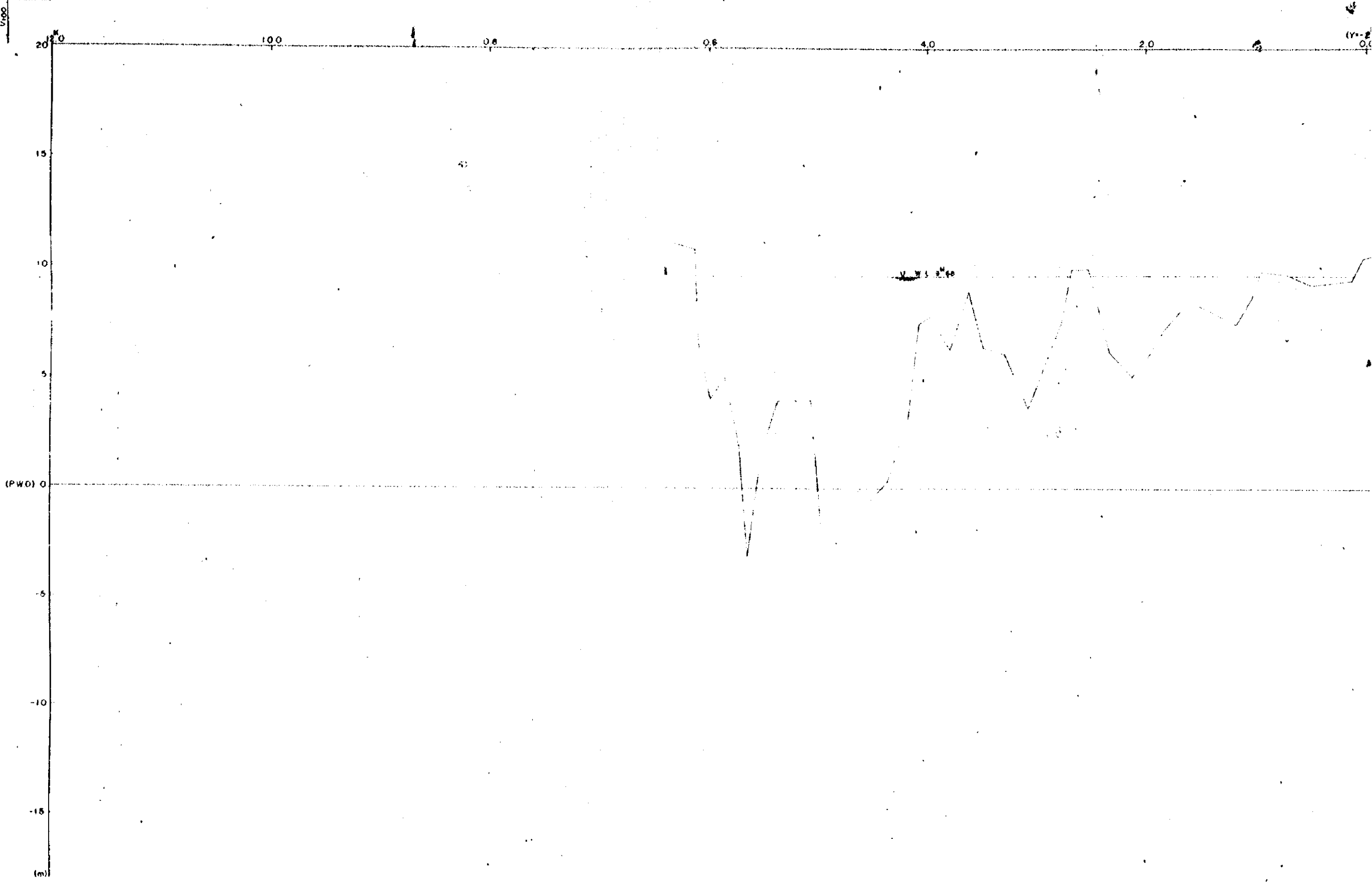
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PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20,000 V = 1 / 100	APPROVED BY	
SHEET NO	N - 15	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-16

1/20,000



N-16

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08

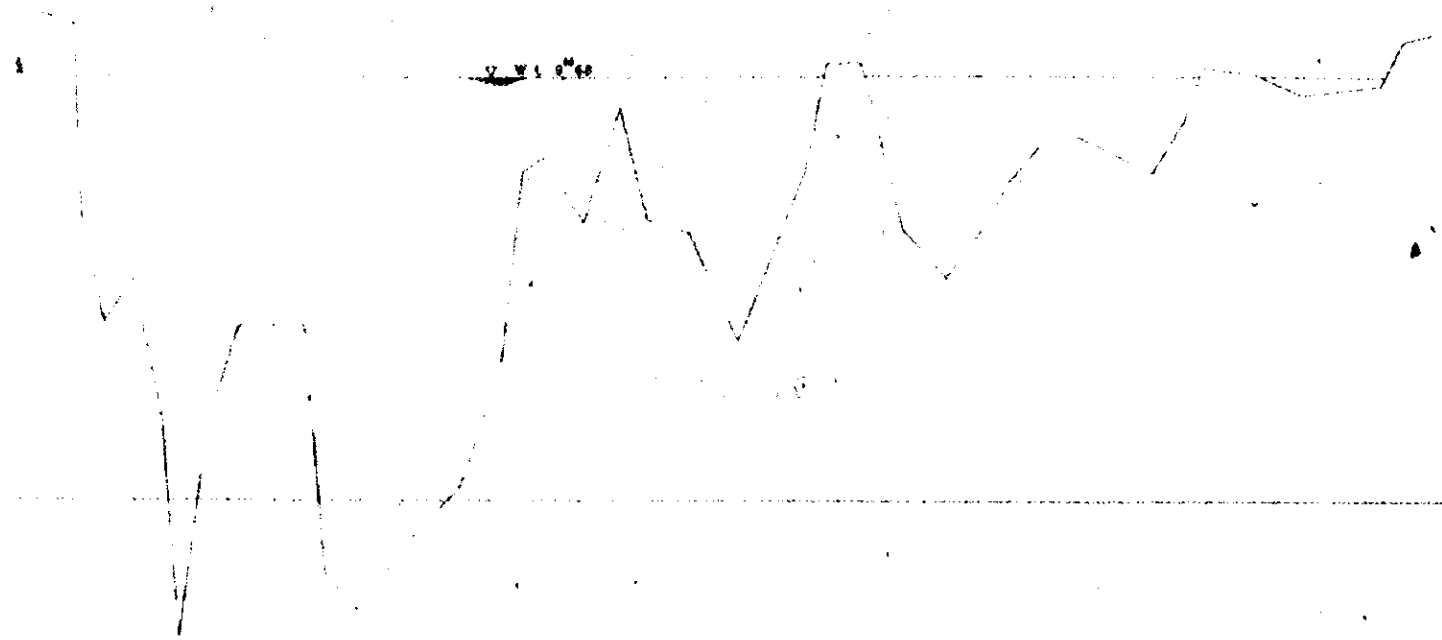
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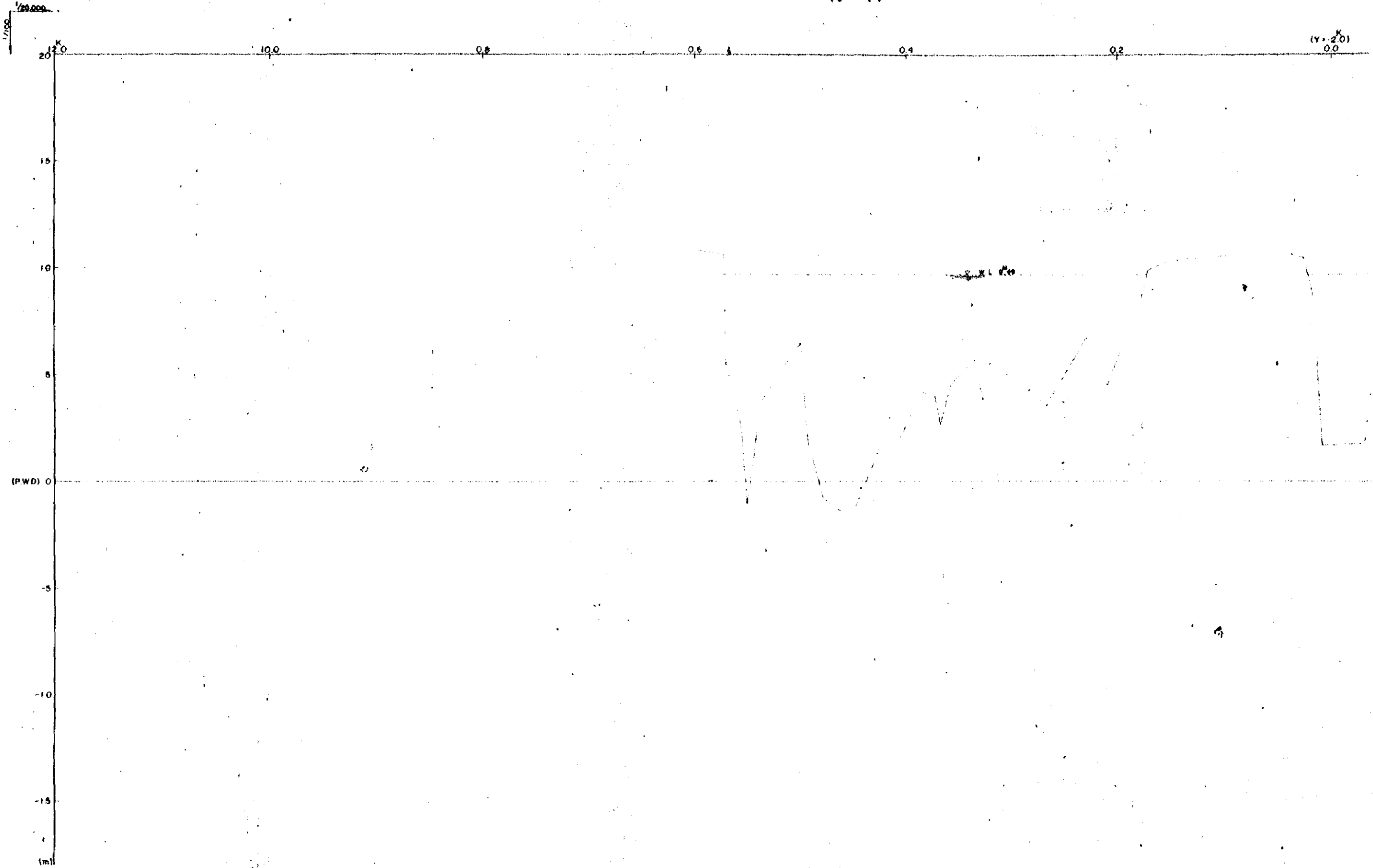
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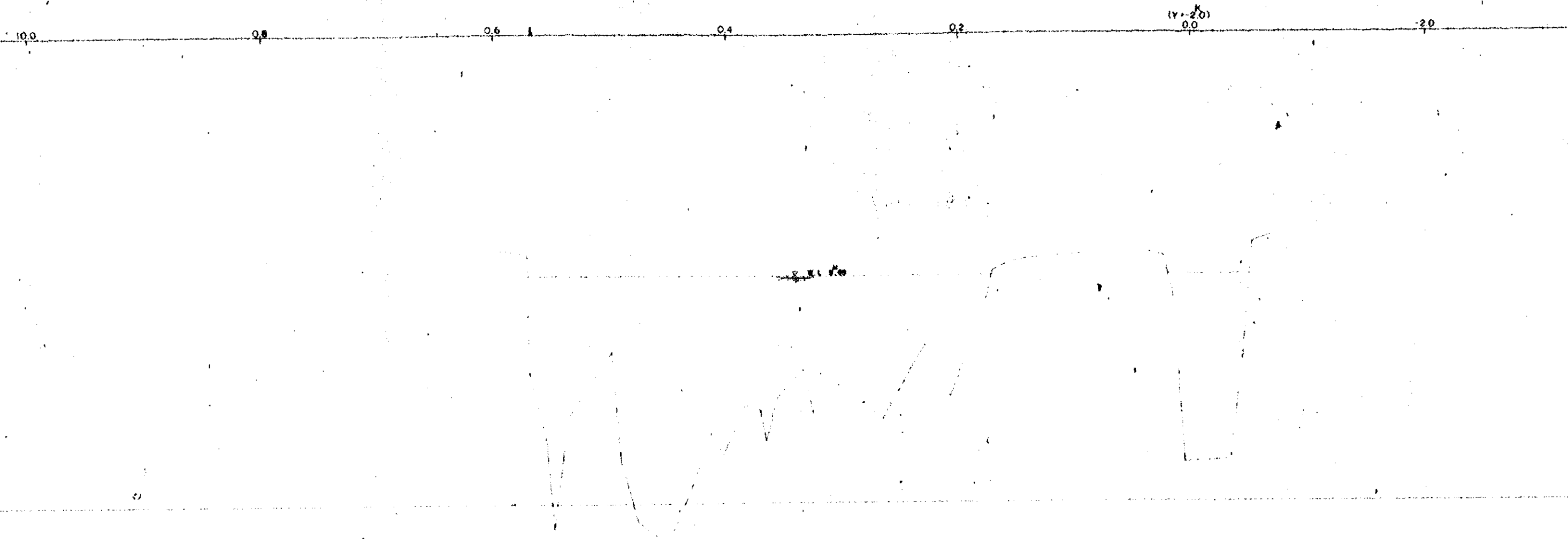


PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO	N - 16	CHECKED BY	
SURVEYED ON	27-SEP-6-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-17

