



>kj [kM l jdkj
GOVERNMENT OF JHARKHAND

t y l l k/ku foHkkx
WATER RESOURCES DEPARTMENT

WATER YEAR BOOK (REVISED)-2012

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: ikd.k] lex ;ktuk ,o t y foKku]
jkphA

CHIEF ENGINEER
DESIGN, MASTER PLANNING AND HYDROLOGY,
RANCHI

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iLrkouk

Hkkjrh; ekle foKku foHkkx ½ftld {k=h; dk;ky; ,o o/k'kkykvk dk tky ij n'k e Qyk gvk g½ d }kjk ekle foKkuh; vkdMk ;Fkk o"kkikr] rkieku] vknrk] ok; ox ,o fn'kk] /ki jgu dh vof/k vkfn dk ekiu ,d=hdj.k ,o HkMkj.k fd;k tkrk gA blh rjg ty foKkuh; vkdMk ¼unh tyLrj ,o ty cgko½ dk ekiu ,o ,d=hdj.k dUnh; ty vk;kx ,o jkT; ljdkj d ty l l/ku foHkkxk }kjk fd;k tkrk gA

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o"k 2012&13 e tyh; vkdMk d ekiu ,o ,d=hdj.k dk dk; 16 tu^ 2012 l 30 uoEcj 2012 dh vof/k e fd;k x;kA bld vk/kkj ij gh oÙkeku okVj b;j cd 2012&13 r;kj fd;k x;k FkkA

e[; vfHk;r] ;ktuk] vk;ktu ,o ekuVfjx] jkph d i=k d 275 fnukd 02-03-13 }kjk =fV jfgr MkVv Web site ij Upload dju lc/kh iLrko ekxk x;kA tkp d Øe e Water year book 2012 d tyJko x.kuk e dkQh folxfr;k ikb xBA Basic data d vu:lk Excel Computer }kjk tyJko dh x.kuk dj Water year book 2012 dk iujhf{kr dj fn;k x;k gA tyJko (Velocity) dh x.kuk i.kr;k ekuoh; fd;k tkrk gA vr% tyJko e folxfr;k (10-25%) jguk rkfd gA

bl dk; dk eÙk :i nu e lex ;ktuk] vUo"kk ,o ty foKku vpy&1] jkph ,o vpy&2] no?kj d inkf/kdkfj;k ,o depkfj;k dk egÙoi.k ;kxnu jgk gA

gj lEHko i;k l d ckotn Hkh idk'ku e dN =fV;k jg x;h gxhA ty oKkfudk] d'f'k oKkfudk ,o vfHk;rkvk l mudh fof'k"V vfHk;fDr;k ,o l>kok dk lknj vkef=r fd;k tkrk g rkfd Hkfo"; e idkf'kr gku oky ^ okVj b;j cd ^ e rRlc/kh l/kkj dk 'kkfey dj bl T;knk mi;kxh cuk;k tk l dA

¼b0 luhy dekj flUgk½
dk;ikydvfHk;r
lex ;ktuk] vUo'k.k ,o ty
foKku ieMy l0&2] jkphA

¼b0 je.kukFk yky nk l½
v/kh{k.k vfHk;r
lex ;ktuk] vUo'k.k ,o ty
foKku vpy&1] jkphA

¼b0 l j'k ik loku½
e[; vfHk;r
:ikd.k] lex ;ktuk ,o
ty foKku] jkphA

SUBERNAREKHA - BASIN

Basin
River
Site

Subern Rekha
Subern Rekha
Muri

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

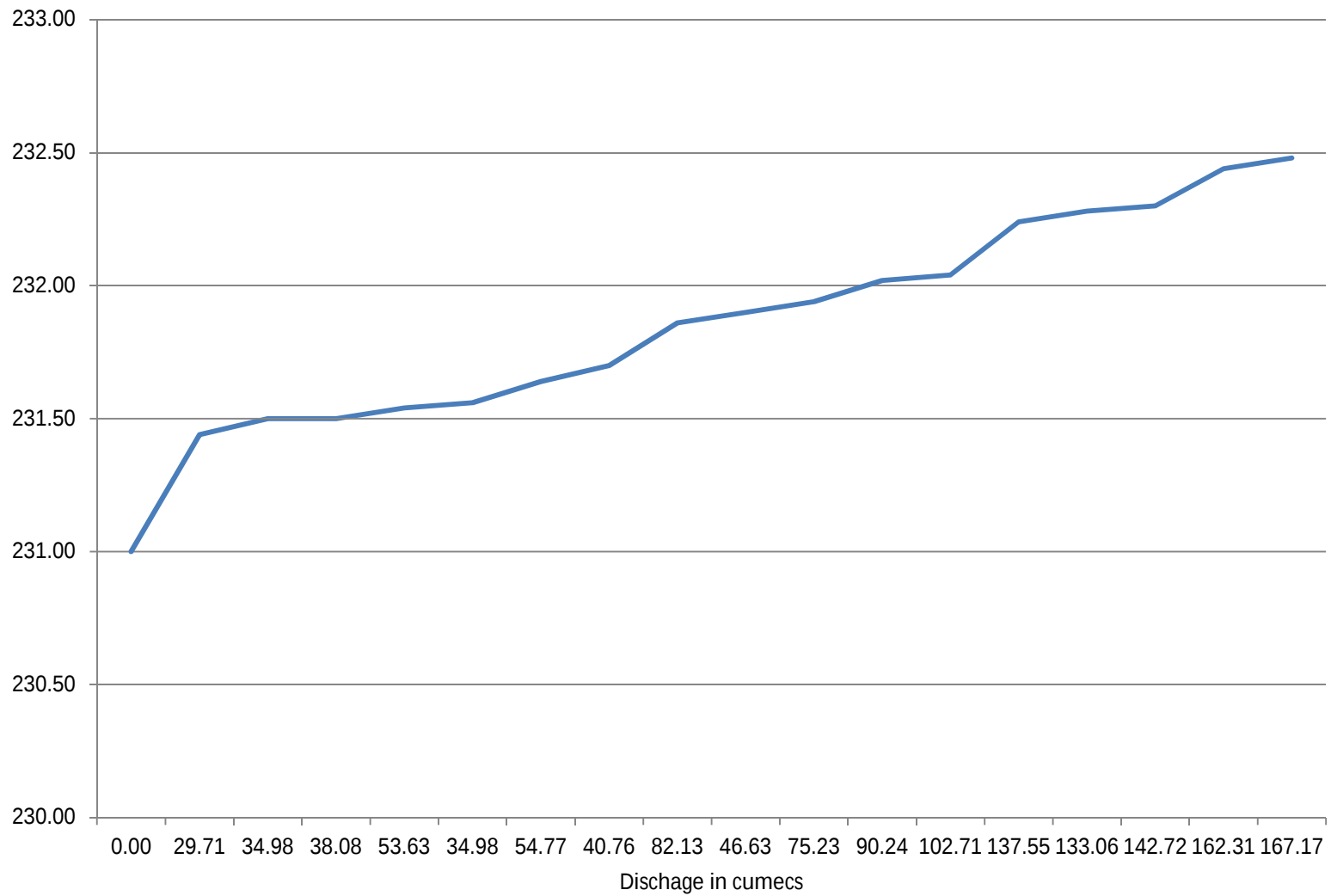
231

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			231.44	29.71	231.68	53.63	232.24	133.06	232.30	142.72	231.86	75.23
2			231.44	29.71	231.64	46.63	231.98	94.14	232.30	142.72	231.86	75.23
3			231.42	28.54	231.94	82.76	231.90	79.27	232.30	142.72	231.84	73.82
4			231.44	29.71	232.38	153.78	232.22	131.22	232.28	140.83	231.88	77.84
5			231.54	37.25	232.04	98.89	232.26	134.89	232.32	144.61	231.90	90.24
6			231.60	44.55	232.22	129.65	232.46	165.20	231.98	98.06	232.12	114.00
7			231.50	34.98	232.34	149.91	232.58	181.01	231.92	91.87	231.96	96.41
8			231.52	36.31	232.06	100.48	232.42	161.23	232.02	102.71	231.80	64.94
9			231.55	37.71	231.80	66.05	232.36	155.30	231.94	93.50	231.60	44.10
10			231.56	40.76	231.86	75.23	232.52	172.09	232.00	101.04	231.60	44.10
11			231.50	34.98	231.70	54.77	232.48	167.17	232.02	102.71	231.56	40.76
12			231.48	33.28	231.96	92.56	232.44	162.31	232.00	101.04	231.50	34.98
13			231.46	30.89	231.88	77.24	232.38	145.92	231.98	98.06	231.56	40.76
14			231.50	34.98	233.00	242.95	232.50	170.09	231.86	75.23	231.50	34.98
15			231.58	43.07	232.32	142.93	232.42	161.23	232.00	101.04	231.48	33.28
16	231.42	28.40	231.66	52.00	232.04	99.58	232.42	161.23	231.96	96.41	231.48	33.28
17	231.42	28.40	231.58	43.07	232.16	121.19	232.60	183.03	231.90	90.24	231.50	34.98
18	231.42	28.40	231.54	37.25	232.18	122.96	232.60	183.03	231.92	92.49	231.50	34.98
19	231.46	32.02	231.58	43.07	232.18	122.96	232.48	167.17	231.86	75.23	231.56	40.76
20	231.48	33.28	231.70	54.77	232.28	137.55	232.50	169.16	231.96	96.41	231.50	34.98
21	231.52	36.31	231.94	82.13	232.28	137.55	232.44	162.31	231.90	90.24	231.50	34.98
22	231.68	54.12	231.70	54.77	232.26	134.89	232.40	159.26	231.86	75.23	231.46	32.02
23	231.80	68.82	231.70	54.77	232.26	134.89	232.54	174.08	231.96	95.77	231.46	32.02
24	231.68	54.12	231.62	45.59	232.26	134.89	232.38	157.27	231.90	90.24	231.60	44.10
25	231.54	38.08	231.56	40.76	232.32	142.93	232.36	155.30	231.60	44.10	231.64	46.63
26	231.52	37.13	231.62	45.59	232.28	137.55	232.34	147.35	231.78	63.16	231.64	46.63
27	231.48	33.28	231.74	57.59	232.26	134.89	232.34	147.35	231.80	64.94	231.64	46.63
28	231.46	32.02	231.76	58.74	232.26	134.89	232.30	142.72	231.76	61.94	231.62	45.59
29	231.46	32.40	231.72	55.92	232.24	133.06	232.32	144.61	231.78	63.16	231.64	46.63
30	231.44	29.71	231.68	54.12	232.24	133.06	232.32	144.61	231.90	90.24	231.64	46.63
31			231.76	62.48	232.24	133.06			231.92	91.87		
Max		68.82	82.13		242.95		183.03		144.61		114.00	
Min		28.40	28.54		46.63		79.27		44.10		32.02	

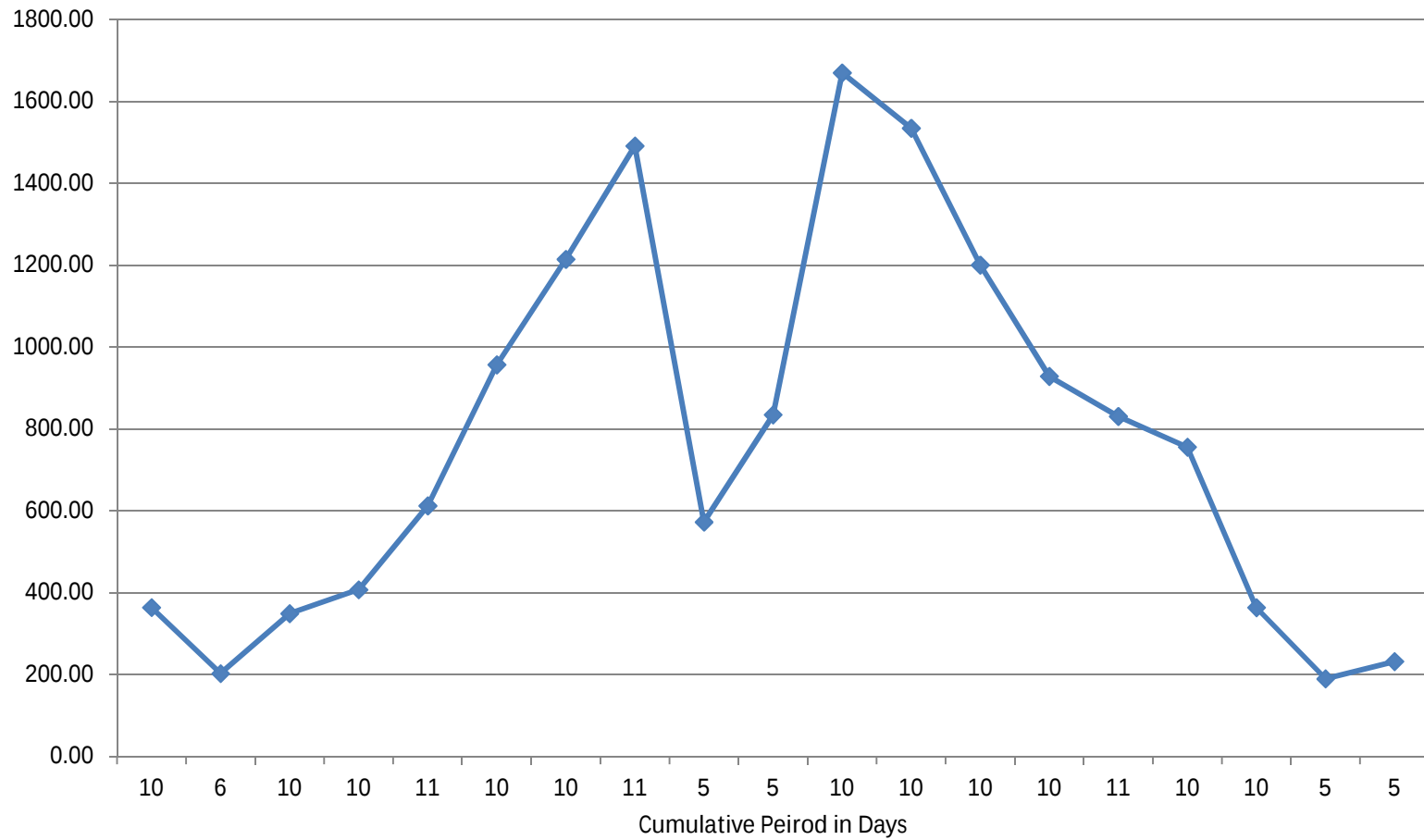
Discharge variation due to manual velocity measurement,

Max 242.95
Min 28.40

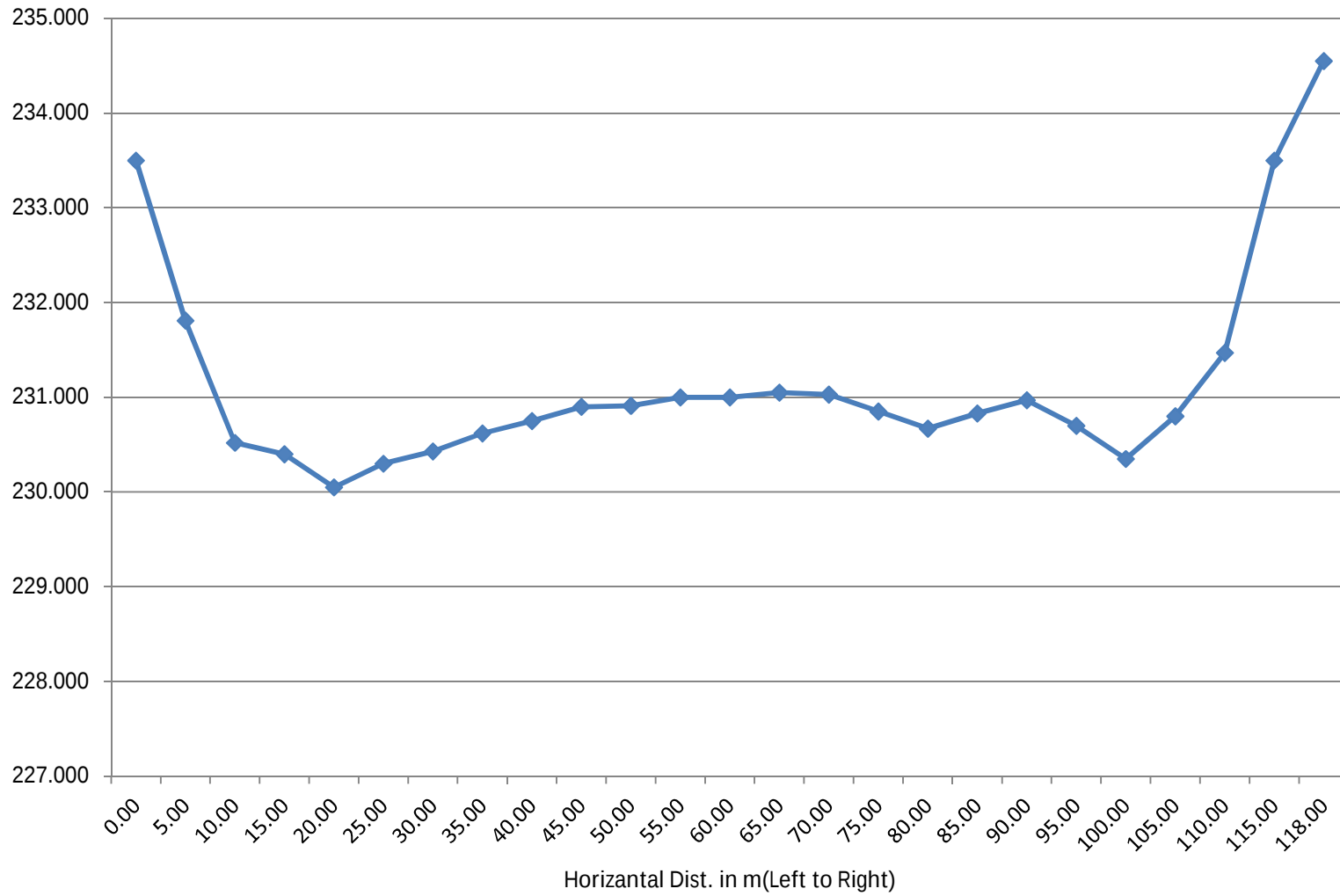
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Subernarekha
Subernarekha
Bahra gora

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO, -

Zero of the Gauge
Unit of Water Level
Unit of Discharge

M
Cum

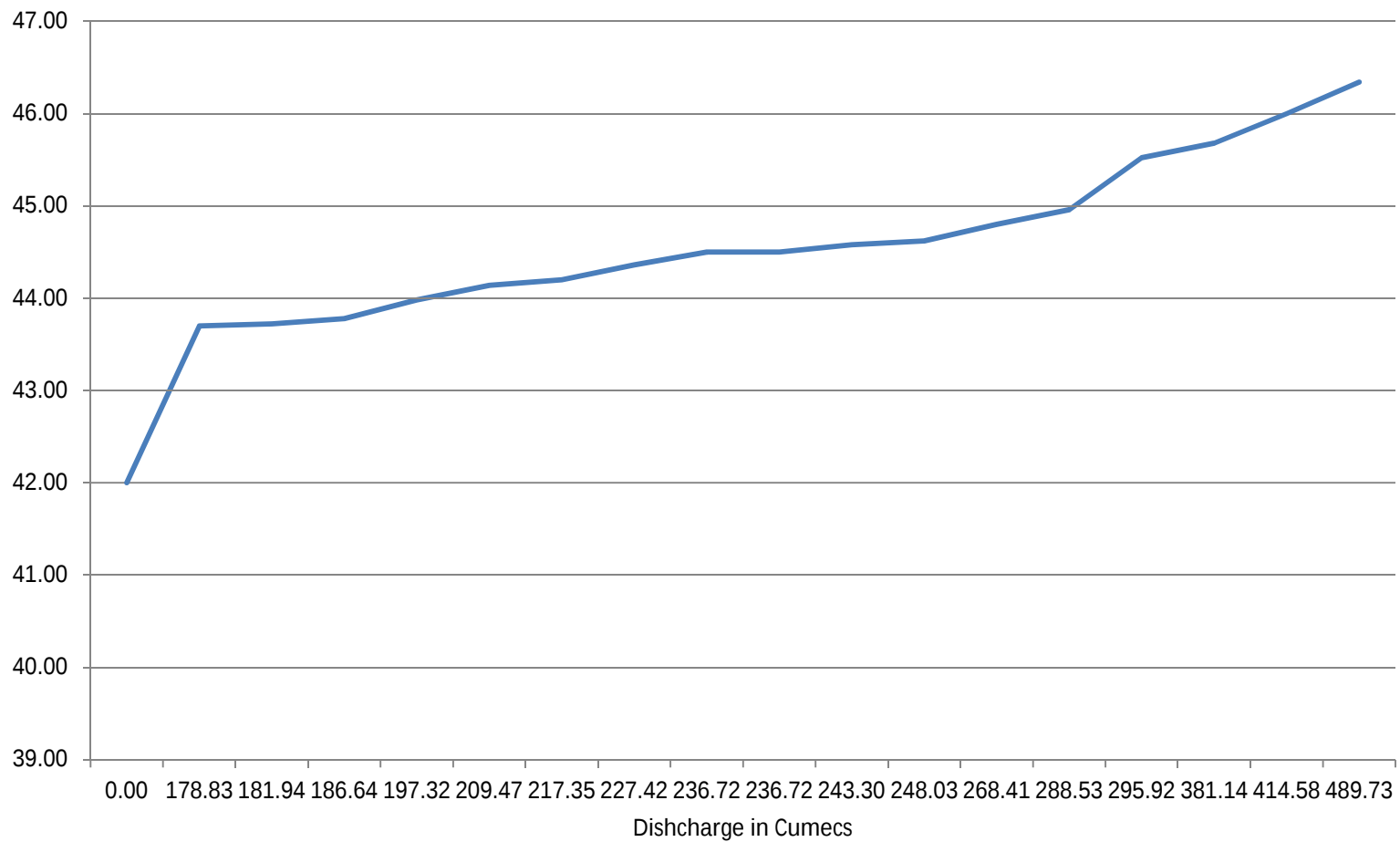
42

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			43.98	197.32	45.10	295.92	44.62	248.03	44.50	236.72	43.72	181.94
2			43.94	195.56	44.84	270.43	44.58	243.30	44.38	231.04	43.72	181.94
3			43.88	183.35	44.62	245.21	44.52	237.66	44.32	225.55	43.72	181.94
4			43.82	181.07	45.06	293.81	44.46	234.82	44.28	218.41	43.74	182.72
5			43.78	174.83	45.52	351.23	44.80	242.15	44.60	244.25	43.76	183.50
6			44.00	195.72	45.78	380.93	45.80	396.15	44.24	216.59	43.80	187.43
7			44.18	216.43	45.40	337.74	46.52	512.59	44.54	238.61	43.80	187.43
8			44.20	217.35	45.34	334.31	47.18	594.59	44.38	231.04	43.82	188.22
9			44.40	229.29	45.04	292.75	46.80	548.63	44.40	229.29	44.38	228.35
10			44.36	224.74	44.76	260.60	46.38	493.06	44.48	235.77	44.38	228.35
11			44.20	217.35	44.80	268.41	46.34	489.73	44.50	236.72	44.36	227.42
12			43.86	153.76	45.58	368.12	45.88	405.61	44.48	235.77	44.30	221.97
13			44.30	221.97	45.22	327.44	46.14	465.70	44.42	230.22	44.60	244.25
14			44.20	217.35	45.20	326.30	46.14	465.70	44.40	229.29	43.86	192.20
15			44.40	229.29	47.34	617.69	45.86	400.60	44.44	233.88	43.86	192.20
16	43.46	140.96	44.12	213.65	47.96	696.79	46.46	503.62	44.30	221.97	43.38	183.81
17	43.46	140.96	44.40	229.29	46.16	430.24	47.34	617.69	44.26	217.50	43.78	186.64
18	43.88	183.35	44.18	216.43	45.00	290.64	47.18	598.96	44.24	219.20	43.78	186.64
19	44.96	288.53	44.54	238.61	44.94	287.47	46.08	460.78	44.20	217.35	43.76	185.85
20	44.18	216.43	44.36	224.74	46.14	428.74	45.90	410.64	44.16	212.94	43.90	193.80
21	43.98	197.32	44.58	243.30	46.00	414.58	45.68	381.14	44.14	209.47	43.78	186.64
22	43.82	181.07	44.40	229.29	45.64	364.99	45.78	394.78	44.08	206.76	43.76	185.85
23	44.18	216.43	44.50	231.21	45.82	397.63	45.80	396.15	43.96	196.44	43.76	185.85
24	45.16	317.78	44.32	220.24	45.58	361.42	46.16	471.04	43.90	193.80	43.74	182.72
25	44.96	288.53	44.06	210.88	45.38	343.07	45.62	370.54	43.86	192.20	43.74	182.72
26	44.94	287.47	44.00	195.72	45.16	305.32	45.12	303.16	43.84	191.40	43.72	181.94
27	44.20	217.35	43.90	188.96	45.20	326.30	45.00	293.67	43.80	189.80	43.72	181.94
28	44.18	216.43	44.40	229.29	45.16	305.32	44.66	247.12	43.78	184.28	43.72	181.94
29	44.12	211.11	44.60	241.45	44.96	288.53	44.40	231.99	43.74	182.72	43.72	181.94
30	44.06	200.84	44.40	229.29	44.84	276.31	44.36	230.09	43.74	182.72	43.70	178.83
31			44.58	240.50	44.72	258.62			43.72	181.94		
317.78			243.30		696.79		617.69		244.25		244.25	
140.96			153.76		245.21		230.09		181.94		178.83	

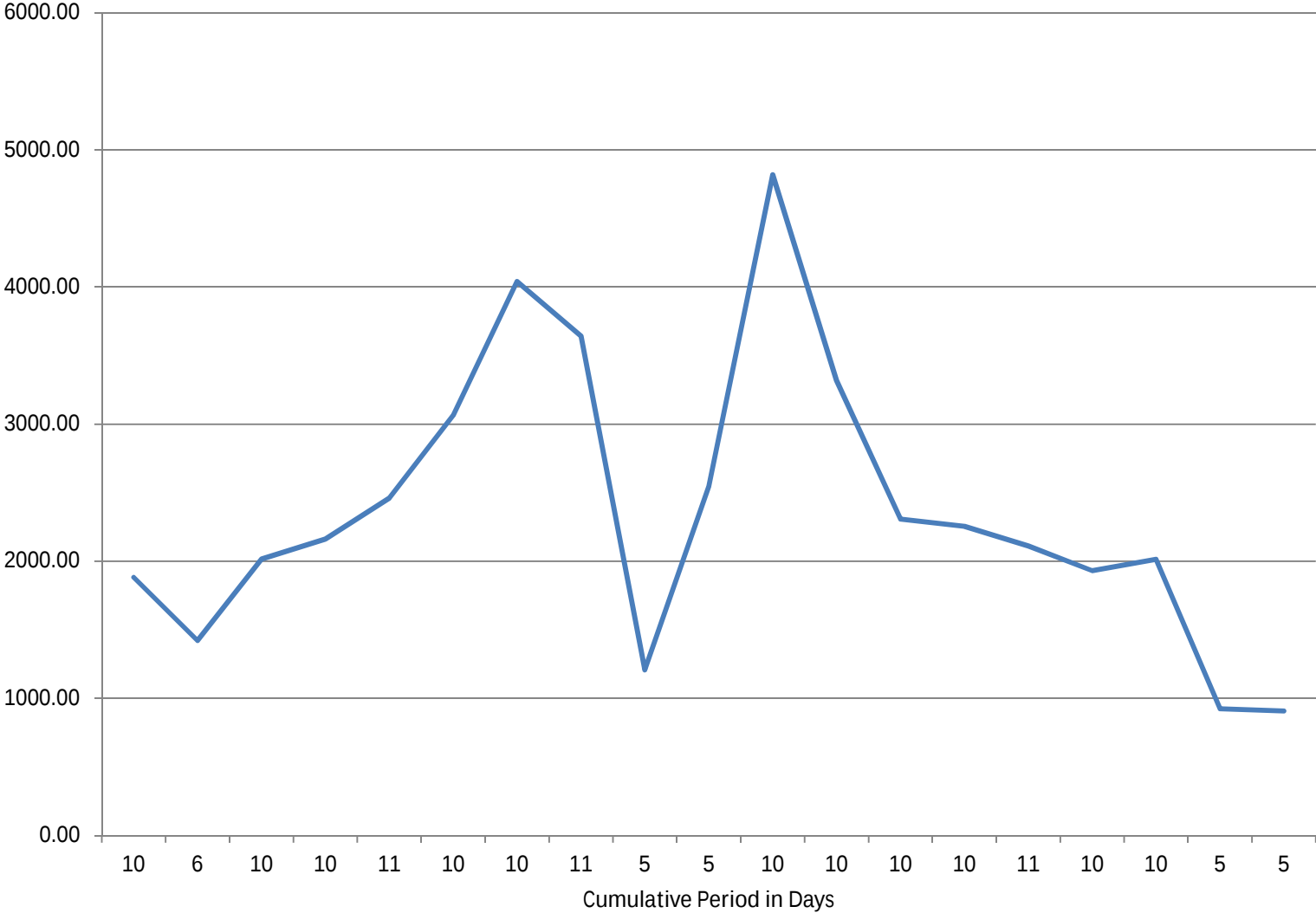
Discharge variation due to manual velocity measurement,

Max 696.79
Min 140.96

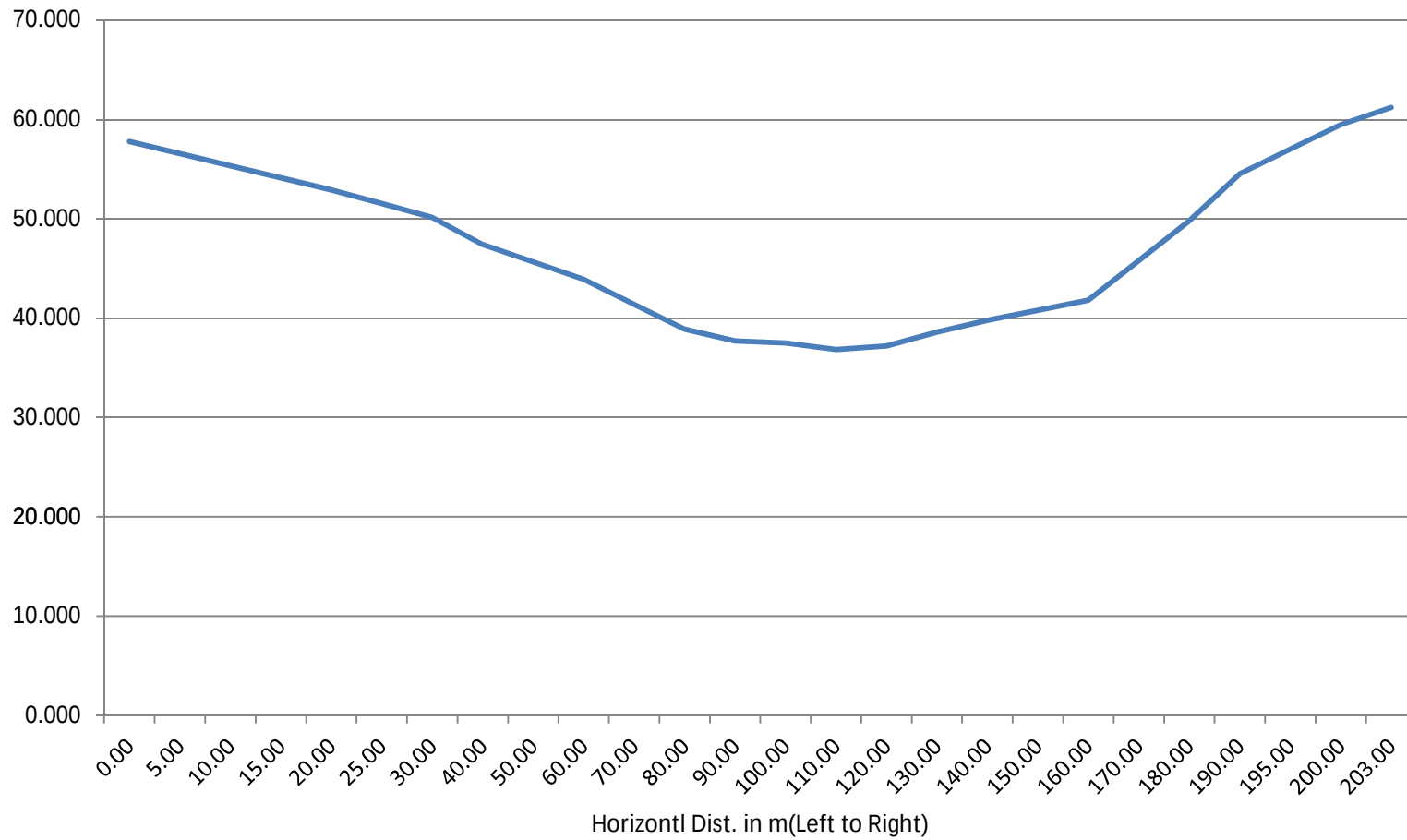
Stage Graph



Storm Hydrograph



C/S of River



Basin Suberna Rekha Water Level Data Zero of the Gauge 577.12
River Karkari 2012-13 Unit of Water Level M
Site Tamar Catchment area - Sqkm Unit of Discharge Cum
TOPO SHEET NO. -