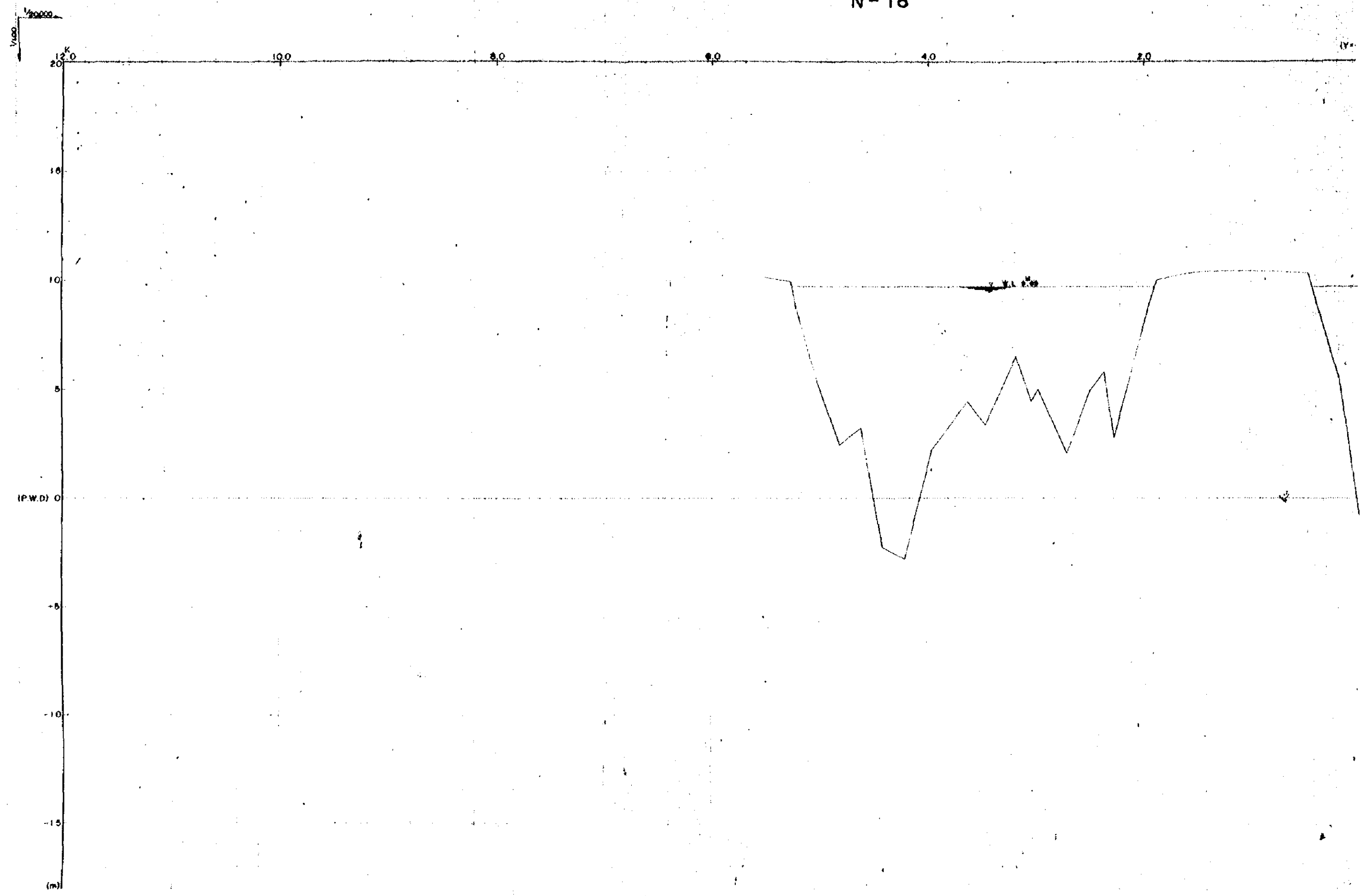


N-17



PROJECT	BANGLADESH	
	JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	NAGARBARI	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20 000 V = 1/100	APPROVED BY
SHEET NO	N - 17	CHECKED BY
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN		

N-18



N-18

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80

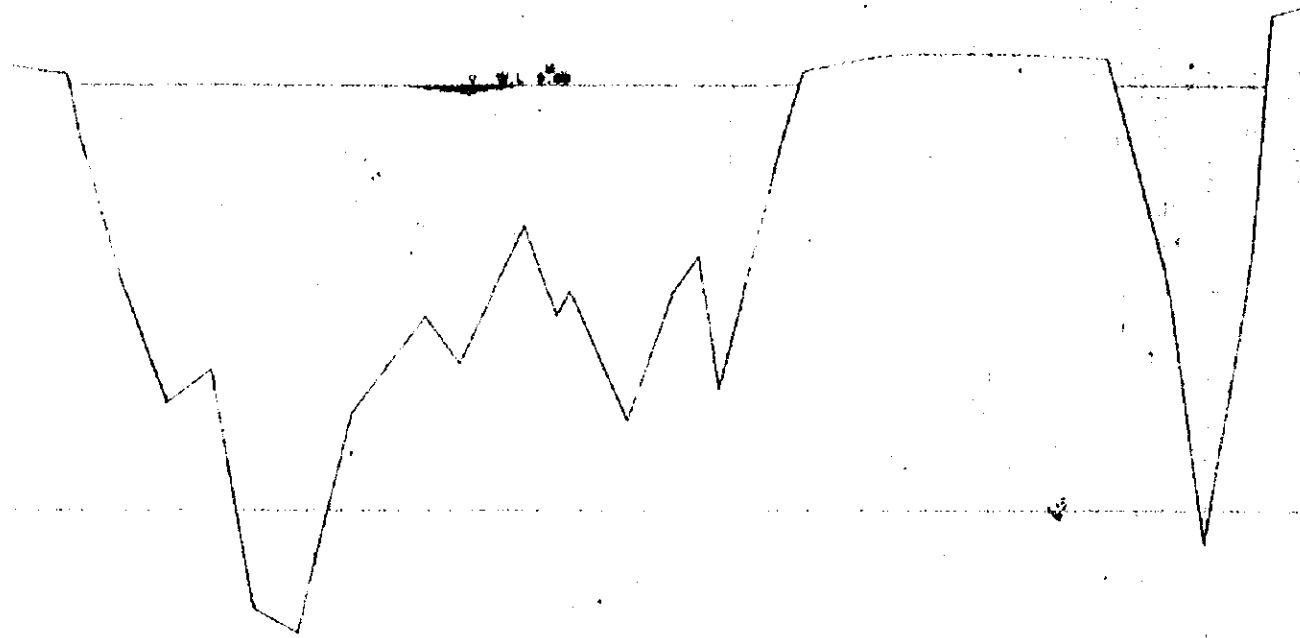
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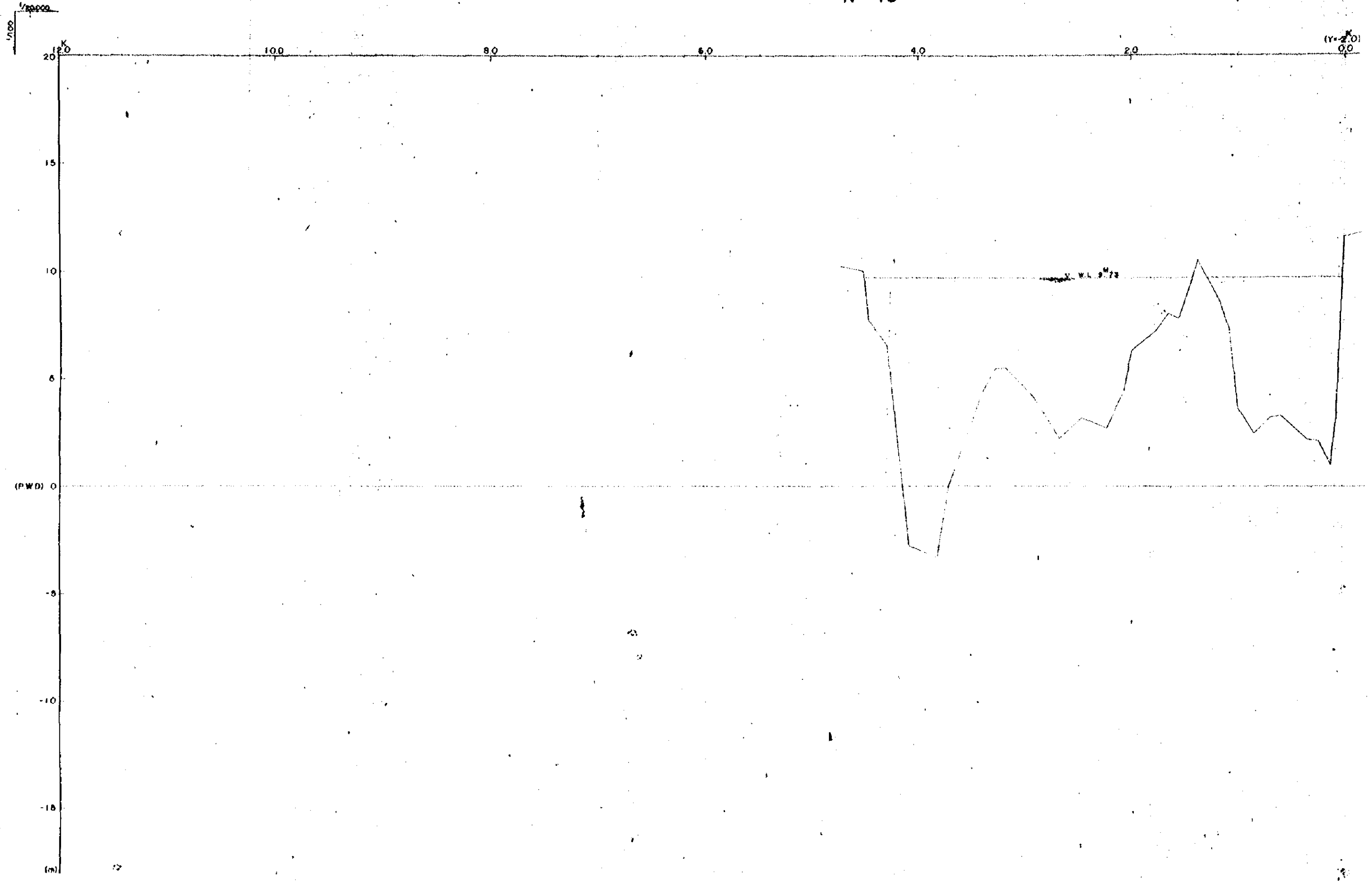
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PROJECT	BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE	NAGARBARI	
TITLE	LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY
SHEET NO	N - 18	CHECKED BY
SURVEYED ON	27-SEP-6-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN		
REPORTED BY INTERNATIONAL ENGINEERS CONSULTANTS ASSOCIATION JAPAN		

N-19



N - 19

100

80

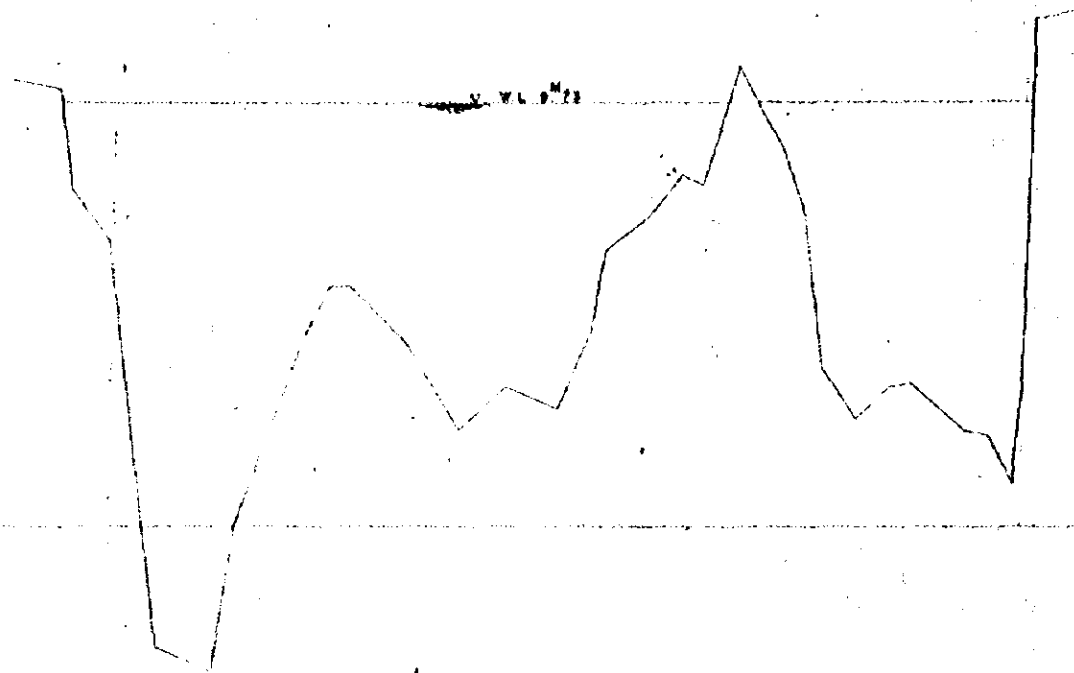
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40

20

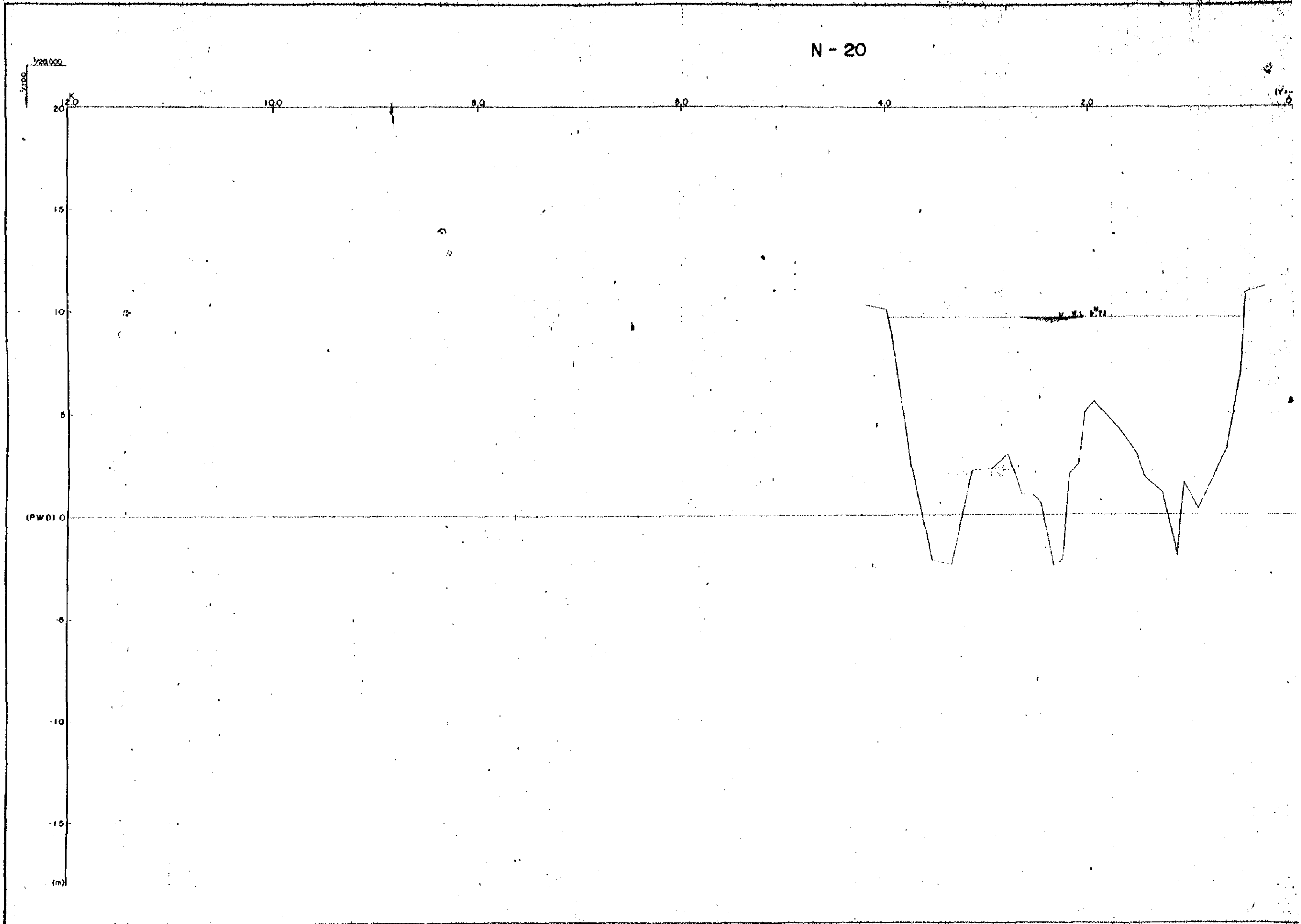
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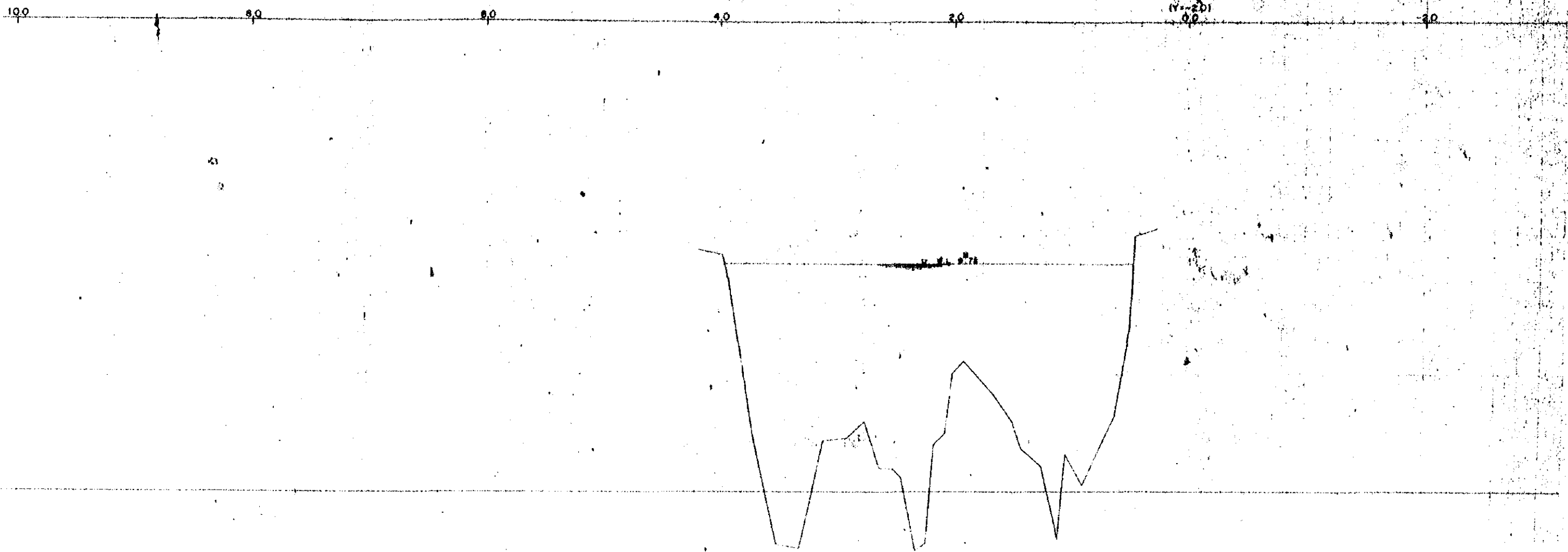


PROJECT		BANGLADESH	
JAMUNA BRIDGE CONSTRUCTION PROJECT			
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20,000 V = 1/100	APPROVED BY	
SHEET NO	N - 19	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N - 20

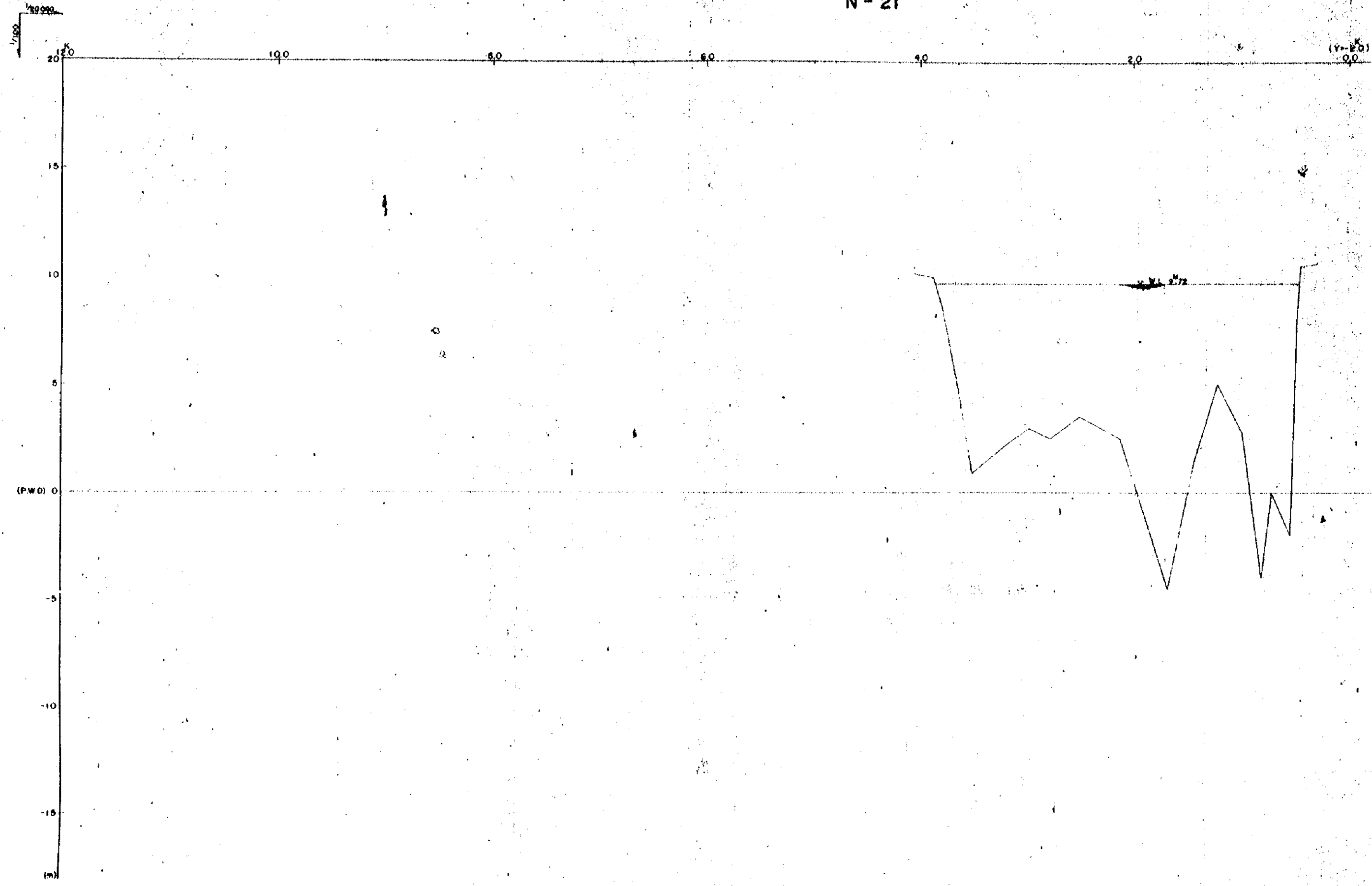


N - 20



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H : 1 / 20000 V : 1 / 100	APPROVED BY	
SHEET NO	N - 20	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1978	DRAWN BY	
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N - 21



N - 21

100

80

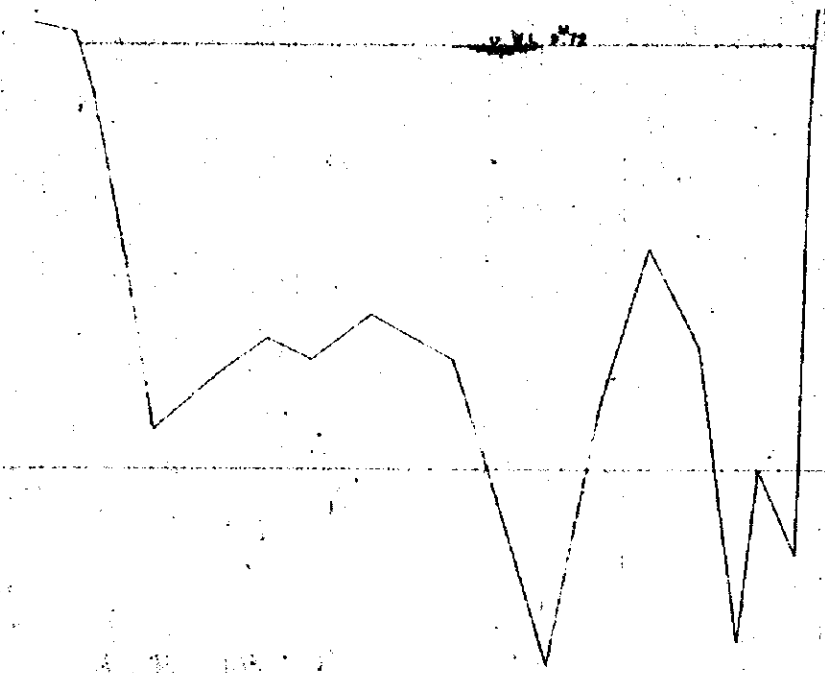
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40