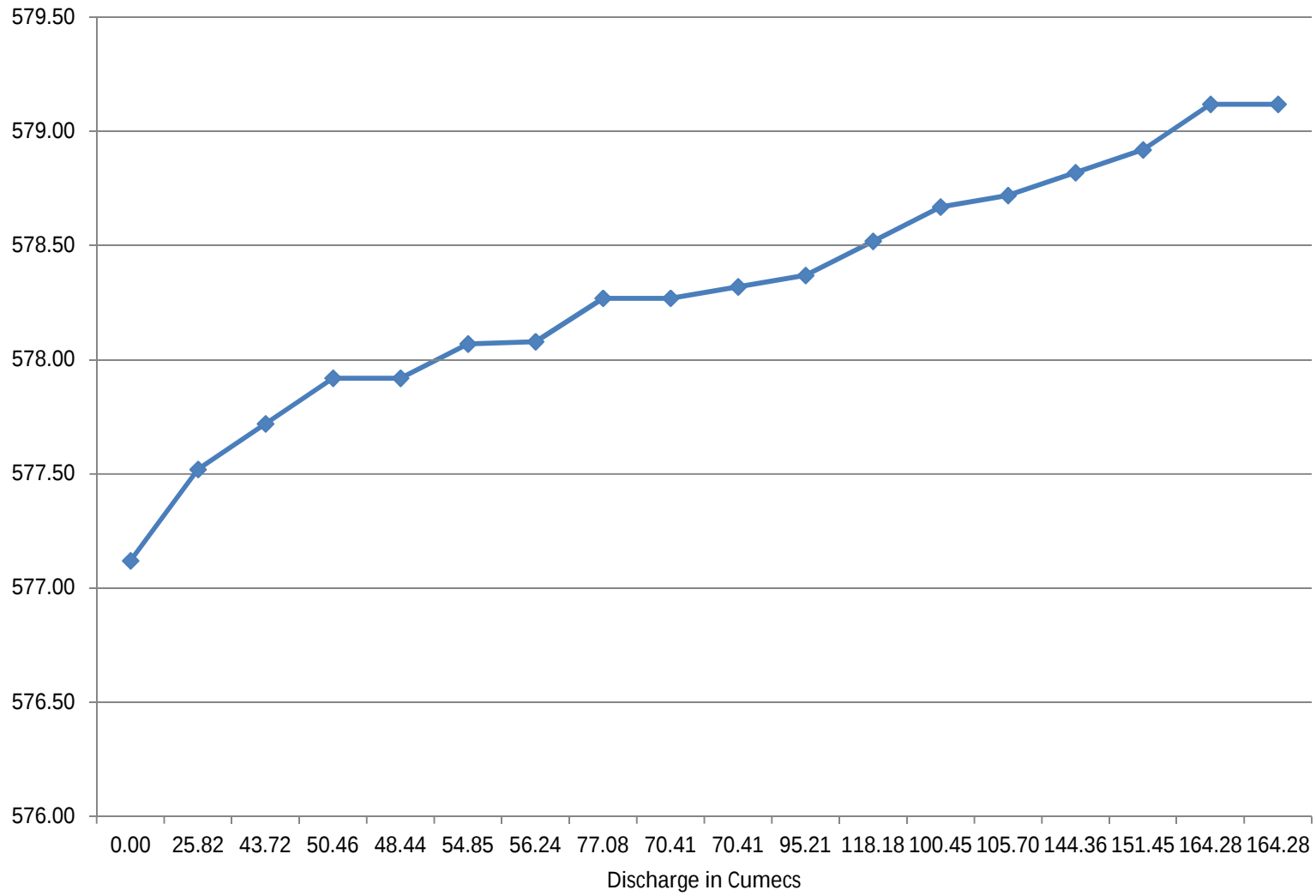
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			577.52	25.82	578.72	118.18	578.92	151.45	578.67	105.70	578.08	56.24
2			577.52	25.82	578.62	107.82	578.87	147.89	578.62	102.15	578.04	53.97
3			577.92	50.46	578.62	107.82	578.77	129.55	578.57	98.65	578.12	59.69
4			578.02	54.45	578.47	91.17	579.02	157.01	578.52	95.21	578.22	67.53
5			578.92	79.71	578.37	85.25	579.42	189.83	578.52	95.21	578.52	95.21
6			577.82	43.73	578.32	82.67	579.12	164.28	578.47	90.50	578.52	95.21
7			577.92	50.46	578.42	88.52	578.87	137.72	578.42	87.21	578.42	87.21
8			578.12	58.56	578.82	104.43	578.82	144.36	578.52	95.21	578.37	78.89
9			578.12	58.56	579.92	303.66	578.72	100.45	578.57	98.65	578.32	75.84
10			578.02	54.45	579.32	192.33	578.72	100.45	578.52	95.21	578.32	75.84
11			577.92	50.46	579.12	164.28	578.82	144.36	578.52	95.21	578.27	70.41
12			577.87	46.06	578.92	151.45	578.82	144.36	578.47	90.50	578.27	70.41
13			577.82	43.73	579.32	192.33	578.72	100.45	578.47	90.50	578.22	67.53
14			578.12	58.56	580.32	346.37	579.92	283.42	578.42	87.21	578.22	67.53
15			578.12	58.56	580.22	328.69	579.12	164.28	578.42	87.21	578.17	62.39
16	577.42	20.38	578.02	54.45	579.12	164.28	578.97	159.10	578.37	78.89	578.17	62.39
17	577.42	20.38	577.92	50.46	578.87	107.20	579.22	173.43	578.32	75.84	578.17	62.39
18	577.42	20.38	577.87	46.06	578.72	100.45	579.12	164.28	578.32	75.84	578.12	59.69
19	577.42	20.38	577.82	43.73	578.92	151.45	578.92	151.45	578.37	78.89	578.12	59.69
20	577.42	20.38	578.32	77.08	578.62	117.75	578.92	151.45	578.32	75.84	578.12	59.69
21	577.62	30.13	578.32	77.08	578.72	100.45	579.12	164.28	578.27	70.41	578.07	54.85
22	577.52	25.82	578.12	58.56	578.72	100.45	579.02	148.74	578.20	66.86	578.07	54.85
23	577.52	25.82	578.12	58.56	578.77	102.44	578.92	151.45	578.22	67.53	578.02	52.32
24	577.82	46.58	578.37	85.25	578.82	104.43	578.92	151.45	578.16	64.38	578.02	52.32
25	577.72	43.72	578.42	88.52	578.92	151.45	578.82	144.36	578.16	64.38	578.02	52.32
26	577.62	30.13	578.72	118.18	578.82	144.36	578.72	100.45	578.12	59.69	578.02	52.32
27	577.62	30.13	578.62	107.82	578.77	140.85	578.67	97.74	578.12	59.69	577.97	50.88
28	577.60	29.74	579.42	208.82	578.72	100.45	578.62	107.82	578.12	59.69	577.97	50.88
29	577.57	28.99	579.62	233.95	578.62	117.75	578.57	98.65	578.10	57.95	577.97	50.88
30	577.57	28.99	579.32	192.33	578.82	144.36	578.72	119.65	578.07	55.94	577.92	48.44
31			579.12	164.28	578.92	151.45			578.07	55.94		

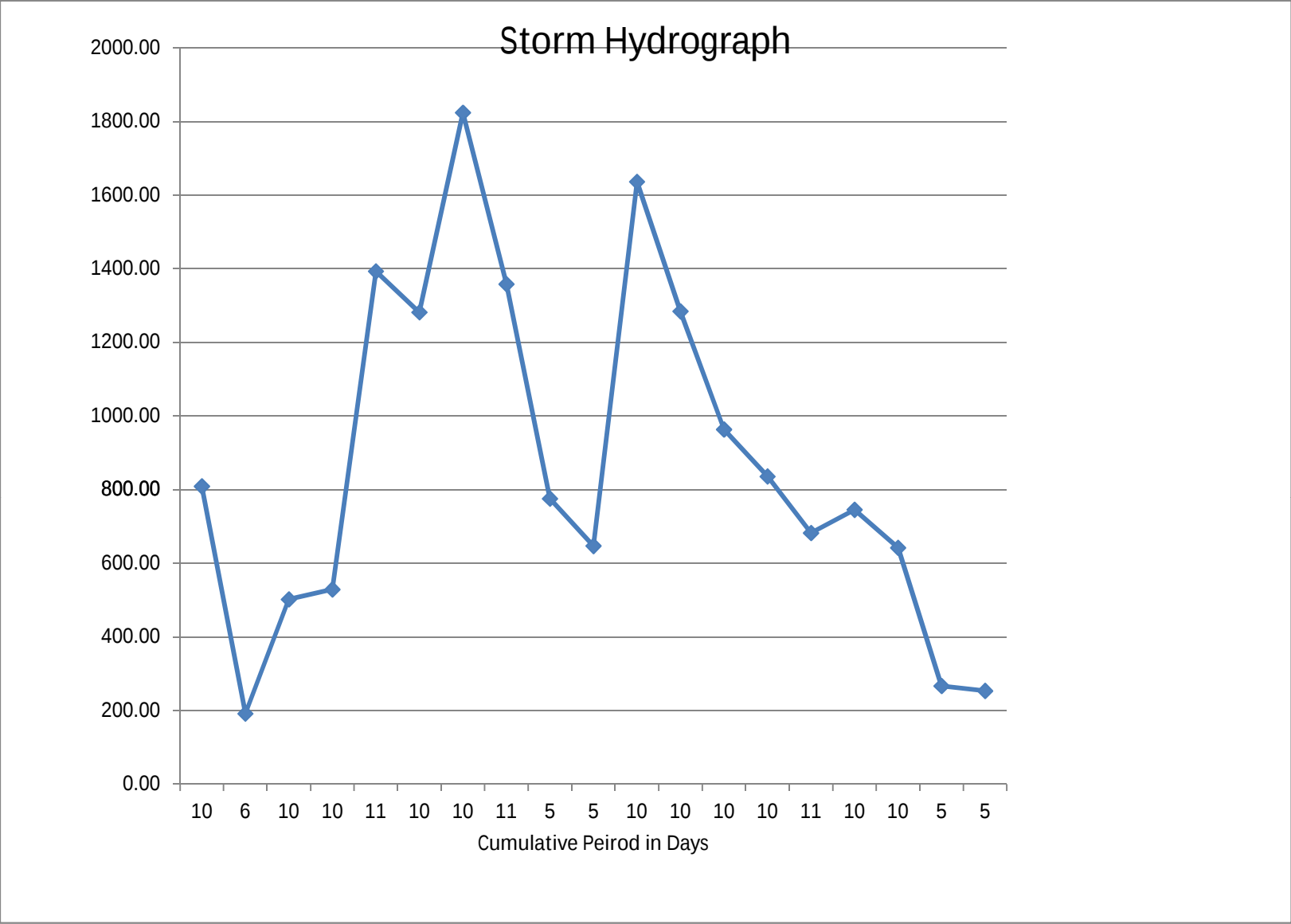
Max 46.58 233.95 346.37 283.42 105.70 95.21
Min 20.38 25.82 82.67 97.74 55.94 48.44