20

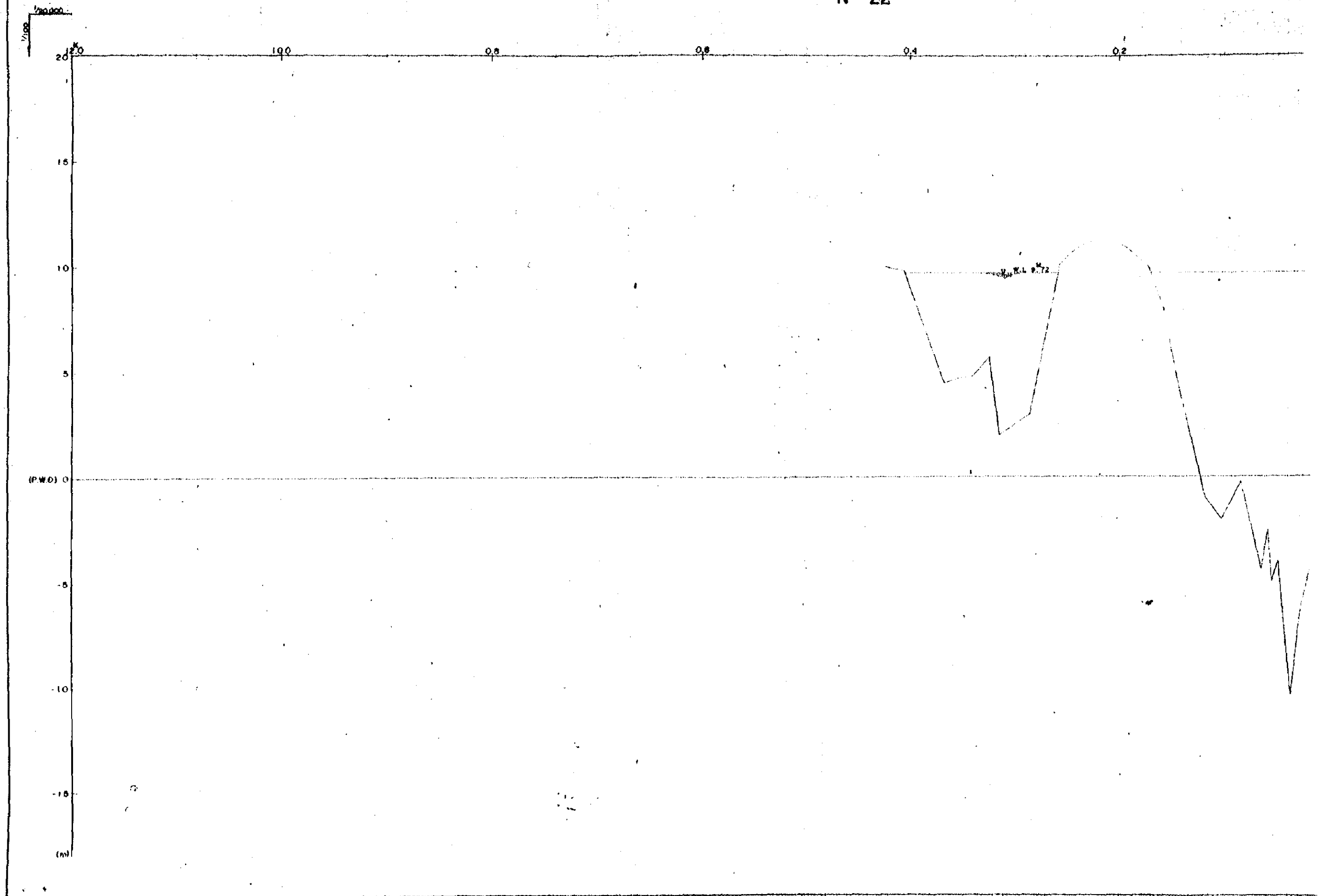
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PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1/20,000 V = 1/100	APPROVED BY	
SHEET NO	N - 21	CHECKED BY	
SURVEYED ON	27-SEP-5-OCT-1978	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N - 22



N - 22

100

0.8

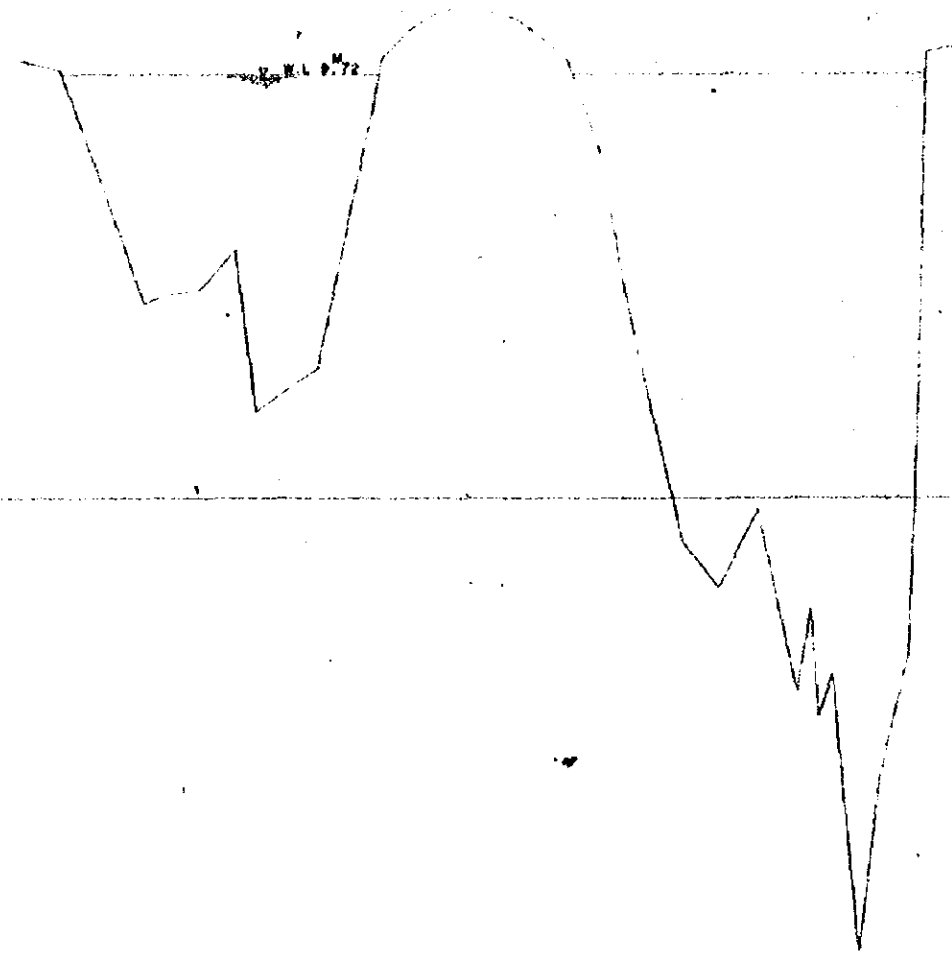
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(V.L. 2.0)
0.0

102



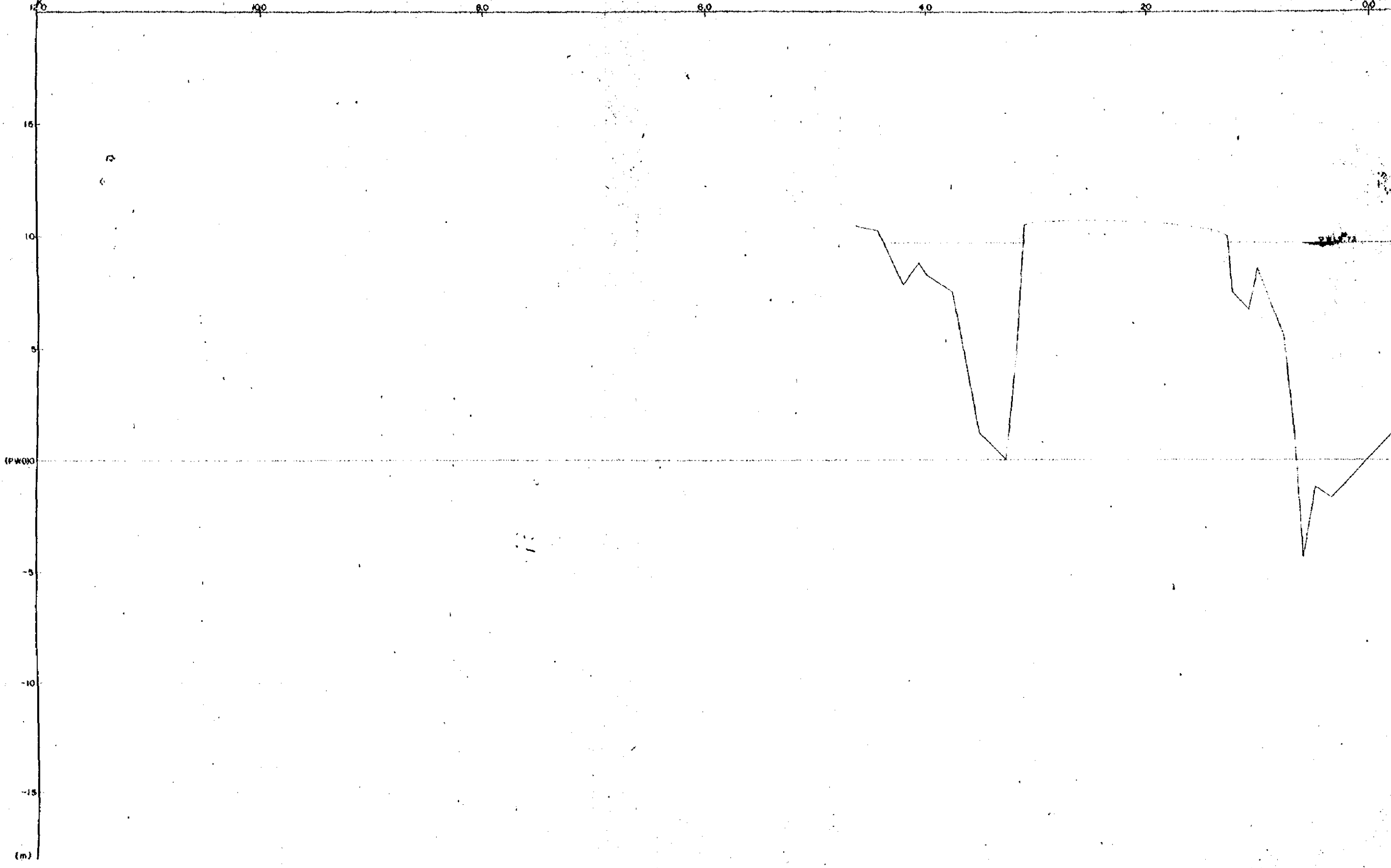
PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20000 V = 1 / 100	APPROVED BY	
SHEET NO	N - 22	CHECKED BY	
SURVEYED ON	27-SEP-6-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

N-23

1/20,000

1/100

(1/100)



N-23

100

80

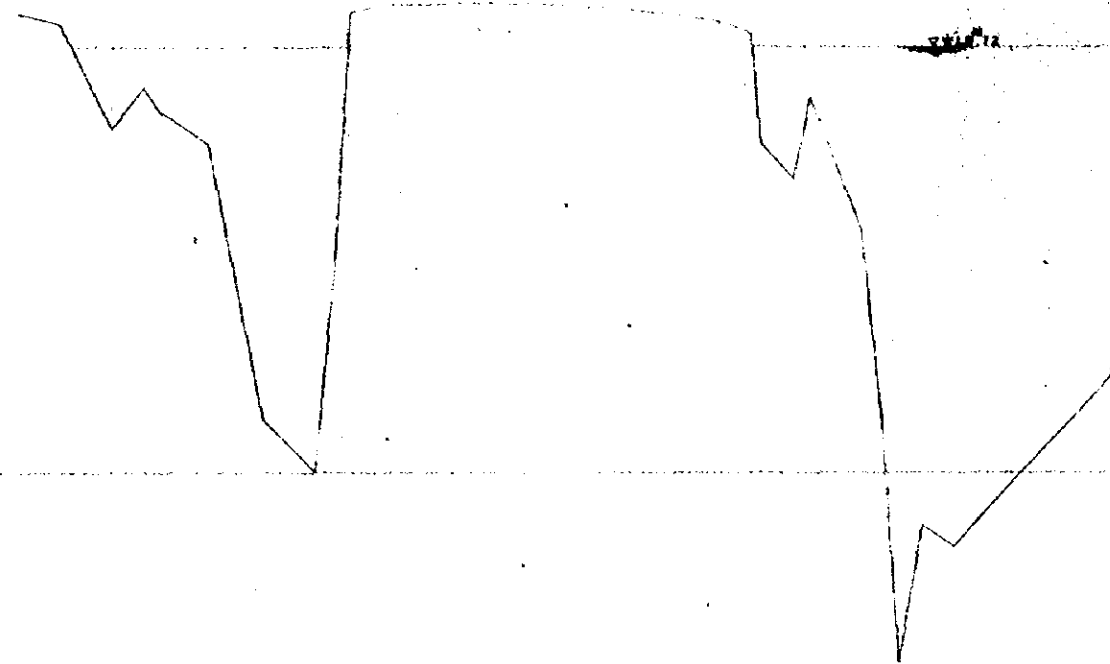
60

40

20

(1/200)
00

-20

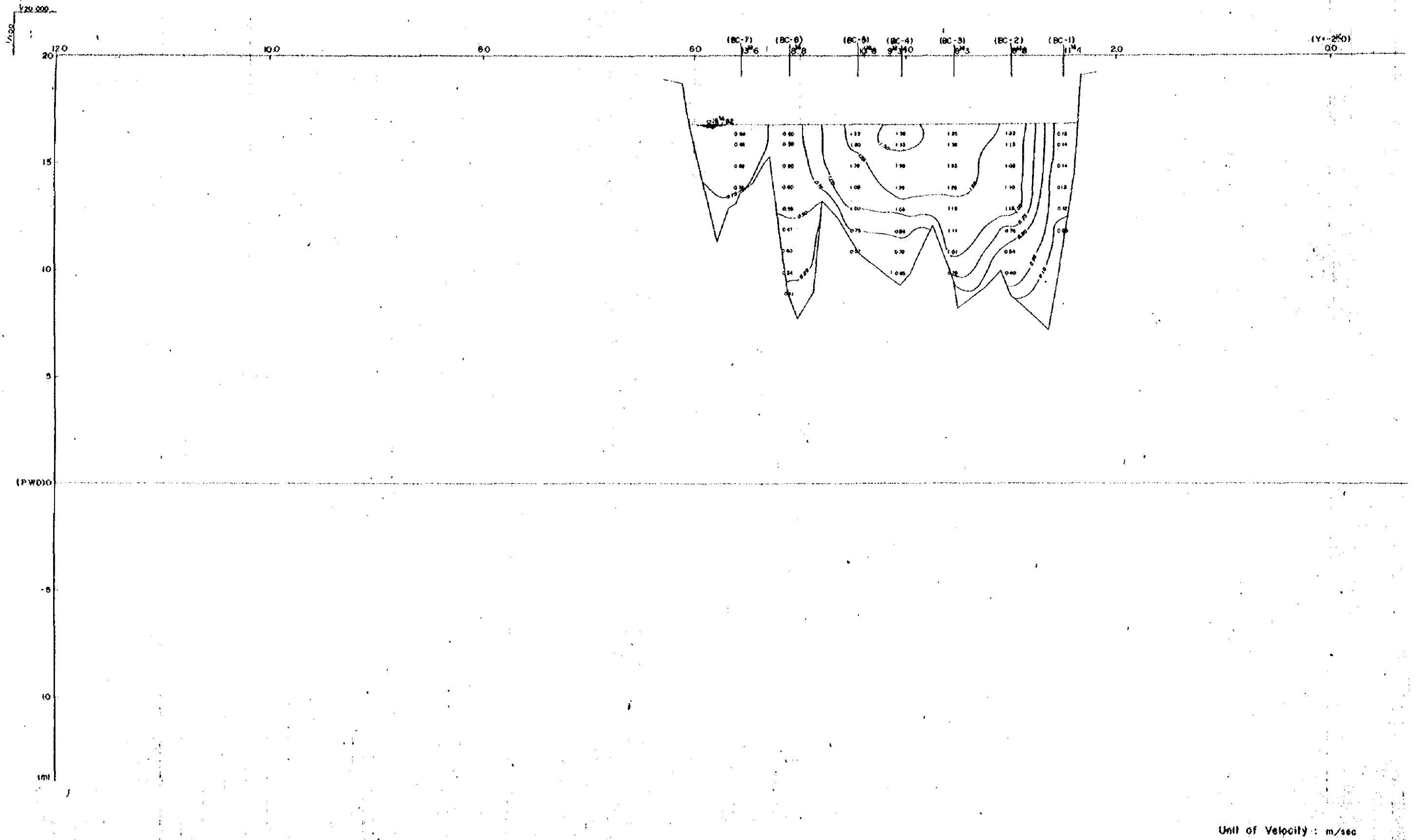


PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		LATERAL PROFILE OF THE JAMUNA RIVER AROUND NAGARBARI PROPOSED SITE	
SCALE	H = 1 / 20 000 V = 1 / 100	APPROVED BY	
SHEET NO	N - 23	CHECKED BY	
SURVEYED ON	27 SEP - 5 OCT 1973	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

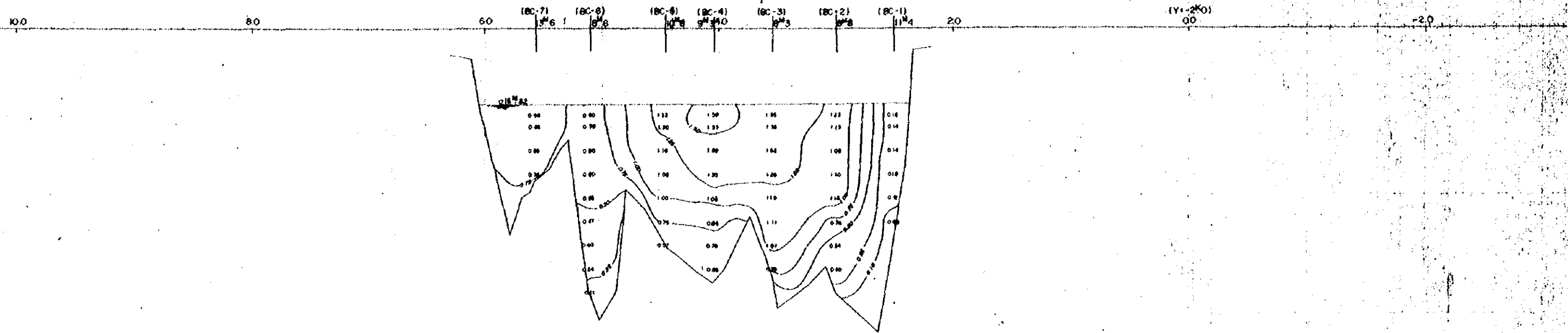
資 料 一 4

流 速 測 定 資 料

BAHADURABAD



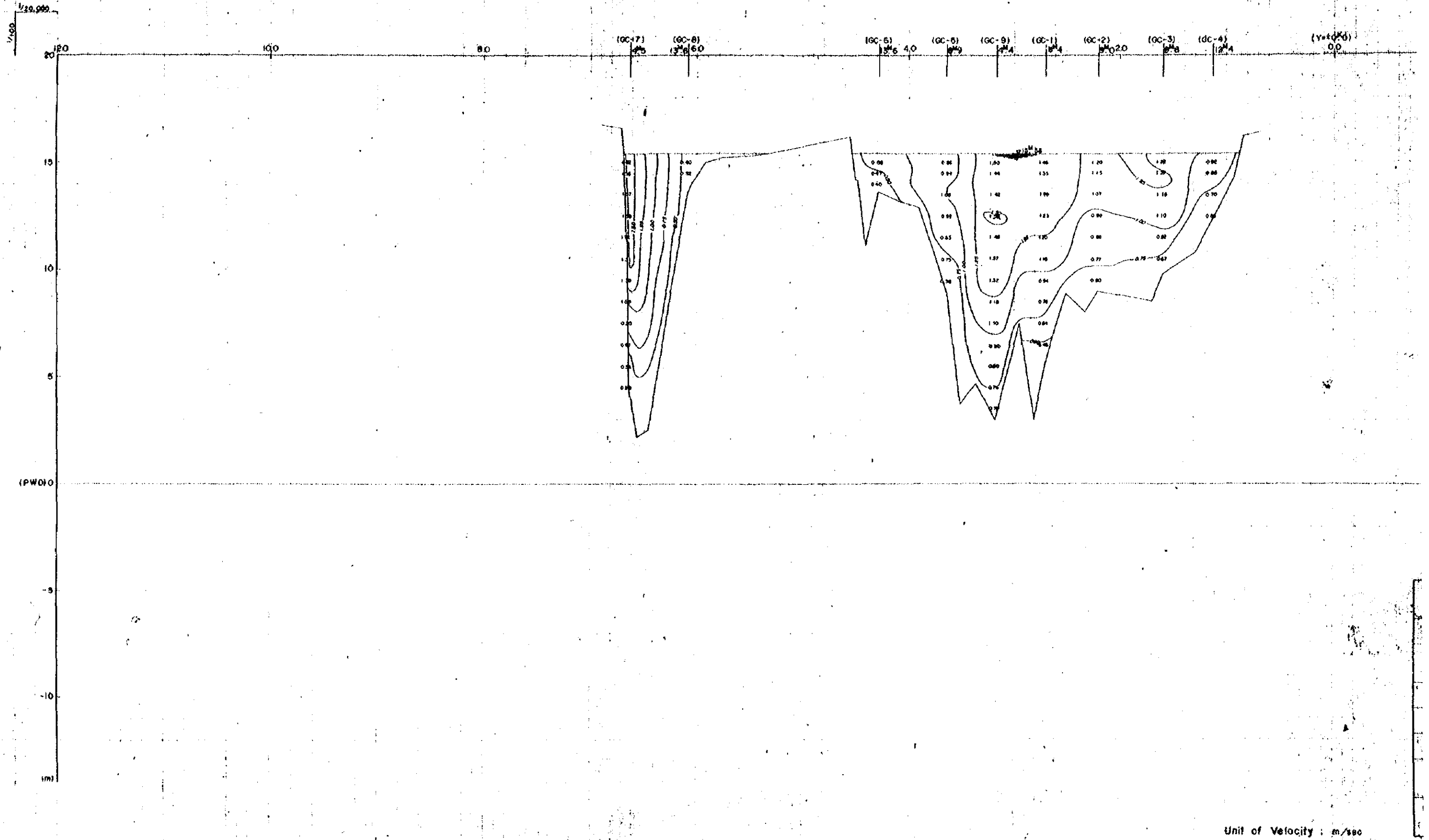
BAHADURABAD



PROJECT BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE BAHADURABAD	
TITLE VELOCITY DISTRIBUTION OF THE JAMUNA RIVER AT SECTION NO. B-8	
SCALE H = 1/20000 V = 1/100	APPROVED BY
SHEET NO	CHECKED BY
SURVEYED ON 11-OCT-1973	DRAWN BY
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN	
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION I.E.C.A.	

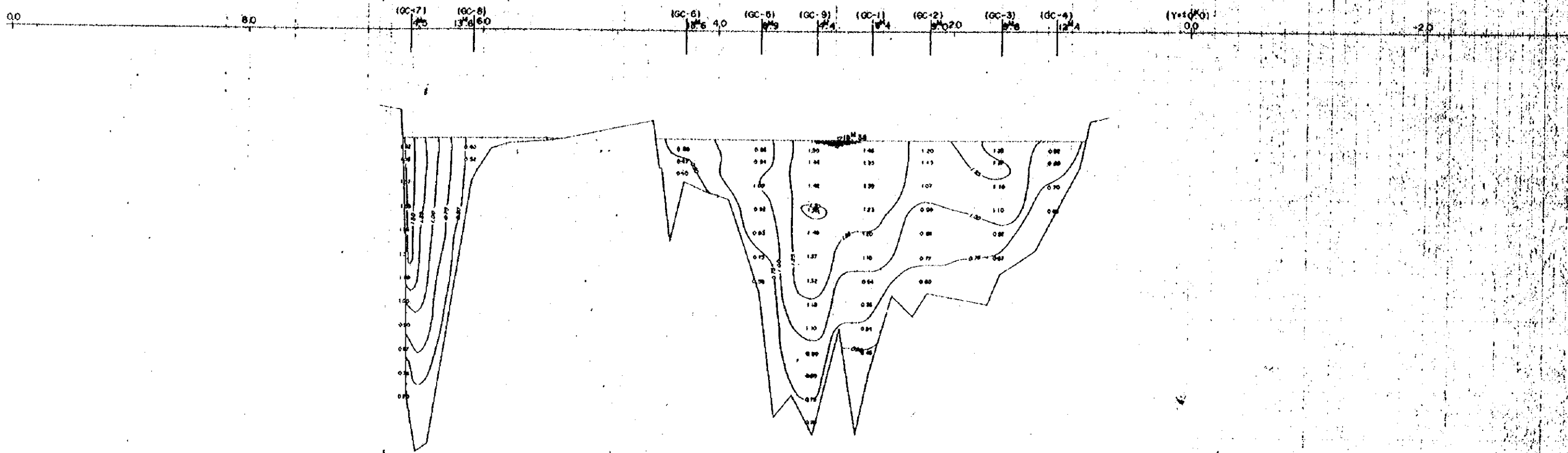
Unit of Velocity : m/sec

GABARGAON



Unit of Velocity : m/sec

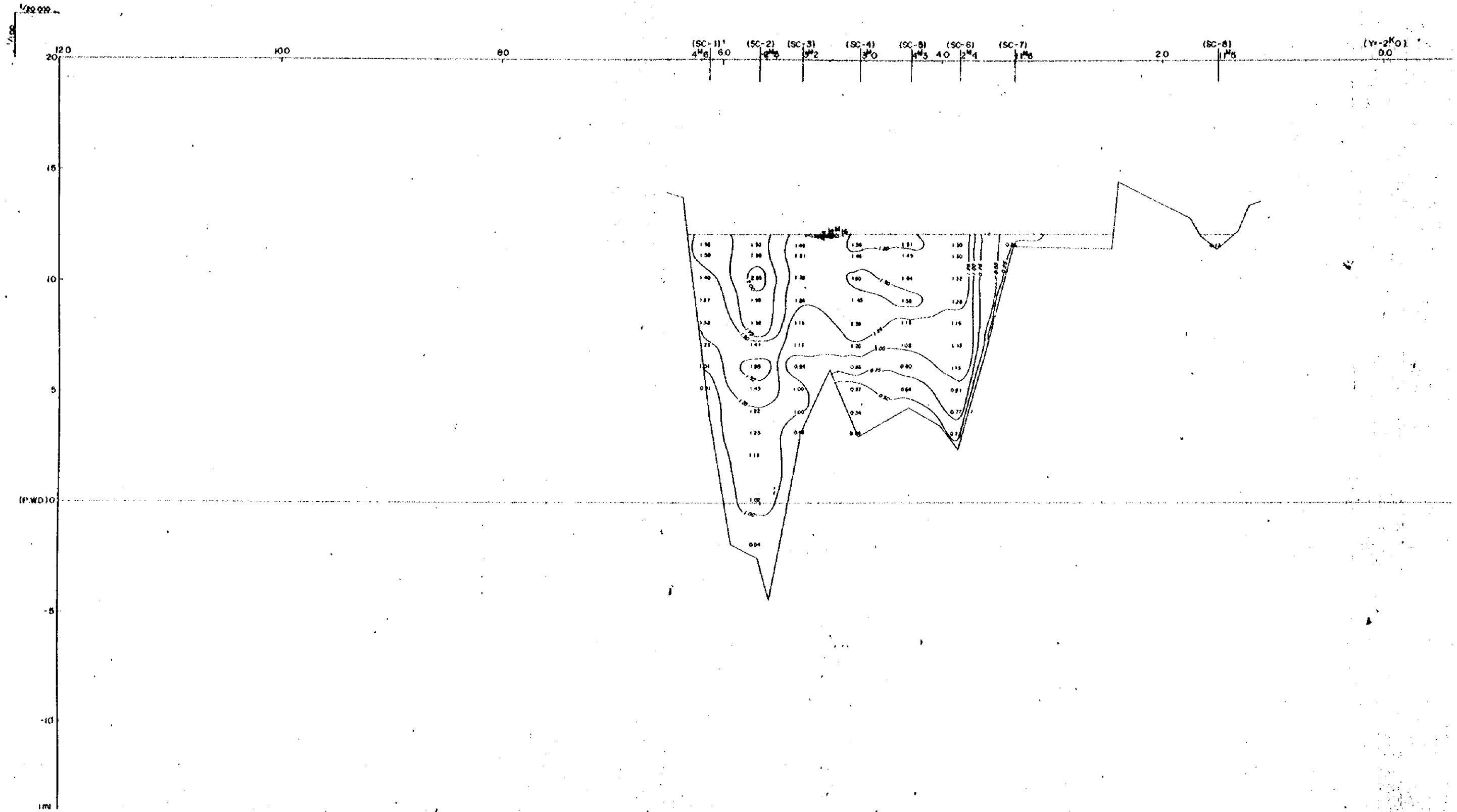
GABARGAON



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		GABARGAON	
TITLE		VELOCITY DISTRIBUTION OF THE JAMUNA RIVER AT SECTION NO. G-8	
SCALE	H = 1/20000 V = 1/100	APPROVED BY	
SHEET NO		CHECKED BY	
SURVEYED ON	17-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