Discharge variation due to manual velocity measurement,

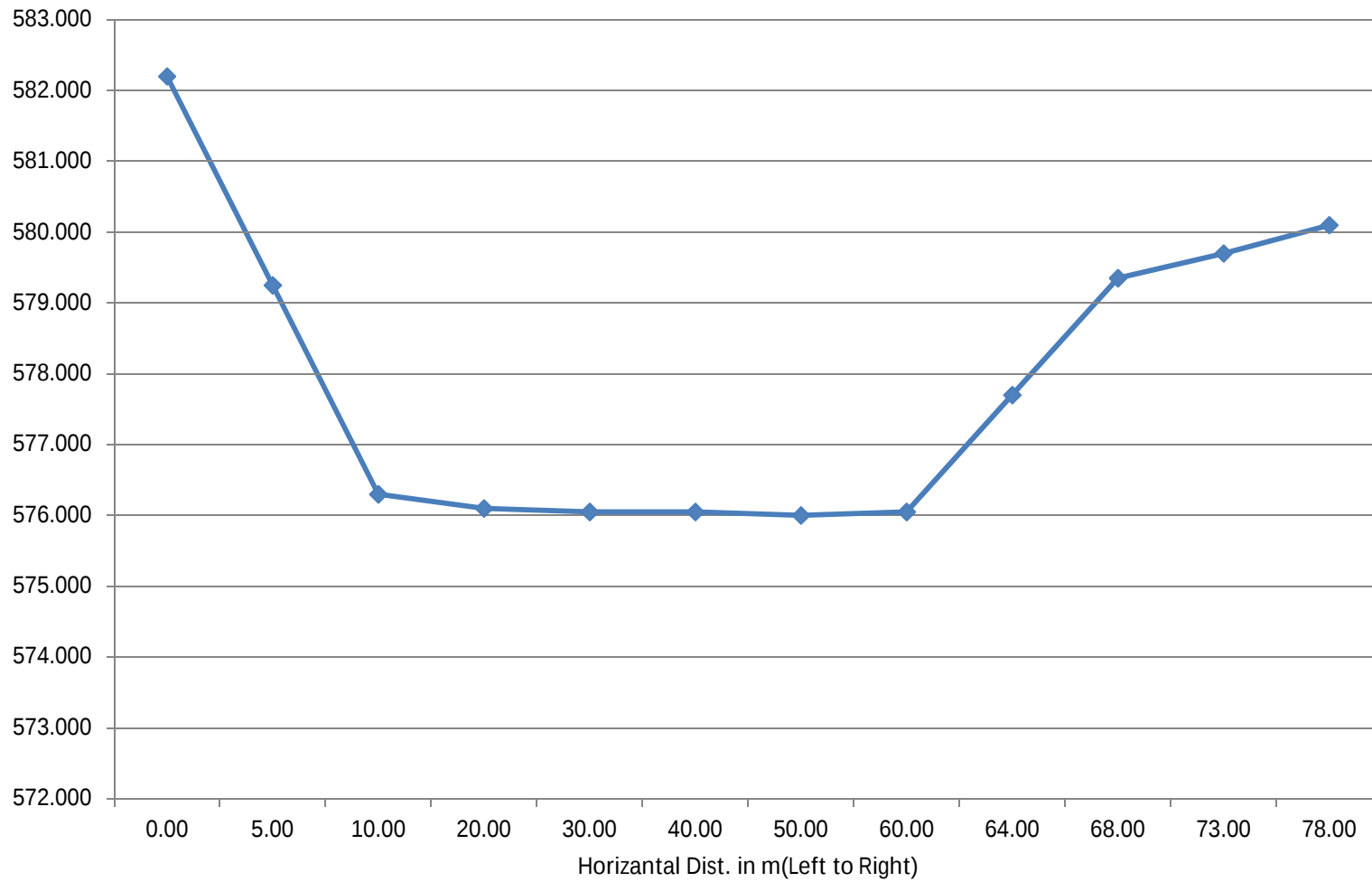
Max 346.37
Min 20.38

Stage Graph





C/S of River



Basin
River
Site

Subern Rekha
Kharkai
Chaliyama

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

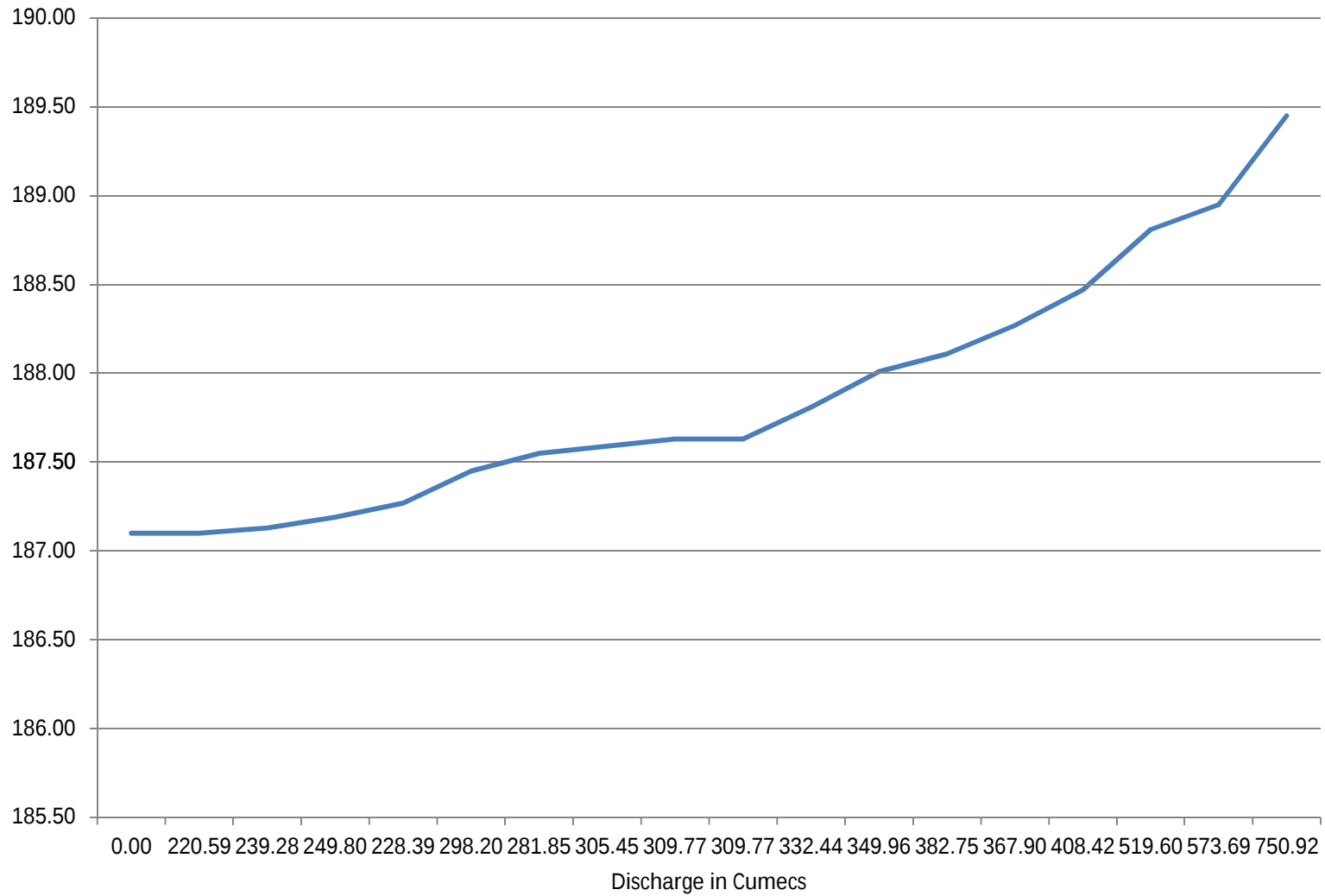
186.95

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			187.19	239.28	187.91	349.96	187.63	309.77	187.59	305.45	187.45	281.85
2			187.23	243.22	187.87	338.99	187.65	311.94	187.53	296.06	187.35	260.50
3			187.25	247.81	187.87	338.99	187.73	323.70	187.55	298.20	187.31	256.46
4			187.25	247.81	187.85	336.80	188.29	410.76	187.67	317.15	187.33	258.48
5			187.41	272.10	188.47	443.40	188.43	438.62	187.75	325.88	187.37	267.98
6			187.25	247.81	188.37	420.08	188.47	443.40	187.69	319.33	187.39	270.04
7			188.41	375.00	188.25	402.44	188.67	472.07	187.63	309.77	187.37	267.98
8			187.79	333.43	188.15	387.33	188.41	436.22	187.55	298.20	187.33	258.48
9			187.77	328.07	187.97	363.37	189.29	689.62	187.55	298.20	187.31	256.46
10			188.01	367.90	188.35	417.75	189.39	735.60	187.57	300.34	187.29	251.80
11			188.01	367.90	188.95	573.69	188.81	519.60	187.63	309.77	187.27	249.80
12			187.85	336.80	189.09	607.41	188.49	449.71	187.57	300.34	187.25	247.81
13			187.62	308.69	188.59	465.97	188.37	420.08	187.57	300.34	187.21	241.25
14			187.67	317.15	188.31	413.09	188.35	417.75	187.65	311.94	187.19	239.28
15			187.83	334.62	188.15	387.33	188.21	397.82	187.83	337.84	187.17	234.78
16	190.95	1558.55	187.95	361.10	189.03	594.13	189.85	967.07	187.69	319.33	187.17	234.78
17	190.45	1289.15	187.85	336.80	188.67	484.39	189.05	597.04	187.59	305.45	187.15	230.32
18	189.65	863.70	187.75	325.88	188.37	420.08	188.59	457.94	187.50	289.97	187.15	230.32
19	188.71	481.28	187.95	361.10	188.79	516.91	188.49	445.80	187.47	286.79	187.13	228.39
20	188.43	438.62	187.69	319.33	188.75	423.49	188.25	402.44	187.45	281.85	187.13	228.39
21	187.95	361.10	188.27	408.42	189.45	750.92	188.11	382.75	187.55	298.20	187.13	228.39
22	187.91	349.96	187.91	349.96	188.83	526.56	188.17	389.62	187.60	306.53	187.11	224.00
23	187.87	338.99	187.71	321.52	188.85	533.57	188.11	382.75	187.65	311.94	187.09	219.65
24	187.85	336.80	187.59	302.48	189.27	691.07	188.01	367.90	187.75	325.88	187.09	219.65
25	187.81	332.44	187.51	293.91	188.41	424.74	187.93	352.19	187.63	309.77	187.09	219.65
26	187.79	330.25	187.45	284.67	188.53	454.54	187.93	352.19	187.59	305.45	187.11	224.00
27	187.75	325.88	187.69	319.33	188.53	454.54	187.63	309.77	187.53	293.15	187.09	219.65
28	187.69	319.33	188.07	378.18	187.77	328.07	187.55	298.20	187.49	288.91	187.09	219.65
29	187.45	284.67	188.03	370.17	187.75	325.88	187.55	298.20	187.59	302.48	187.09	219.65
30	187.35	260.50	187.99	365.63	187.87	342.25	187.61	307.61	187.45	281.85	187.10	220.59
31			188.05	375.89	187.83	337.84			187.63	309.77		
	Max	1558.55		408.42		750.92		967.07		337.84		281.85
	Min	260.50		239.28		325.88		298.20		281.85		219.65

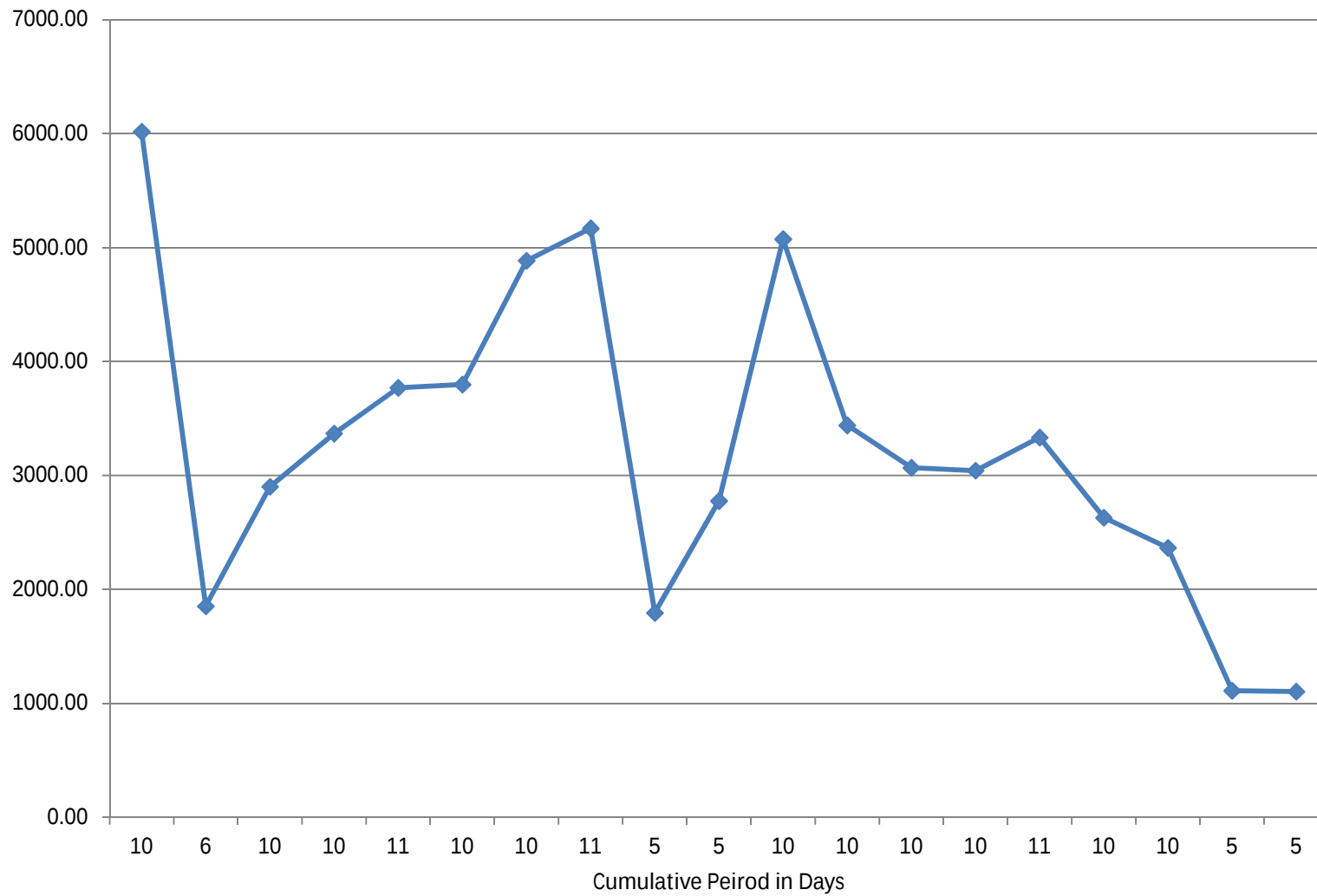
Max 1558.55

Discharge variation due to manual velocity

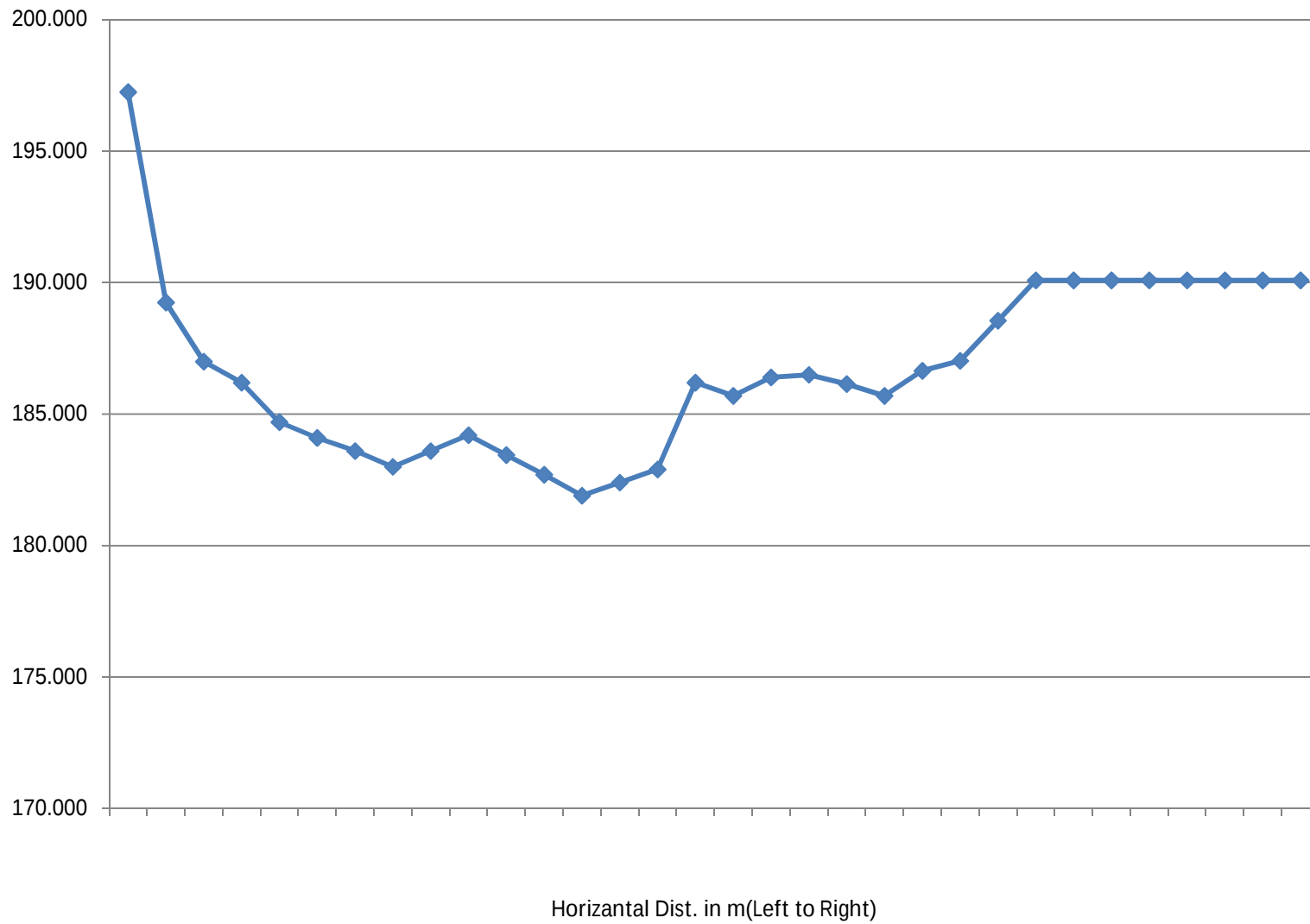
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Subernarekha
Kharkai
Aditya Pur