Unit of Velocity : m/sec

SIRAJGANJ



SIRAJGANJ

100

80

(SC-1) 4^M 6.0

(SC-2) 4^M 5.5

(SC-3) 4^M 5.2

(SC-4) 4^M 5.0

(SC-5) 4^M 4.5

(SC-6) 4^M 4.0

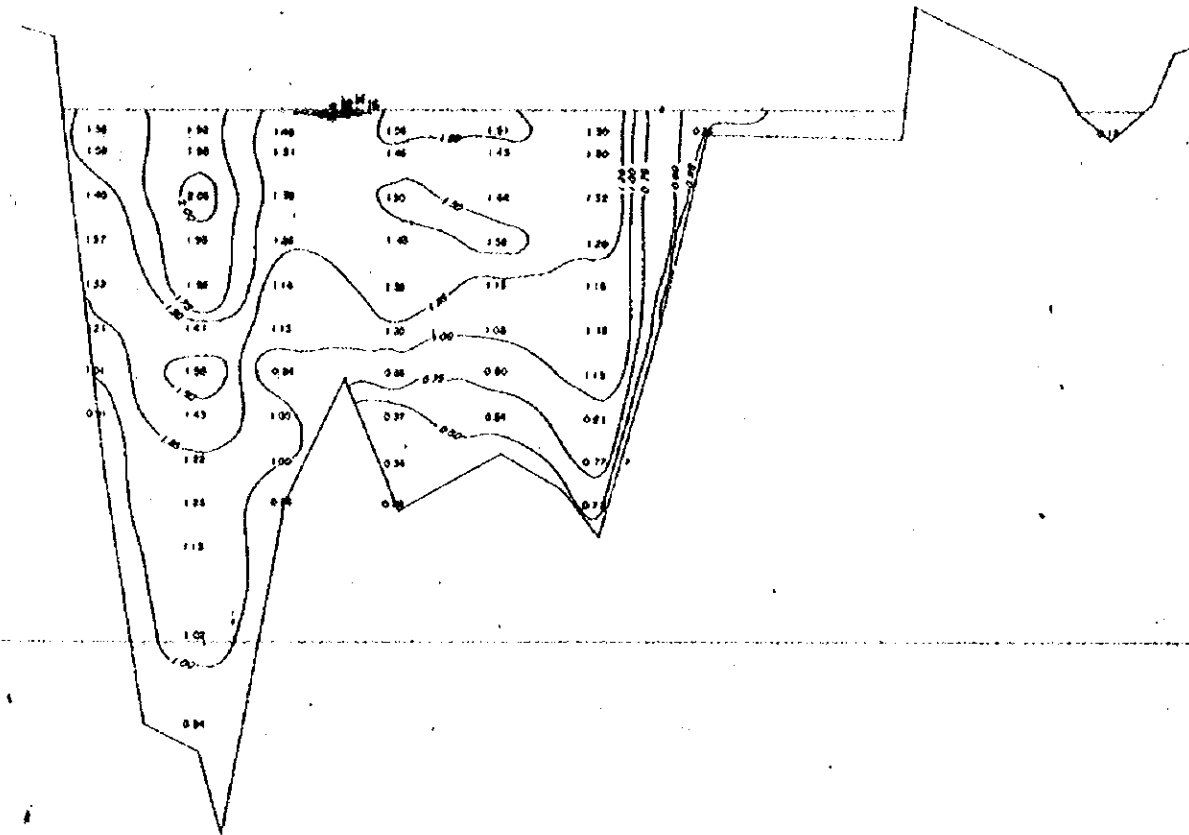
(SC-7) 4^M 3.5

20

(SC-8) 4^M 3.0

(Y-2^M0) 0.0

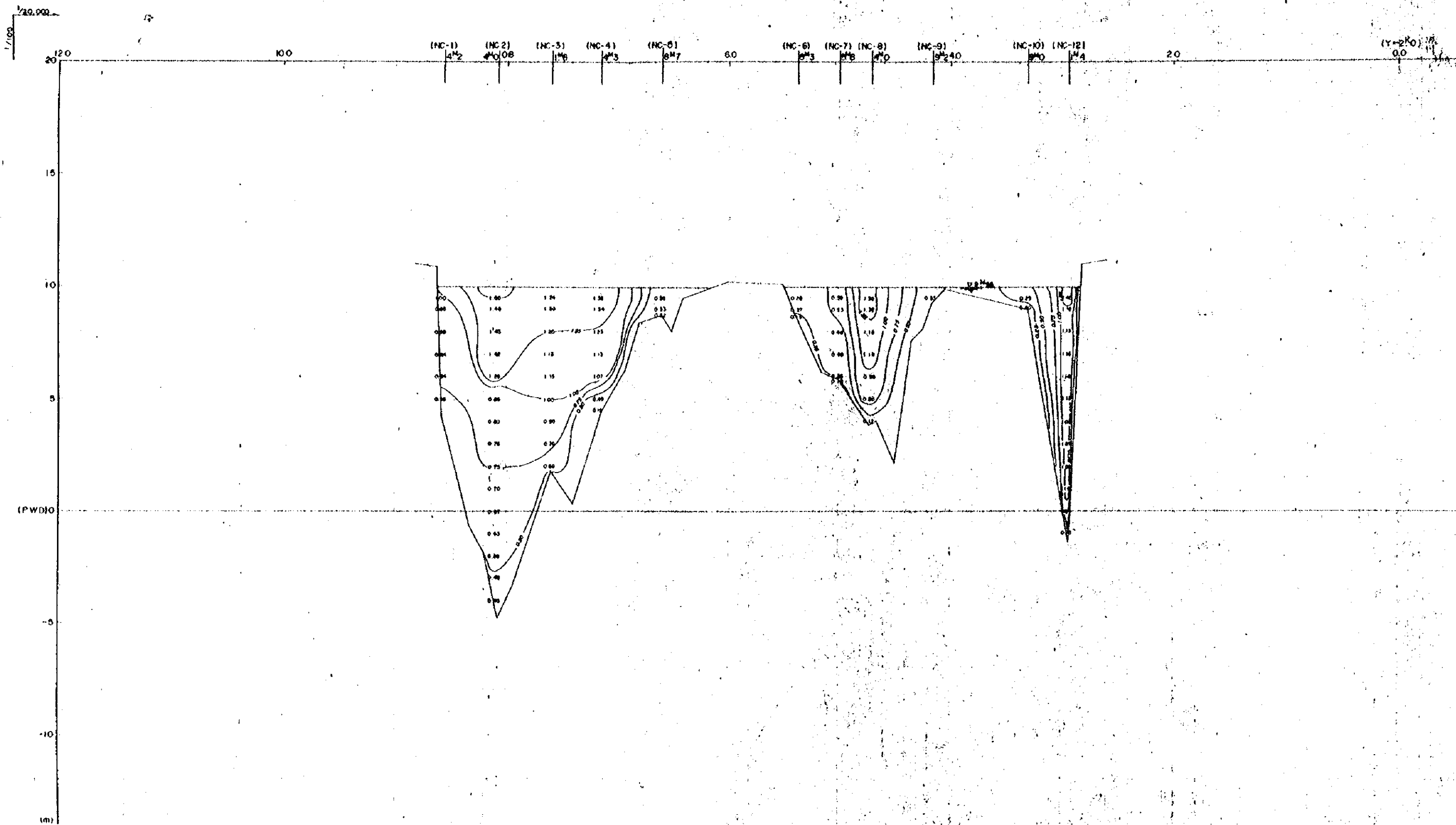
-20



PROJECT		BANGLADESH	
		JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		SIRAJGANJ	
TITLE		VELOCITY DISTRIBUTION OF THE JAMUNA RIVER AT SECTION NO. 3-12	
SCALE	H 1 / 20,000 V 1 / 100	APPROVED BY	
SHEET NO		CHECKED BY	
SURVEYED ON	24-SEP-1978	DRAWN BY	
OVERSEAS TECHNICAL CORPORATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

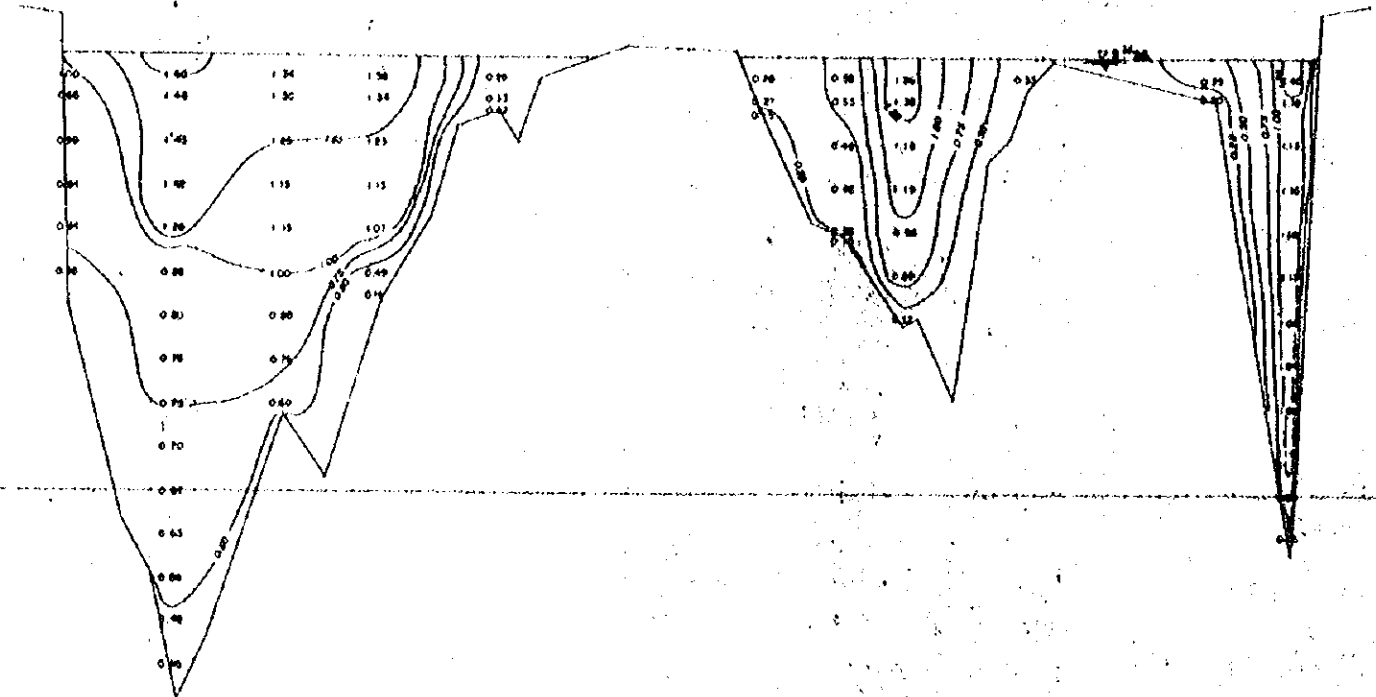
Unit of Velocity : m/sec

NAGARBARI



Unit of Velocity : m/sec

NAGARBARI



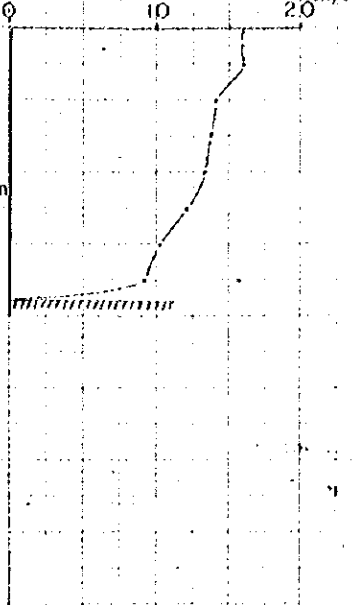
PROJECT		BANGLADESH JAMUNA BRIDGE CONSTRUCTION PROJECT	
SITE		NAGARBARI	
TITLE		VELOCITY DISTRIBUTION OF THE JAMUNA RIVER AT SECTION NO. N-12	
SCALE	H = 1/20000 V = 1/100	APPROVED BY	
SHEET NO		CHECKED BY	
SURVEYED ON	4-OCT-1973	DRAWN BY	
OVERSEAS TECHNICAL COOPERATION AGENCY JAPAN			
REPORTED BY INTERNATIONAL ENGINEERING CONSULTANTS ASSOCIATION JAPAN			

Unit of Velocity : m/sec

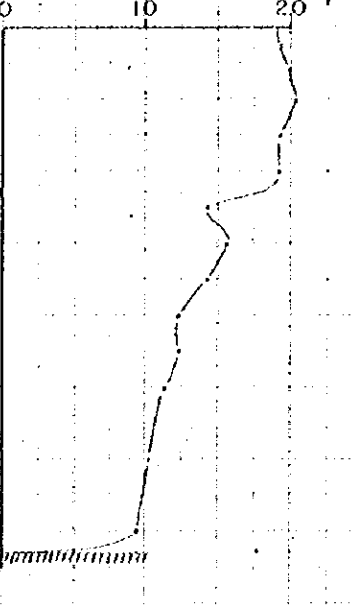
Vertical Distribution of Current Velocity