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO,

Zero of the Gauge
Unit of Water Level
Unit of Discharge

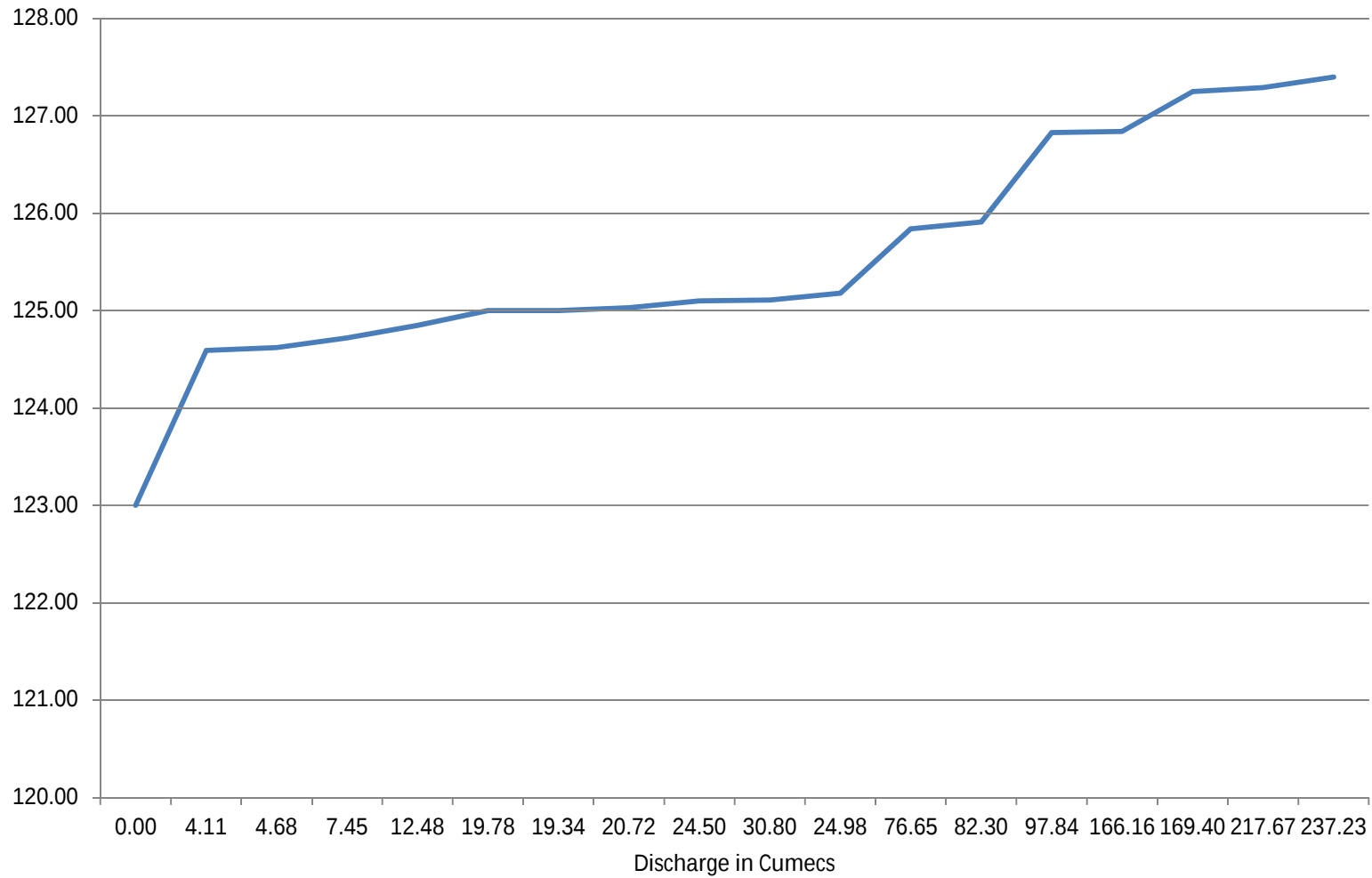
123
M
Cum

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			125.10	24.50	126.10	97.84	125.84	76.65	125.00	19.78	124.72	7.45
2			124.71	7.30	126.23	108.72	125.63	60.55	124.90	14.92	124.72	7.45
3			124.68	6.02	126.18	105.15	125.49	47.70	124.72	7.28	124.72	7.45
4			124.65	5.33	126.46	131.17	125.29	36.46	124.73	7.60	124.72	7.45
5			124.63	4.75	127.29	221.22	126.17	102.75	125.01	19.80	124.95	17.06
6			124.60	4.19	127.25	217.67	126.82	165.38	125.32	38.77	125.03	20.72
7			125.23	33.37	127.22	212.10	127.75	283.32	125.28	36.68	125.06	22.11
8			125.90	81.69	127.24	213.85	127.24	213.85	125.26	35.63	125.03	20.72
9			125.46	48.89	126.54	137.15	126.96	181.55	125.23	27.24	124.96	17.49
10			125.16	29.16	126.00	89.52	127.10	193.31	125.20	31.83	124.94	16.63
11			125.03	20.72	127.25	217.67	127.40	237.23	125.18	30.80	124.85	12.48
12			125.45	47.42	127.07	190.78	127.18	208.60	125.19	31.31	124.70	6.68
13			125.30	37.72	127.24	213.85	126.84	166.94	125.18	30.80	124.69	6.41
14			125.08	23.56	126.69	152.93	127.18	208.60	125.15	28.66	124.69	6.41
15			125.10	24.50	127.04	188.27	127.08	191.63	125.13	26.50	124.68	6.17
16	124.40	1.36	125.47	48.52	126.47	131.92	127.49	248.67	125.20	31.83	124.67	5.93
17	124.40	1.36	126.15	101.35	126.85	170.19	128.20	340.01	126.10	97.84	124.66	5.70
18	124.41	1.43	126.02	90.84	126.77	161.47	127.06	189.95	125.08	23.03	124.65	5.46
19	124.43	1.61	125.84	76.65	127.20	210.35	127.24	213.85	125.07	22.57	124.64	5.10
20	124.44	1.89	125.55	54.92	126.82	165.38	126.68	154.43	125.01	20.70	124.63	4.87
21	124.43	1.61	125.91	82.30	126.83	166.16	126.84	169.40	125.00	19.34	124.62	4.68
22	128.80	429.13	126.05	92.82	127.35	229.61	126.68	154.43	124.99	18.88	124.62	4.68
23	127.38	229.22	125.70	65.77	127.06	189.95	127.26	215.61	124.99	18.88	124.61	4.49
24	126.36	123.70	125.51	51.68	126.66	152.86	126.66	152.86	124.98	18.41	124.61	4.49
25	125.11	24.98	125.30	37.72	126.50	134.16	126.26	114.43	124.97	17.95	124.61	4.49
26	126.06	93.48	125.10	25.05	126.71	156.77	125.95	84.78	124.97	17.95	124.60	4.30
27	126.00	89.52	125.02	22.10	126.59	140.89	125.68	64.60	124.95	17.06	124.60	4.30
28	125.81	73.53	125.25	35.10	126.30	117.38	125.30	37.72	124.78	9.85	124.60	4.30
29	125.47	49.45	125.33	39.30	126.24	111.20	125.10	25.05	124.74	8.15	124.59	4.11
30	125.30	37.72	125.53	53.78	126.10	97.84	125.04	21.67	124.73	7.78	124.59	4.11
31			126.43	128.93	126.01	90.18			124.73	7.78		
Max		429.13	128.93		229.61		340.01		97.84		22.11	
Min		1.36	4.19		89.52		21.67		7.28		4.11	

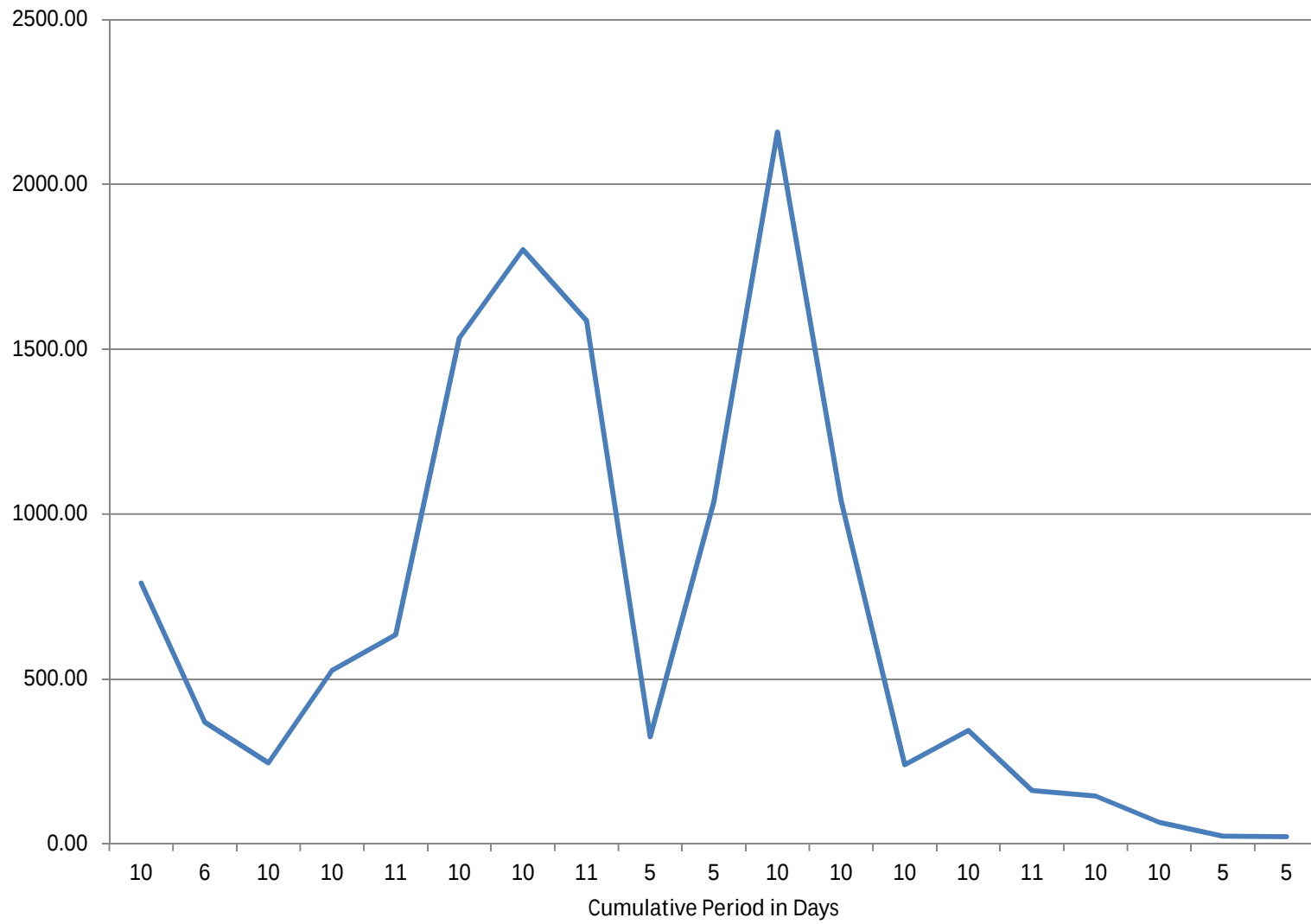
Discharge variation due to manual velocity measurement,

Max 429.13
Min 1.36

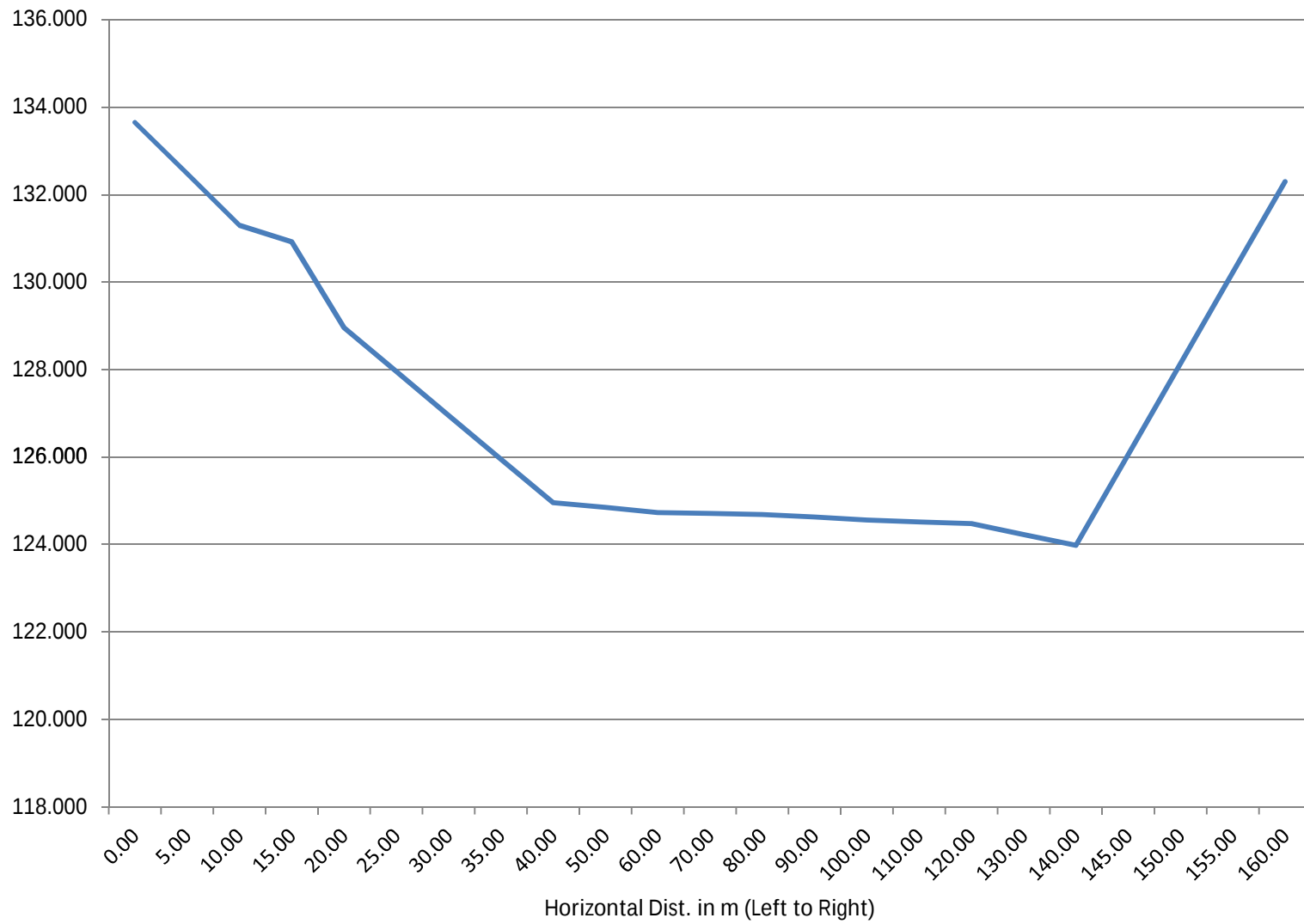
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Subernarekha
Kanchi
Bundu

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

280

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			280.75	99.32	280.56	54.52	280.60	73.32	280.64	80.92	280.49	48.38
2			280.74	98.19	280.52	50.55	280.61	74.33	280.62	75.34	280.54	52.00
3			280.75	102.04	280.82	124.87	280.70	89.81	280.62	75.34	280.54	52.00
4			280.70	92.38	280.75	102.04	280.80	127.98	280.62	75.34	280.59	66.75
5			280.67	87.79	280.68	91.40	280.82	130.74	280.78	112.56	280.64	71.40
6			280.68	88.89	280.78	112.56	281.82	458.64	280.70	102.64	280.62	69.54
7			280.65	84.38	280.80	115.04	281.40	288.96	280.61	74.33	280.66	73.26
8			280.63	82.21	280.78	112.56	281.07	188.37	280.60	73.32	280.65	72.33
9			280.62	79.97	280.62	75.34	280.92	160.88	280.58	71.37	280.62	69.54
10			280.65	83.18	280.56	64.14	281.30	365.61	280.60	73.32	280.60	67.68
11			280.60	68.81	280.72	98.55	281.10	193.21	280.90	157.71	280.56	64.14
12			280.49	47.41	281.02	178.50	281.10	193.21	280.85	150.03	280.52	50.55
13			280.40	29.82	280.90	157.71	280.95	167.30	280.87	146.92	280.51	49.82
14			280.46	46.35	282.82	823.82	281.75	420.14	280.65	78.36	280.50	49.10
15			280.71	97.39	282.05	551.23	281.30	251.22	280.65	78.36	280.50	53.03
16	280.65	32.55	280.57	55.26	280.40	23.00	281.10	195.13	280.64	77.35	280.59	72.31
17	280.65	32.55	280.52	50.55	280.40	23.00	281.05	183.30	280.62	69.54	280.49	52.25
18	280.69	93.80	280.49	44.51	280.38	22.33	281.25	237.66	280.59	66.75	280.49	48.38
19	280.69	93.80	280.47	37.62	280.38	22.33	281.10	210.43	280.56	58.80	280.47	47.03
20	280.70	96.22	280.48	47.70	280.38	22.33	281.05	183.30	280.55	52.73	280.47	32.92
21	280.71	97.39	280.52	50.55	280.38	22.33	281.04	181.70	280.54	52.00	280.46	32.44
22	280.73	97.05	280.50	49.10	280.36	21.65	281.00	175.30	280.53	51.27	280.46	32.44
23	280.70	93.66	280.42	30.70	280.36	21.65	280.99	173.70	280.52	50.55	280.45	32.01
24	280.69	91.26	280.47	47.03	280.36	21.65	280.95	167.30	280.52	50.55	280.45	32.01
25	280.69	91.26	280.42	30.70	280.36	21.65	280.91	159.29	280.51	49.82	280.44	31.57
26	280.70	93.66	280.40	29.82	280.36	21.65	280.88	154.64	280.51	49.82	280.44	31.57
27	280.73	97.05	280.44	31.57	280.34	20.98	280.87	153.10	280.50	49.10	280.45	32.01
28	280.70	93.66	280.42	30.70	280.34	20.98	280.85	136.40	280.50	49.10	280.45	32.01
29	280.73	97.05	280.40	29.82	280.34	20.98	280.80	115.04	280.50	49.10	280.44	31.57
30	280.74	98.19	280.40	29.82	280.34	20.98	280.67	84.08	280.49	48.38	280.44	31.57
31			280.54	53.04	280.32	20.30			280.49	48.38		

98.19

32.55

102.04

29.82

823.82

20.30

458.64

73.32

157.71

48.38

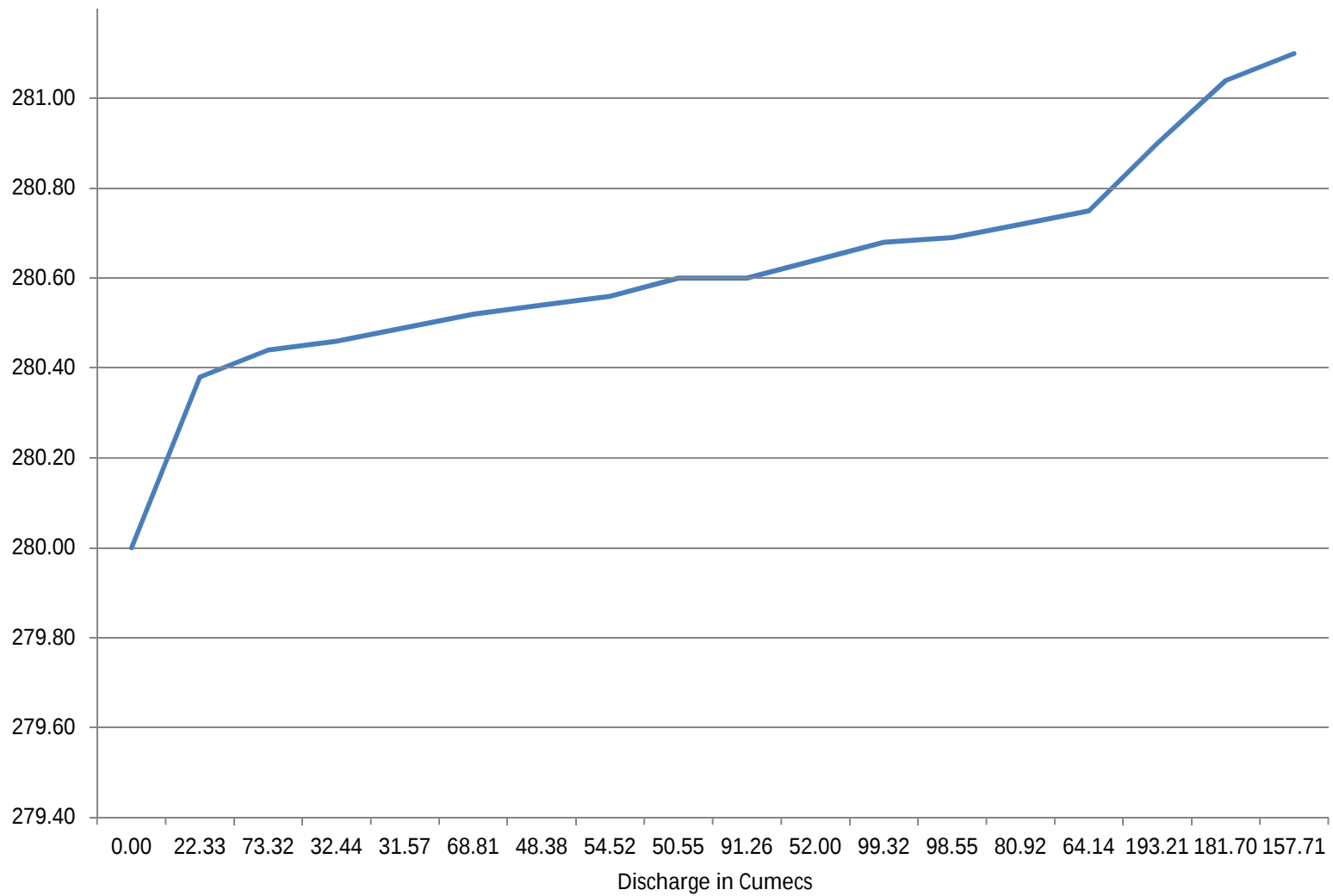
73.26

31.57

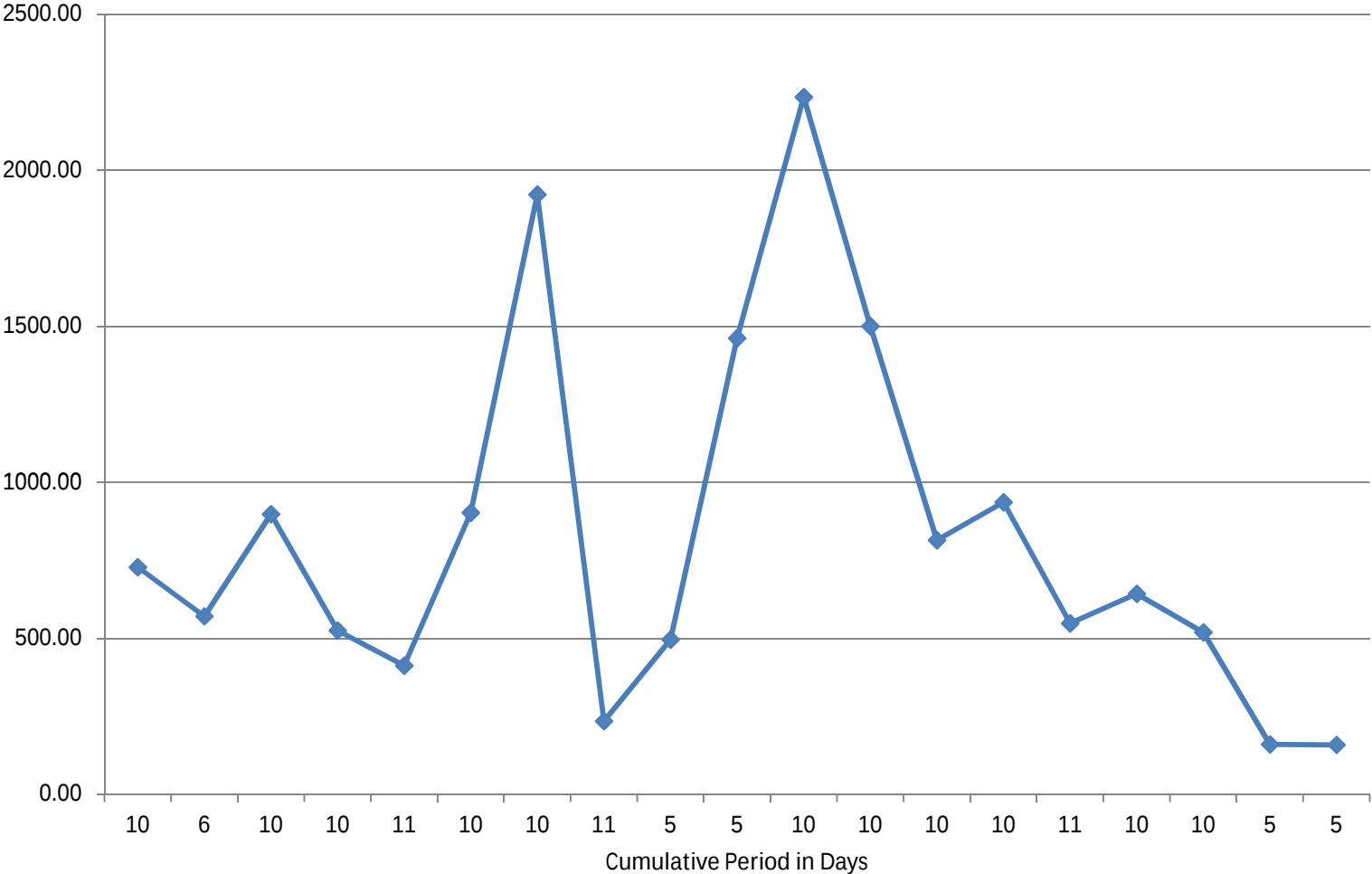
Max 823.82

Discharge variation due to manual velocity

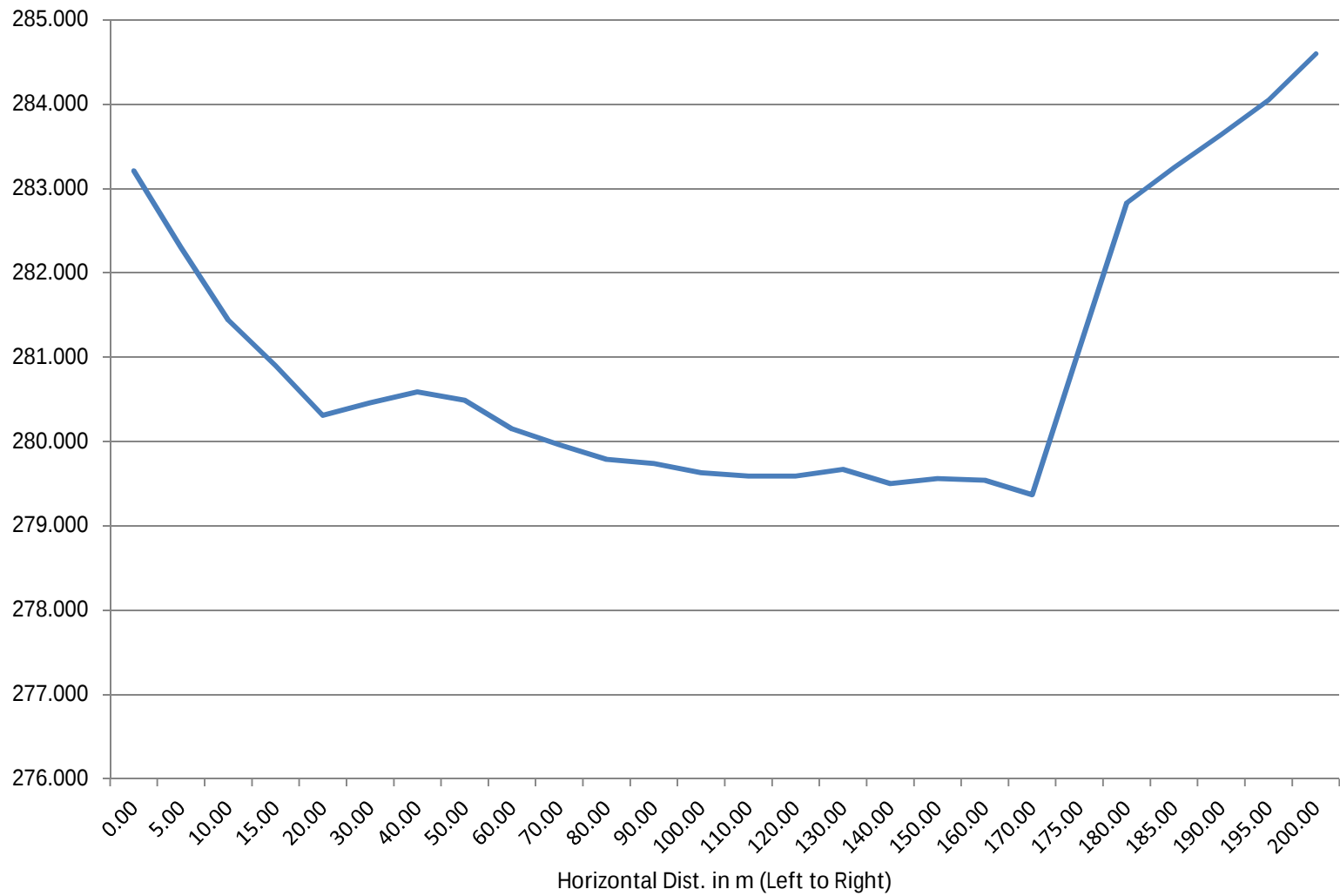
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Subernarekha
Sanjay
Chakradhar Pur

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

315.2

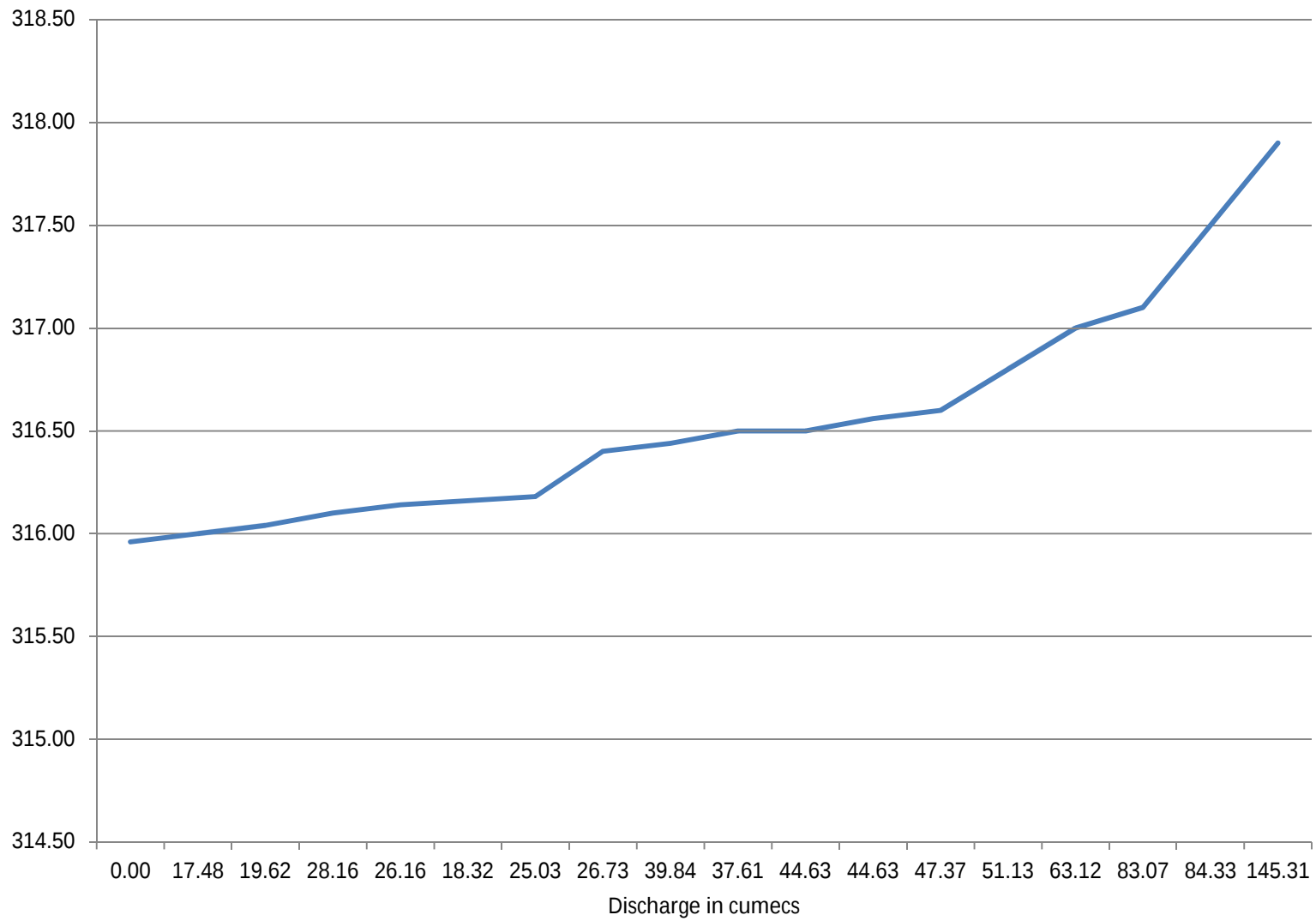
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			316.14	26.16	316.82	63.12	316.00	18.32	316.10	25.03	315.96	17.48
2			316.16	26.73	316.68	54.92	315.98	17.90	316.16	26.73	316.00	18.32
3			316.18	28.16	316.62	52.08	315.96	18.49	316.16	26.73	317.10	86.24
4			316.20	28.75	316.60	54.37	316.08	24.46	316.14	26.16	317.06	83.90
5			316.40	37.61	316.80	65.98	316.14	26.99	316.14	23.05	317.02	79.75
6			316.50	44.63	316.90	71.23	316.18	36.39	316.12	22.55	316.60	51.13
7			316.90	71.23	316.90	71.23	316.80	58.31	316.12	22.34	316.50	44.63
8			316.70	57.29	316.80	63.68	316.50	41.11	316.10	25.82	316.45	40.48
9			316.60	51.13	316.74	60.69	316.40	37.61	316.18	27.29	316.40	37.61
10			316.50	44.63	316.74	64.35	316.40	48.35	316.16	26.73	316.40	37.61
11			316.40	37.61	317.00	83.07	317.10	84.33	316.16	26.73	316.60	51.13
12			316.40	37.61	317.30	97.94	317.00	72.35	316.14	23.05	316.58	50.18
13			316.30	33.38	317.10	84.33	316.70	55.87	316.12	22.55	316.58	50.18
14			316.30	33.38	317.00	76.82	316.60	49.19	316.12	22.55	316.56	47.68
15			316.20	28.75	316.80	69.05	316.46	54.46	316.12	20.31	316.54	46.46
16	315.66	10.16	316.20	28.75	317.08	83.65	317.50	107.90	316.10	21.85	316.54	46.46
17	315.70	10.92	316.18	28.16	317.04	87.33	317.38	102.62	316.08	21.35	316.52	45.54
18	315.78	12.68	316.18	28.16	317.50	110.95	317.16	85.76	316.08	21.35	316.50	44.63
19	316.40	25.25	316.40	37.61	317.20	90.05	316.90	67.09	316.06	20.10	316.50	44.63
20	316.40	37.61	316.60	51.13	317.00	92.00	316.66	52.27	316.06	20.10	316.48	43.87
21	316.50	44.63	316.50	44.63	317.90	145.31	316.56	47.37	316.04	19.62	316.44	39.84
22	316.80	64.45	316.40	37.61	317.60	115.92	316.48	40.41	316.04	19.62	316.40	37.61
23	316.64	54.37	316.40	37.61	317.10	90.08	316.40	37.61	316.04	19.62	316.36	35.43
24	316.56	47.68	316.28	32.76	317.40	103.79	316.36	35.43	316.02	18.78	316.34	34.75
25	316.50	44.63	316.26	31.44	317.10	98.70	316.30	31.67	316.02	18.78	316.30	33.38
26	316.30	33.38	316.26	31.44	316.90	71.23	316.24	29.00	316.00	18.32	316.28	32.76
27	316.20	28.75	316.40	37.61	316.80	52.56	316.16	26.73	316.00	18.32	316.24	30.61
28	316.20	28.75	316.50	44.63	316.30	31.67	316.14	26.16	315.98	17.90	316.22	29.78
29	316.16	26.73	316.50	44.63	316.18	23.83	316.14	23.05	315.98	17.90	316.28	32.76
30	316.16	26.73	316.54	48.29	316.10	21.05	316.12	22.34	315.98	17.90	316.18	28.16
31			316.70	57.29	316.04	19.25			315.96	17.48		