Date of survey: Sept. 24, 1973

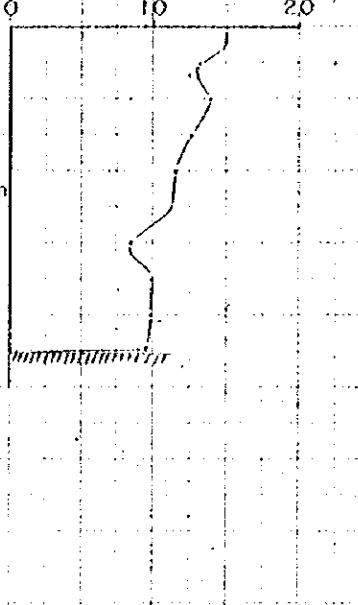
St. SC-1
Time: 12^h 17^m ~ 20^m



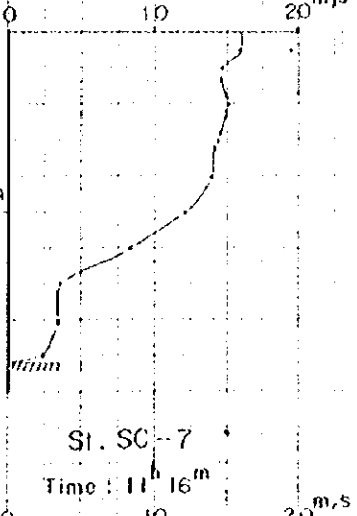
St. SC-2
Time: 09^h 41^m ~ 53^m



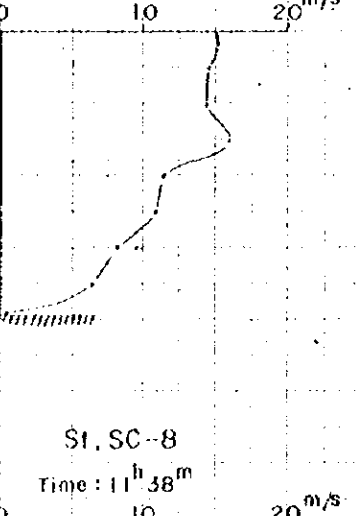
St. SC-3
Time: 10^h 18^m ~ 24^m



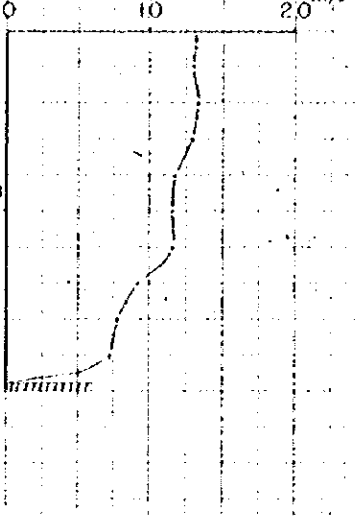
St. SC-4
Time: 10^h 43^m ~ 47^m



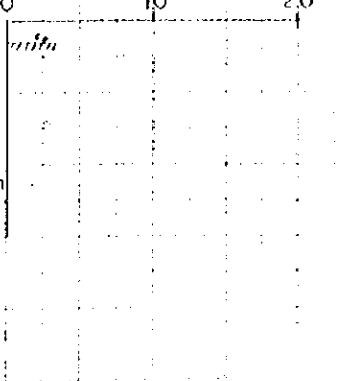
St. SC-5
Time: 10^h 55^m ~ 58^m



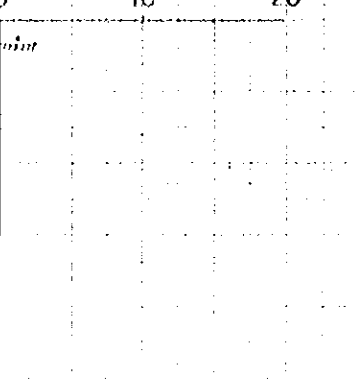
St. SC-6
Time: 11^h 06^m ~ 09^m



St. SC-7
Time: 11^h 16^m

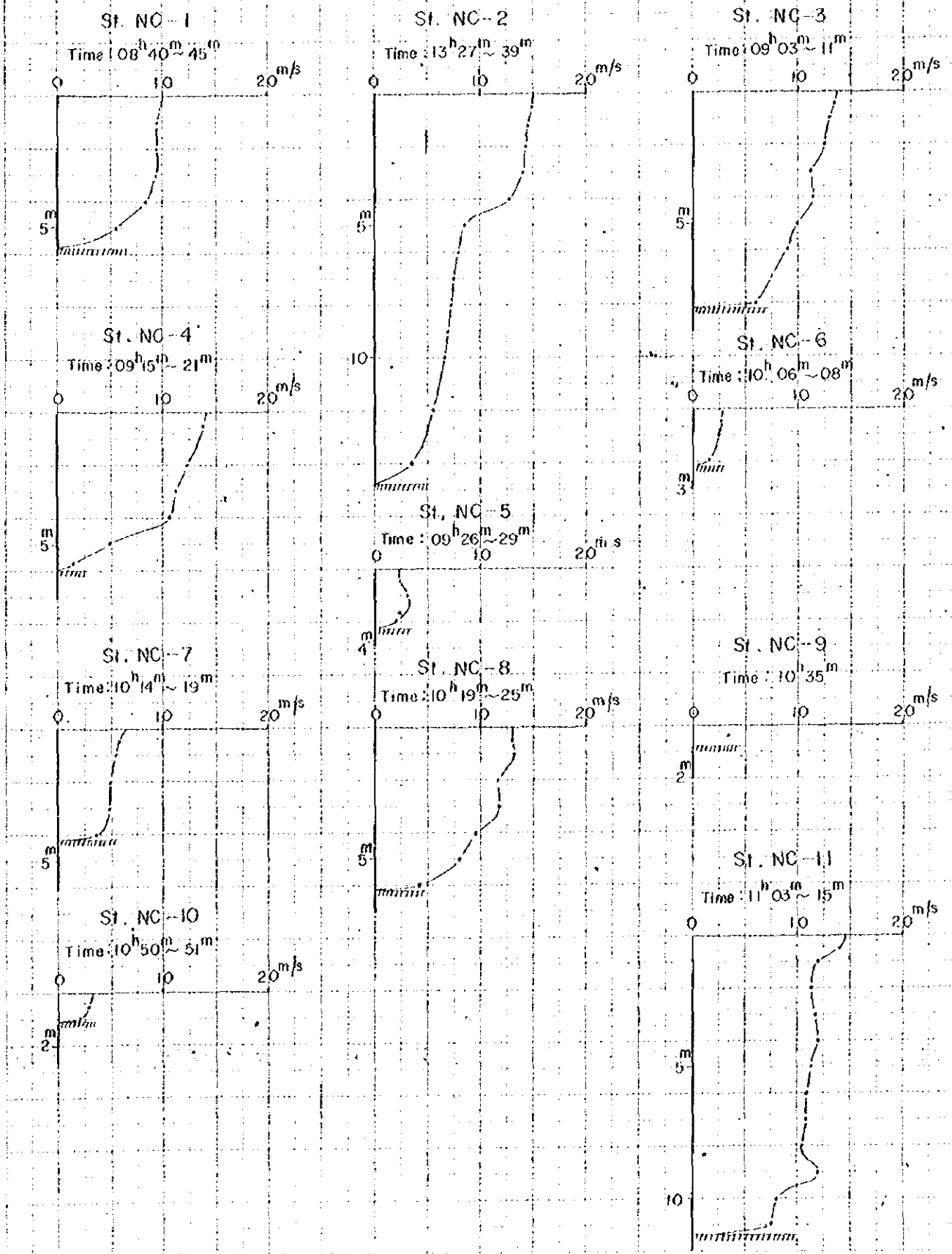


St. SC-8
Time: 11^h 38^m



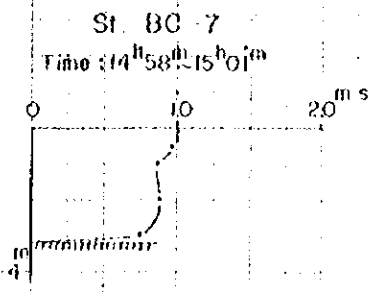
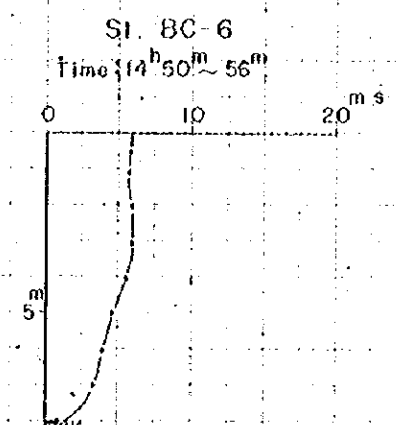
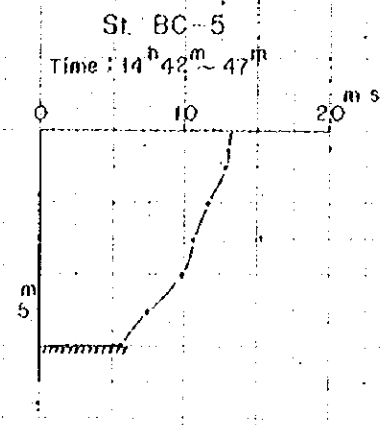
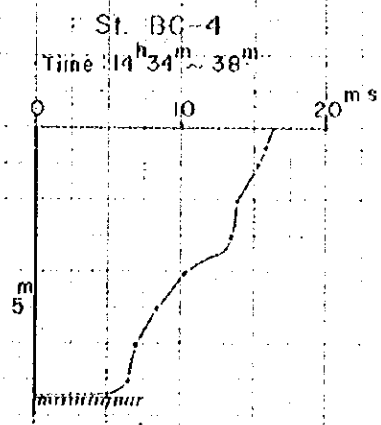
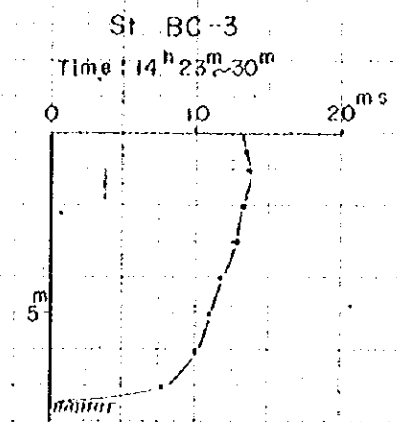
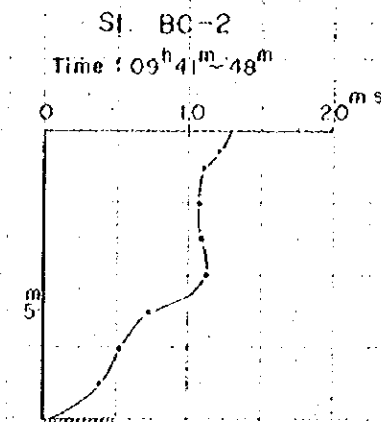
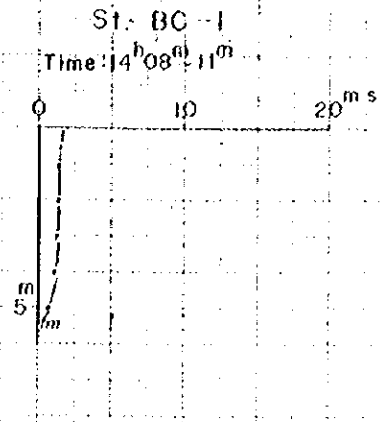
Vertical Distribution of Current Velocity

Date of survey : Oct. 4, 1973



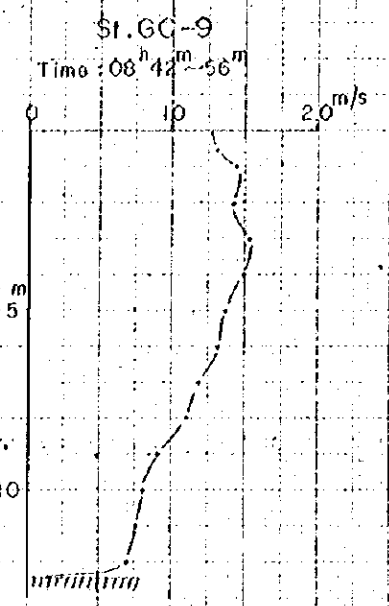
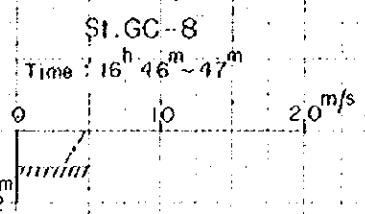
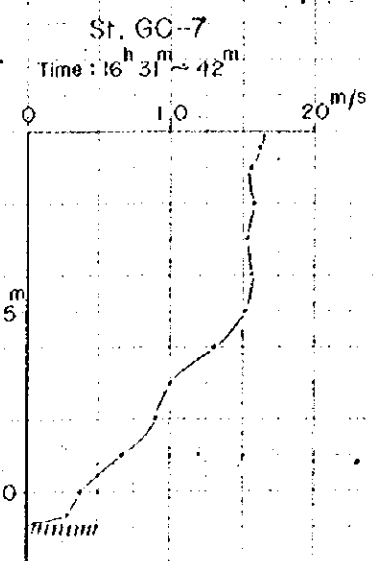
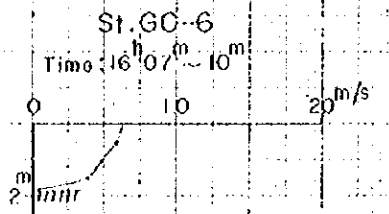
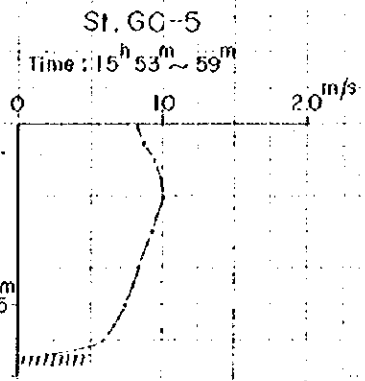
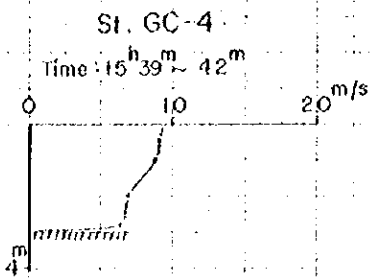
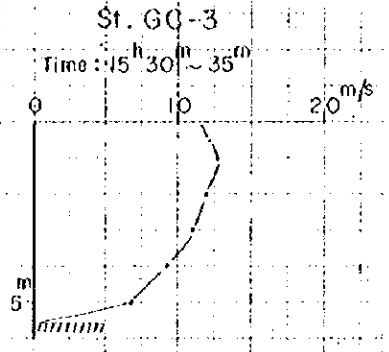
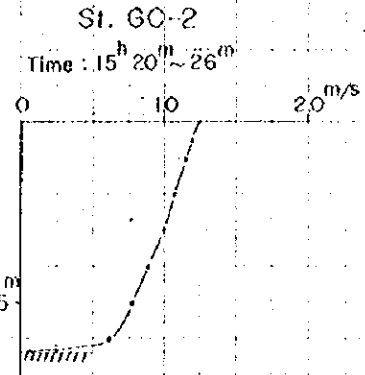
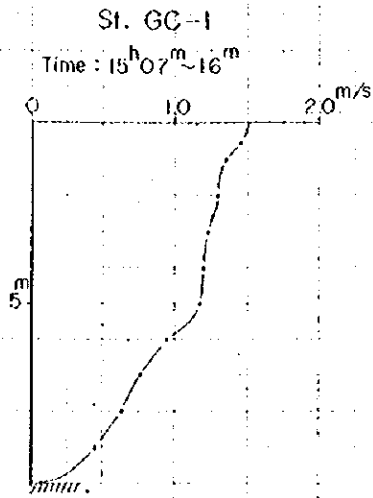
Vertical Distribution of Current Velocity