64.45 71.23 145.31 107.90 27.29 86.24
10.16 26.16 19.25 17.90 17.48 17.48

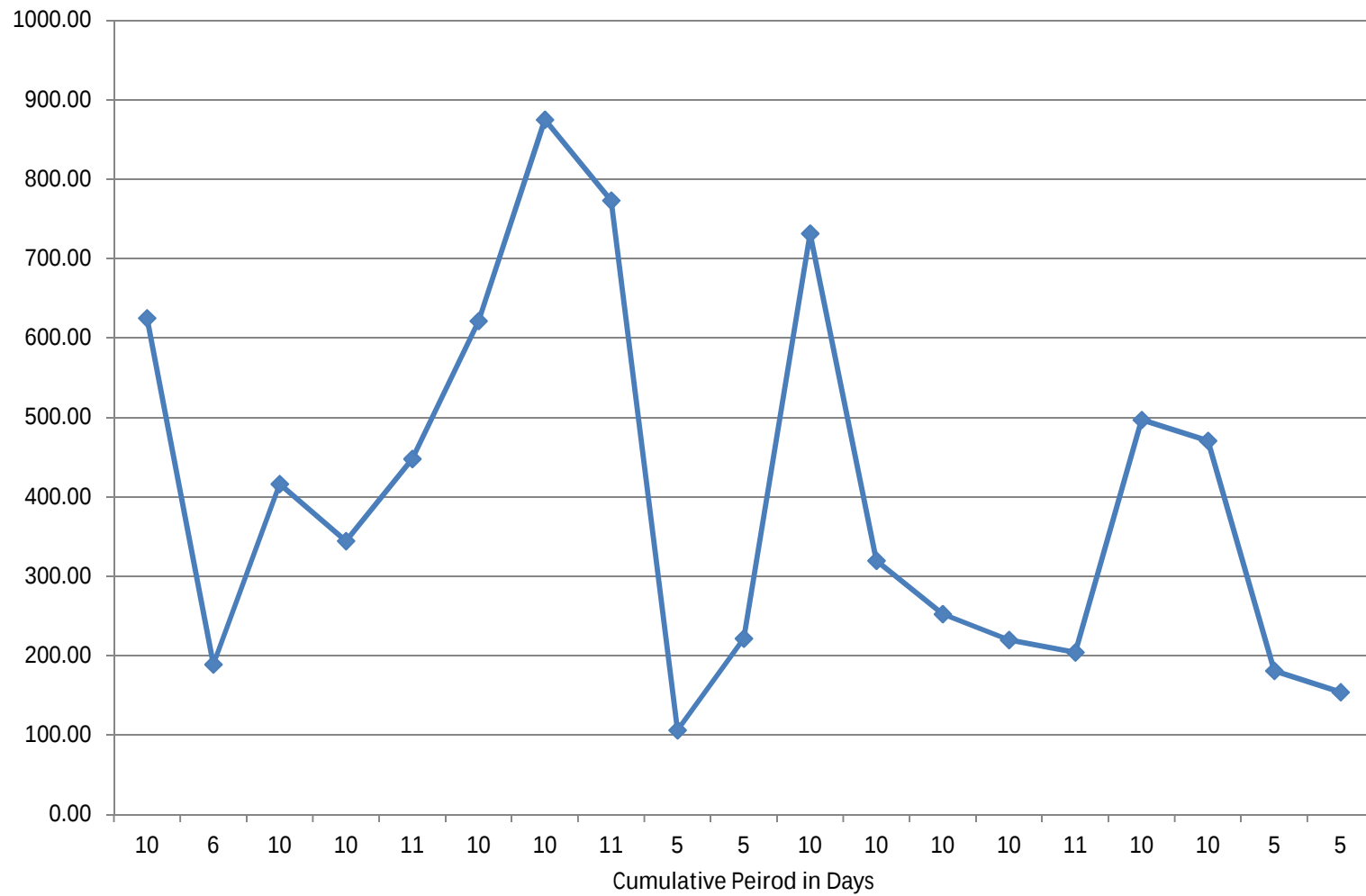
Max 145.31

Discharge variation due to manual velocity

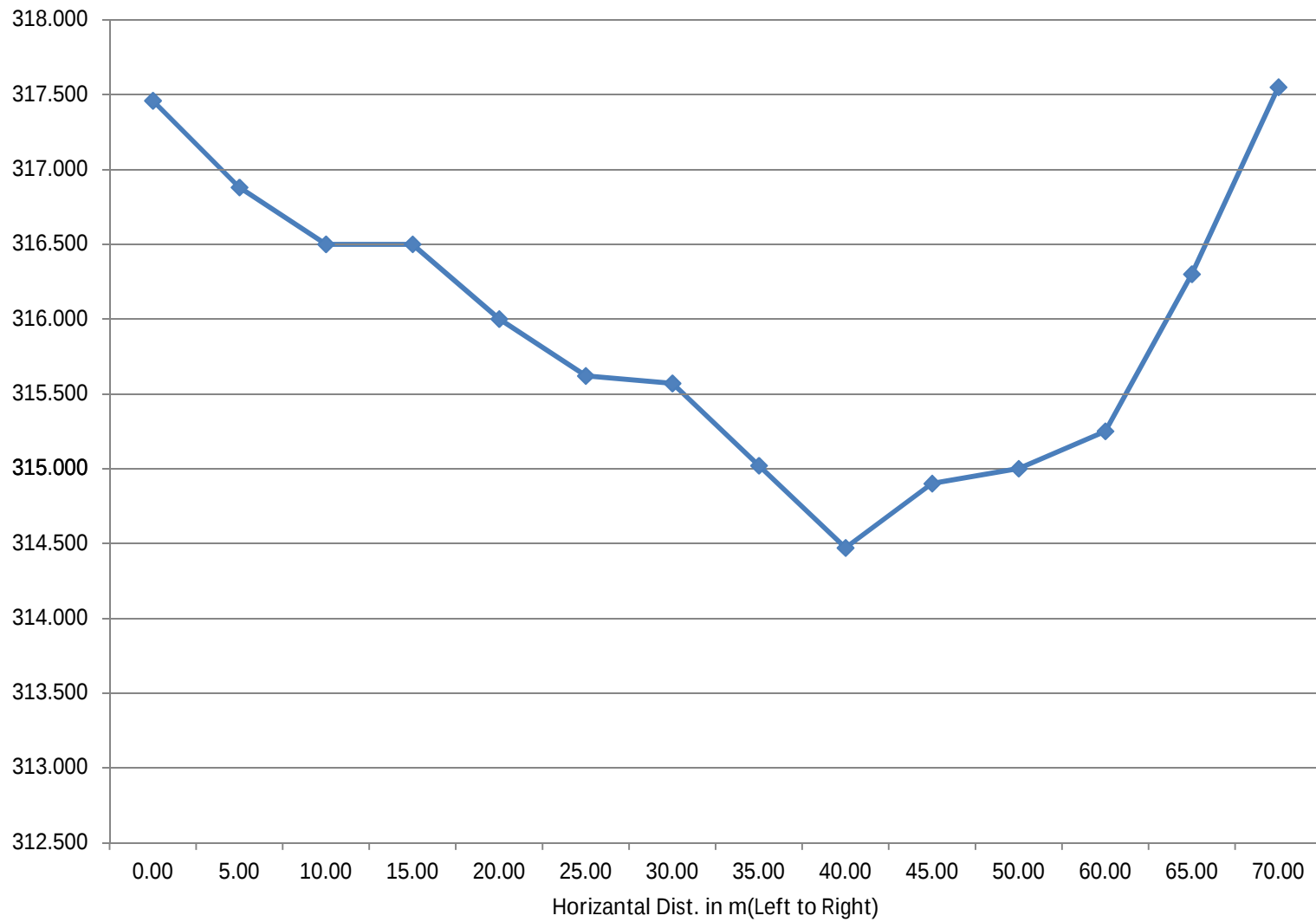
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Suberna Rekha
Roro
Chaibasa

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level
Unit of Discharge

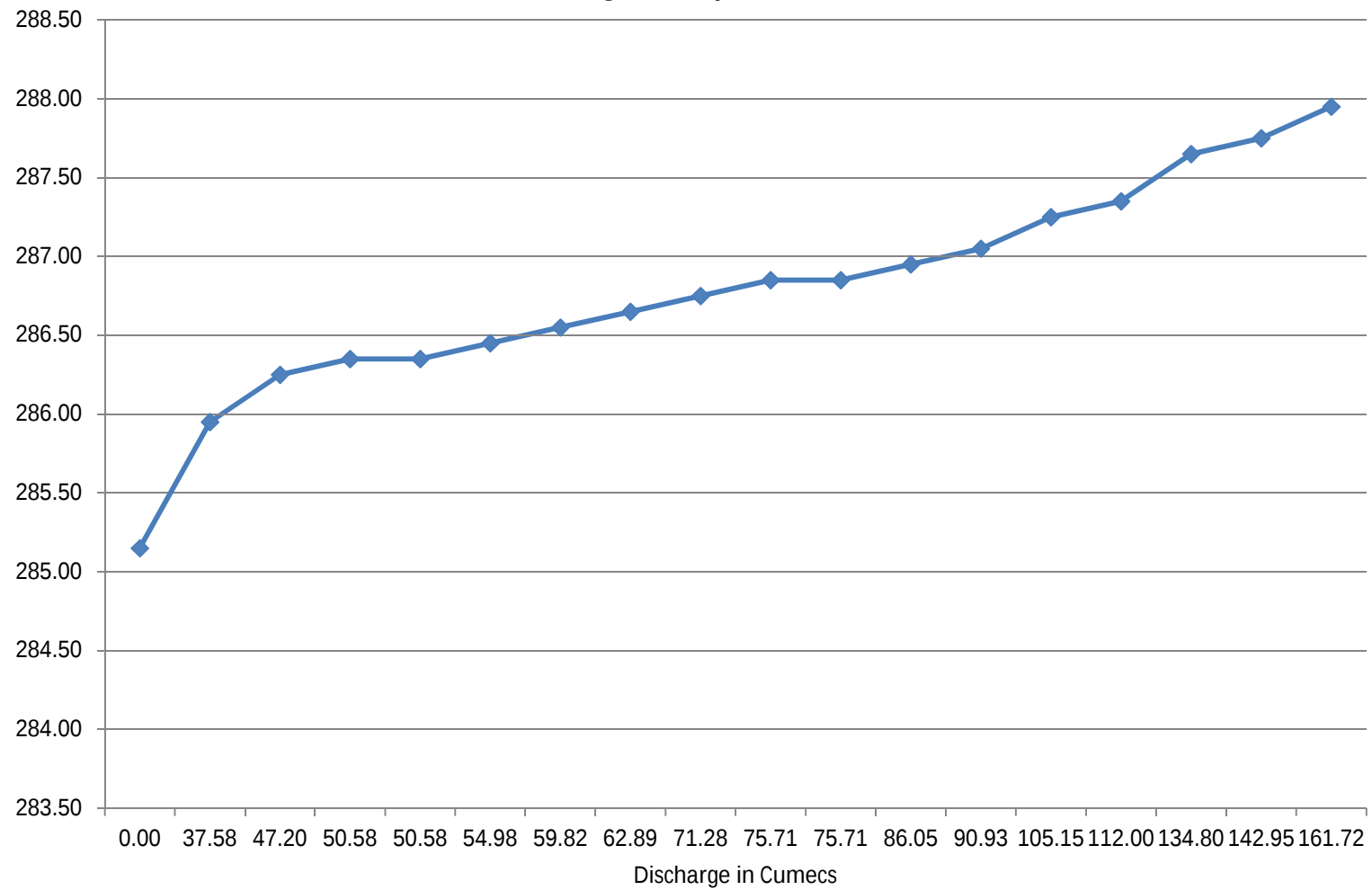
285.15
M
Cum

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			286.25	47.20	286.85	75.71	287.25	105.15	287.35	112.00	286.65	62.89
2			286.25	47.20	286.85	75.71	287.25	105.15	287.55	126.88	286.65	62.89
3			286.35	50.58	286.95	86.05	287.35	112.00	287.55	126.88	286.75	71.28
4			286.35	50.58	286.95	86.05	287.35	112.00	287.45	119.18	286.75	71.28
5			286.45	54.98	286.85	75.71	287.55	126.88	287.45	119.18	286.70	68.58
6			286.45	54.98	286.85	75.71	287.95	161.72	287.35	112.00	286.70	68.58
7			286.55	58.86	286.95	86.05	287.95	161.72	287.35	112.00	286.65	60.86
8			286.55	58.86	286.85	75.71	287.85	151.33	287.25	105.15	286.65	60.86
9			286.65	62.38	286.95	86.05	287.85	151.33	287.25	105.15	286.60	62.34
10			286.75	71.28	286.95	86.05	287.75	142.95	286.95	86.05	286.60	62.34
11			286.75	71.28	287.05	90.93	287.75	142.95	286.95	86.05	286.55	59.82
12			286.65	62.38	287.05	90.93	287.65	134.80	287.05	90.93	286.55	59.82
13			286.65	62.38	287.25	105.15	287.65	134.80	287.05	90.93	286.45	54.98
14			286.55	58.86	287.25	105.15	287.55	126.88	286.95	86.05	286.45	54.98
15			286.55	58.86	287.35	112.00	287.55	126.88	286.95	86.05	286.35	49.70
16	285.85	34.60	286.45	54.98	287.35	112.00	287.35	112.00	286.85	75.71	286.35	49.70
17	285.95	37.58	286.45	54.98	287.55	126.88	287.35	112.00	286.85	75.71	286.45	54.98
18	285.95	37.58	286.35	50.58	287.55	126.88	287.55	126.88	286.95	86.05	286.45	54.98
19	286.05	40.33	286.25	47.20	287.65	134.80	287.55	126.88	286.95	86.05	286.55	59.82
20	286.05	40.33	286.35	50.58	287.95	161.72	287.65	134.80	286.85	75.71	286.55	59.82
21	286.15	43.12	286.35	50.58	287.95	161.72	287.65	134.80	286.85	75.71	286.45	54.98
22	286.15	43.12	286.25	47.20	287.85	151.33	287.75	142.95	286.80	78.38	286.45	54.98
23	286.25	47.20	286.25	47.20	287.85	151.33	287.75	142.95	286.80	78.38	286.35	49.70
24	286.25	47.20	286.35	50.58	287.75	142.95	287.55	126.88	286.75	71.28	286.35	49.70
25	286.35	50.58	286.35	50.58	287.75	142.95	287.55	126.88	286.75	71.28	286.25	46.78
26	286.35	50.58	286.45	54.98	287.65	134.80	287.35	112.00	286.70	68.58	286.25	46.78
27	286.25	47.20	286.45	54.98	287.65	134.80	287.35	112.00	286.70	68.58	286.05	40.33
28	286.25	47.20	286.55	58.86	287.55	126.88	287.55	126.88	286.65	60.86	286.05	40.33
29	286.15	43.12	286.55	58.86	287.55	126.88	287.55	126.88	286.65	60.86	285.95	37.58
30	286.15	43.12	286.55	58.86	287.35	112.00	287.35	112.00	286.55	59.82	285.95	37.58
31			286.75	71.28	287.35	112.00			286.55	59.82		
Max		50.58	71.28		161.72		161.72		126.88		71.28	
Min		34.60	47.20		75.71		105.15		59.82		37.58	