Date of survey : Sept. 11, 1973



Vertical Distribution of Current Velocity

Date of survey : Oct. 17, 1973



Records of Current Measurements

Survey Area: Sirajzani area.

Date of Survey: 24 Sept., 1973

St. S.C. - 1

Depth	Vel.	Dir.
m		
0.5	1.58	198
1	1.59	196
2	1.40	192
3	1.37	198
4	1.32	198
5	1.21	199
6	1.01	195
7	0.91	201

(12^h-17^m~12^h-20^m)

St. S.C. - 2

Depth	Vel.	Dir.
m		
0.5	1.92	176
1	1.96	176
2	2.03	176
3	1.93	182
4	1.92	178
5	1.41	172
6	1.55	190
7	1.43	195
8	1.22	193
9	1.23	201
10	1.13	195
12	1.02	190
14	0.94	189

(09^h-41^m~09^h-53^m)

St. S.C. - 3

Depth	Vel.	Dir.
m		
0.5	1.48	177
1	1.31	175
2	1.38	180
3	1.26	181
4	1.16	178
5	1.13	186
6	0.84	182
7	1.00	183
8	1.00	189
9	0.96	182

(10^h-18^m~10^h-24^m)

St. S.C. - 4

Depth	Vel.	Dir.
m		
0.5	1.58	178
1	1.46	175
2	1.50	170
3	1.43	180
4	1.38	182
5	1.20	180
6	0.83	180
7	0.37	148
8	0.34	145
9	0.24	143

(10^h-43^m~10^h-47^m)

St. S.C. - 5

Depth	Vel.	Dir.
m		
0.5	1.51	200
1	1.45	195
2	1.44	200
3	1.58	200
4	1.13	200
5	1.08	203
6	0.80	210
7	0.64	209

(10^h-55^m~10^h-58^m)

St. S.C. - 6

Depth	Vel.	Dir.
m		
0.5	1.30	204
1	1.30	201
2	1.32	198
3	1.28	199
4	1.16	198
5	1.13	206
6	1.15	205
7	0.91	211
8	0.77	202
9	0.72	218

(11^h-06^m~11^h-09^m)

St. S.C. - 7

Depth	Vel.	Dir.
m		
0.5	0.26	202

(11^h-16^m)

St. S.C. - 8

Depth	Vel.	Dir.
m		
0.5	0.12	284

(11^h-38^m)

Unit of Velocity: m/sec.

Direction: Angle in degree, cum sole
from Magnetic North

Records of Current Measurements

Survey Area: Nagarbari Area.

Date of Survey: 4 Oct., 1972

St. N.C. - 1

Depth	Vel.	Dir.
0.5	1.00	227
1	0.96	234
2	0.95	238
3	0.84	246
4	0.84	239
5	0.56	233
6		
7		
8		
9		
10		
11		
12		

(08^h-40^m~08^h-45^m)

St. N.C. - 2

Depth	Vel.	Dir.
0.5	1.50	253
1	1.48	254
2	1.43	249
3	1.42	238
4	1.28	237
5	0.86	241
6	0.80	243
7	0.76	240
8	0.75	242
9	0.70	245
10	0.67	244
12	0.56	247
14	0.45	250

(13^h-27^m~13^h-39^m)

St. N.C. - 3

Depth	Vel.	Dir.
0.5	1.34	220
1	1.30	239
2	1.25	237
3	1.13	248
4	1.15	251
5	1.00	258
6	0.90	262
7	0.76	262
8	0.60	270
9		
10		
11		
12		

(09^h-03^m~09^h-11^m)

St. N.C. - 4

Depth	Vel.	Dir.
0.5	1.38	238
1	1.34	242
2	1.23	240
3	1.13	241
4	1.07	247
5	0.49	269
B	0.16	270
7		
8		
9		
10		
11		
12		

(09^h-15^m~09^h-21^m)

St. N.C. - 5

Depth	Vel.	Dir.
0.5	0.26	200
1	0.33	201
B	0.22	203
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

(09^h-20^m~09^h-29^m)

St. N.C. - 6

Depth	Vel.	Dir.
0.5	0.28	210
1	0.27	209
B	0.15	208
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

(10^h-06^m~10^h-18^m)

St. N.C. - 7

Depth	Vel.	Dir.
0.5	0.58	230
1	0.53	228
2	0.48	215
3	0.48	209
4	0.36	203
B	0.15	205
6		
7		
8		
9		
10		
11		
12		

(10^h-14^m~10^h-19^m)

St. N.C. - 8

Depth	Vel.	Dir.
0.5	1.30	216
1	1.32	215
2	1.18	213
3	1.18	212
4	0.96	211
5	0.80	210
6	0.42	212
7		
8		
9		
10		
11		
12		

(10^h-19^m~10^h-25^m)

Unit of Velocity: m/sec.

Direction: Angle in degree, cum sole
from Magnetic North

Records of Current Measurements

Survey Area: Nagarbari area.

Date of Survey: 4 Oct., 1973

St. W.C. - 9			St. H.C. - 10			St. W.C. - 11			St.		
Depth	Vel.	Dir.	Depth	Vel.	Dir.	Depth	Vel.	Dir.	Depth	Vel.	Dir.
0.5	0.33	198	0.5	0.29	201	0.5	1.40	219	0.5		
1			1	0.20	202	1	1.18	238	1		
2			2			2	1.13	239	2		
3			3			3	1.16	232	3		
4			4			4	1.18	242	4		
5			5			5	1.13	230	5		
6			6			6	1.08	228	6		
7			7			7	1.07	228	7		
8			8			8	1.03	183	8		
9			9			9	1.18	189	9		
10			10			10	0.80	186	10		
11			11			11	0.75	183	11		
12			12			12			12		

(10^h-35^m) (10^h-50^m~10^h-51^m) (11^h-03^m~11^h-15^m)

St.			St.			St.			St.		
Depth	Vel.	Dir.	Depth	Vel.	Dir.	Depth	Vel.	Dir.	Depth	Vel.	Dir.
0.5			0.5			0.5			0.5		
1			1			1			1		
2			2			2			2		
3			3			3			3		
4			4			4			4		
5			5			5			5		
6			6			6			6		
7			7			7			7		
8			8			8			8		
9			9			9			9		
10			10			10			10		
11			11			11			11		
12			12			12			12		

Unit of Velocity: m/sec.

Direction: Angle in degree, cum sole
from Magnetic North

Records of Current Measurements

Survey Area: Bahadurabad area.

Date of Survey: 11 Oct., 1973

St. B.C. - 1

Depth	Vel.	Dir.
0.5	0.16	198
1	0.14	219
2	0.14	221
3	0.13	214
4	0.12	223
5	0.08	228
6		
7		
8		
9		
10		
11		
12		

(14^h-08^m~14^h-11^m)

St. B.C. - 2

Depth	Vel.	Dir.
0.5	1.23	260
1	1.13	251
2	1.08	242
3	1.10	224
4	1.13	222
5	0.74	232
6	0.54	223
7	0.40	230
8		
9		
10		
11		
12		

(09^h-41^m~09^h-48^m)

St. B.C. - 3

Depth	Vel.	Dir.
0.5	1.35	209
1	1.38	206
2	1.33	204
3	1.29	205
4	1.19	206
5	1.11	202
6	1.01	200
7	0.79	201
8		
9		
10		
11		
12		

(14^h-23^m~14^h-30^m)

St. B.C. - 4

Depth	Vel.	Dir.
0.5	1.59	180
1	1.53	189
2	1.39	191
3	1.35	185
4	1.03	187
5	0.84	200
6	0.70	191
7	0.65	175
8		
9		
10		
11		
12		

(14^h-34^m~14^h-38^m)

St. B.C. - 5

Depth	Vel.	Dir.
0.5	1.32	171
1	1.30	174
2	1.18	170
3	1.08	169
4	1.00	165
5	0.75	151
6	0.57	164
7		
8		
9		
10		
11		
12		

(14^h-42^m~14^h-47^m)

St. B.C. - 6

Depth	Vel.	Dir.
0.5	0.60	191
1	0.59	194
2	0.60	190
3	0.60	190
4	0.56	189
5	0.47	191
6	0.40	190
7	0.34	188
8	0.11	188
9		
10		
11		
12		

(14^h-50^m~14^h-56^m)

St. B.C. - 7

Depth	Vel.	Dir.
0.5	0.98	224
1	0.88	232
2	0.89	240
3	0.76	221
4		
5		
6		
7		
8		
9		
10		
11		
12		

(14^h-58^m~15^h-01^m)

St.

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Unit of Velocity: m/sec.

Direction: Angle in degree, cum sole
from Magnetic North

Records of Current Measurements

Survey Area: Gabargaon Area.

Date of Survey: 17 Oct., 1973

St. G.C. - 1

Depth	Vel.	Dir.
0.5	1.46	103
1	1.35	121
2	1.30	127
3	1.23	128
4	1.20	128
5	1.18	129
6	0.94	129
7	0.76	141
8	0.64	139
9	0.45	136
10		
11		
12		

(15^h-07^m~15^h-16^m)

St. G.C. - 2

Depth	Vel.	Dir.
0.5	1.20	90
1	1.15	93
2	1.07	97
3	0.99	100
4	0.88	98
5	0.77	102
6	0.60	101
7		
8		
9		
10		
11		
12		

(15^h-20^m~15^h-26^m)

St. G.C. - 3

Depth	Vel.	Dir.
0.5	1.22	93
1	1.27	93
2	1.18	90
3	1.10	92
4	0.92	89
5	0.67	99
6		
7		
8		
9		
10		
11		
12		

(15^h-30^m~15^h-35^m)

St. G.C. - 4

Depth	Vel.	Dir.
0.5	0.92	128
1	0.88	131
2	0.70	138
3	0.65	135
4		
5		
6		
7		
8		
9		
10		
11		
12		

(15^h-39^m~15^h-42^m)

St. G.C. - 5

Depth	Vel.	Dir.
0.5	0.86	109
1	0.94	120
2	1.00	120
3	0.92	121
4	0.83	122
5	0.73	119
6	0.58	120
7		
8		
9		
10		
11		
12		

(15^h-53^m~15^h-59^m)

St. G.C. - 6

Depth	Vel.	Dir.
0.5	0.58	140
1	0.47	152
1.5	0.40	158
1.8	0.00	-
4		
5		
6		
7		
8		
9		
10		
11		
12		

(16^h-07^m~16^h-10^m)

St. G.C. - 7

Depth	Vel.	Dir.
0.5	1.62	145
1	1.56	147
2	1.57	156
3	1.53	161
4	1.56	161
5	1.51	161
6	1.30	160
7	1.00	157
8	0.90	160
9	0.67	152
10	0.36	142
11	0.28	127
12		

(16^h-31^m~16^h-42^m)

St. G.C. - 8

Depth	Vel.	Dir.
0.5	0.40	131
0.7	0.32	130
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

(16^h-46^m~16^h-47^m)

Unit of Velocity: m/sec.

Direction: Angle in degree, cum sole
from Magnetic North

Records of Current Measurements

Survey Area: Gabargaon Area.

Date of Survey: 17 Oct., 1973

St. G.C. - 9

Depth	Vel.	Dir.
0.5	1.30	101
1	1.44	100
2	1.42	152
3	1.53	152
4	1.48	148
5	1.37	134
6	1.32	129
7	1.18	113
8	1.10	122
9	0.90	120
10	0.80	111
11	0.75	130
B	0.70	111

St. G.C. - 2

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

St. G.C. - 3

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

St. G.C. - 4

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

(08^h 42^m 08^s 56^m)

St.

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

St.

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

St.

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

St.

Depth	Vel.	Dir.
0.5		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Unit of Velocity: m/sec.

Direction: Angle in degree, cum sole
from Magnetic North