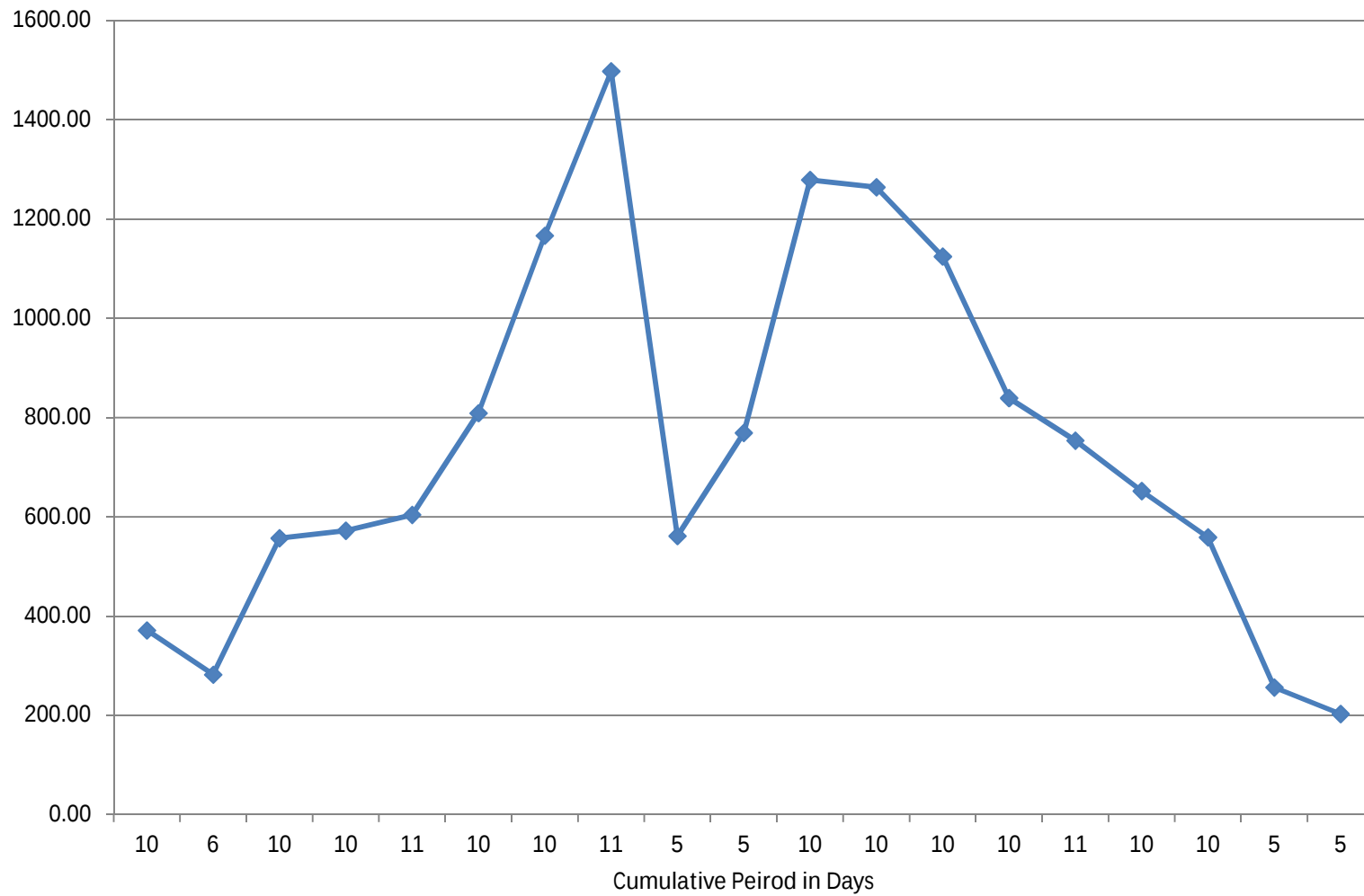
Discharge variation due to manual velocity measurement,

Max 161.72
Min 34.60

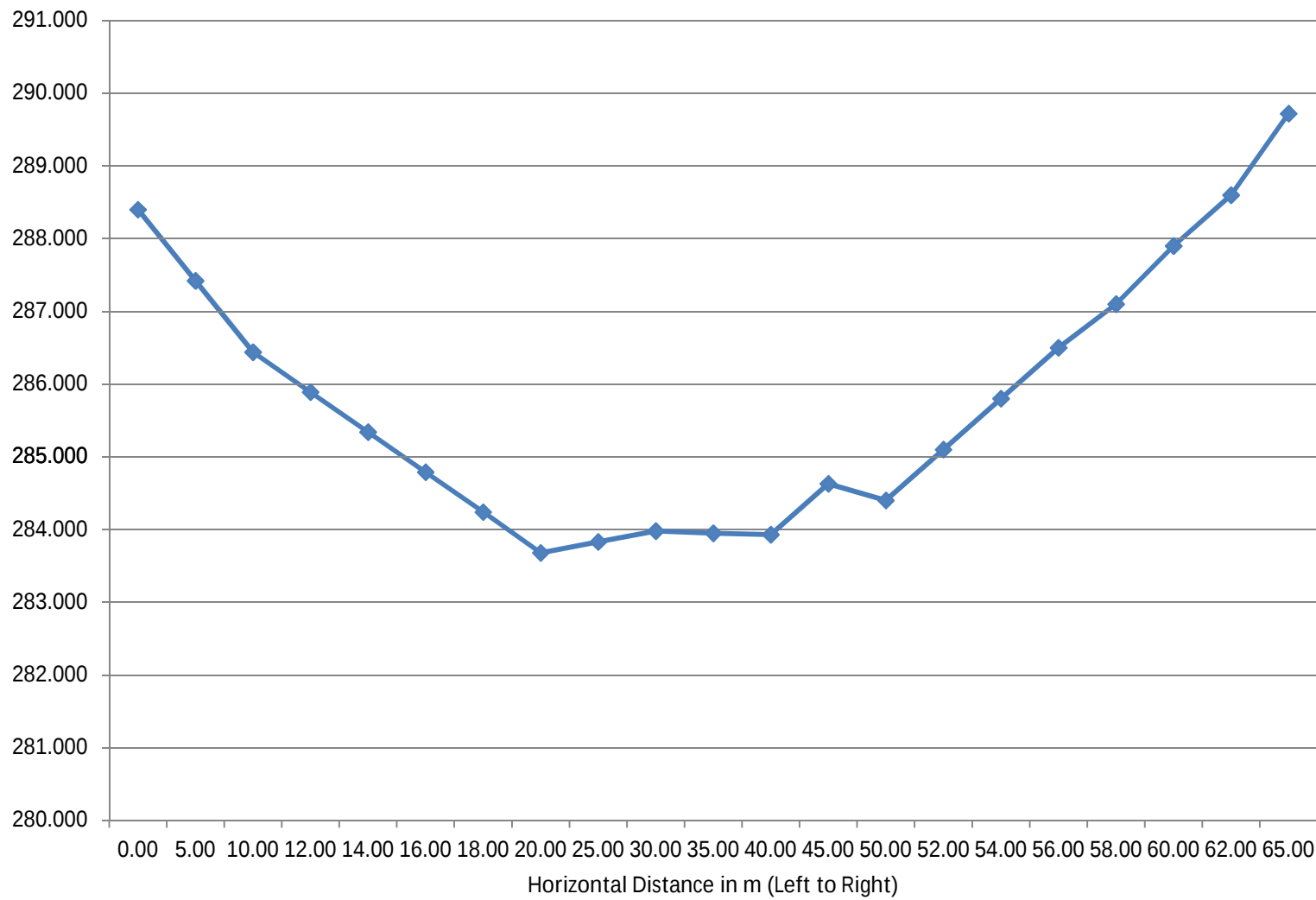
Stage Graph



Storm Hydrograph



C/S of River



SOUTH KOEL - BASIN

Basin South Koel Water Level Data Zero of the Gauge 184.15
River South Koel 2012-13 Unit of Water Level M
Site MANOHAR PUR Catchment area - Sqkm Unit of Discharge Cum
TOPO SHEET NO. -

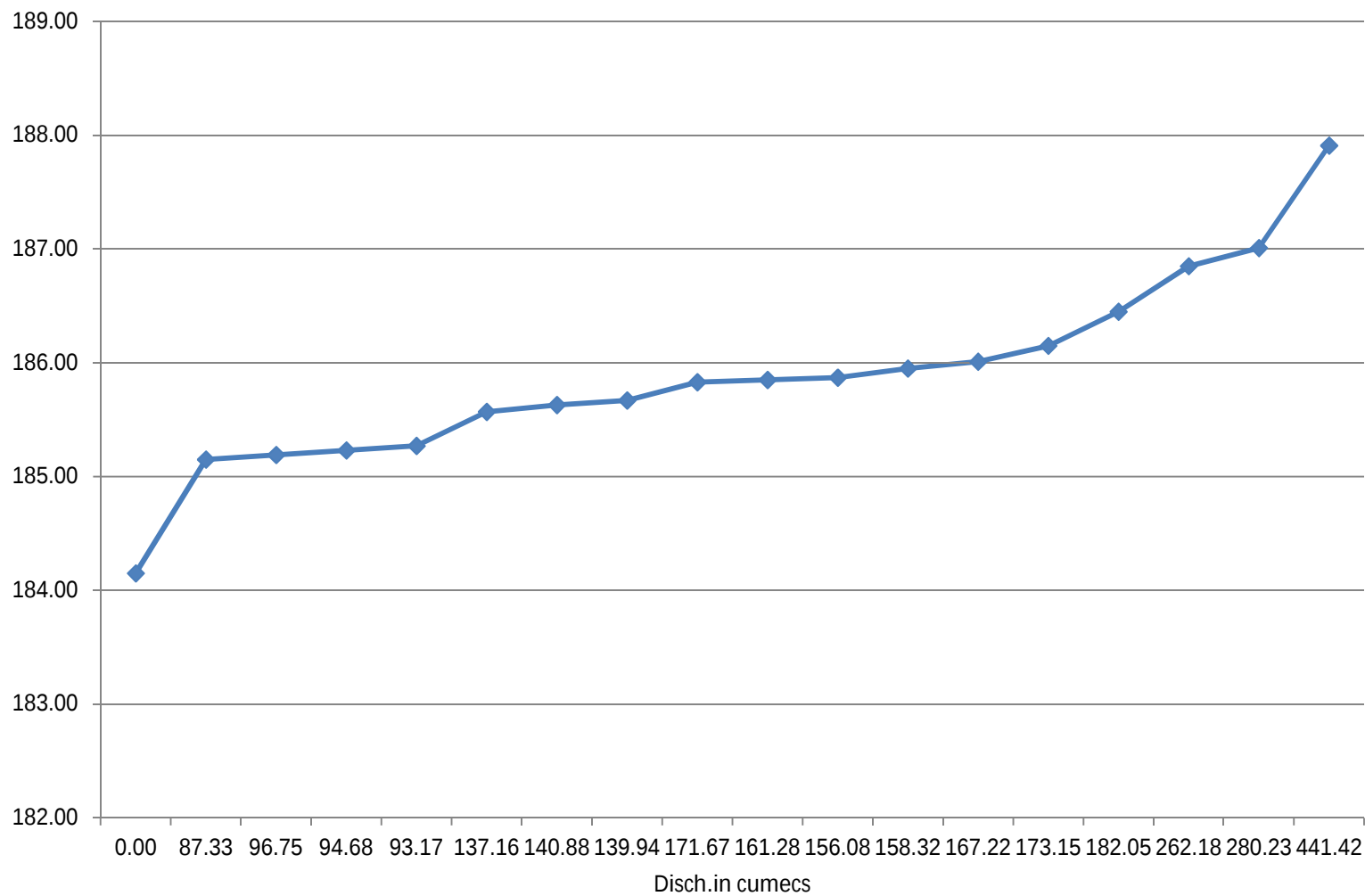
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			185.23	96.75	186.03	173.15	185.87	161.28	185.95	167.22	185.19	94.68
2			185.21	95.72	185.91	160.43	185.83	154.63	185.95	167.22	185.19	91.98
3			185.21	95.72	186.67	241.93	185.79	151.74	185.95	167.22	185.19	91.98
4			185.21	95.72	187.25	316.17	185.77	150.29	185.93	165.73	185.27	95.99
5			185.23	96.75	186.45	213.78	186.55	223.91	185.91	164.25	186.03	173.15
6			185.79	151.74	186.39	207.97	186.43	211.83	185.91	164.25	185.85	156.08
7			186.17	183.66	186.31	196.02	186.29	198.73	185.89	162.77	186.03	173.15
8			186.13	180.57	186.93	271.18	186.81	257.68	185.87	161.28	186.01	171.67
9			186.03	173.15	185.83	165.68	186.31	200.57	185.93	165.73	185.95	167.22
10			185.91	160.43	186.87	264.43	186.07	176.12	186.17	205.02	185.91	164.25
11			185.85	156.08	187.01	280.23	186.01	171.67	186.15	182.05	185.83	158.32
12			185.81	153.18	188.41	540.28	186.15	182.05	186.13	180.57	185.79	151.74
13			185.73	147.39	188.65	607.75	186.37	206.12	186.09	177.60	185.73	147.39
14			185.71	145.94	188.17	495.93	188.51	452.11	186.03	173.15	185.67	148.14
15			185.67	139.94	188.05	469.73	187.43	353.24	185.97	168.70	185.63	140.88
16	185.39	123.01	185.65	138.73	187.97	449.68	188.17	495.93	185.91	164.25	185.57	137.16
17	185.39	123.01	185.67	139.94	188.17	495.93	187.97	449.68	185.85	156.08	185.51	133.44
18	185.39	123.01	185.61	136.31	188.05	469.73	187.27	332.51	185.77	150.29	185.47	127.85
19	185.39	123.01	186.09	189.99	188.01	464.11	186.95	273.43	185.71	145.94	185.41	124.22
20	185.39	123.01	185.67	139.94	188.97	681.94	186.87	264.43	185.65	142.12	185.33	101.91
21	185.57	137.16	185.67	139.94	187.91	441.42	186.85	262.18	185.57	137.16	185.27	93.17
22	185.99	170.18	185.71	145.94	188.91	660.63	186.77	253.18	185.51	133.44	185.25	92.19
23	186.03	173.15	185.67	139.94	188.07	472.54	186.69	244.18	185.47	130.97	185.23	91.22
24	185.89	158.98	185.45	126.64	187.97	449.68	188.41	550.29	185.41	106.04	185.21	90.25
25	185.63	140.88	185.41	124.22	187.57	394.60	187.91	441.42	185.33	101.91	185.19	89.27
26	185.53	131.48	185.39	123.01	187.91	441.42	187.17	319.55	185.27	98.81	185.19	89.27
27	185.49	129.06	185.91	164.25	187.75	444.06	186.47	215.74	185.25	97.78	185.17	88.30
28	185.45	126.64	185.85	156.08	187.47	403.23	186.19	185.28	185.23	96.75	185.17	88.30
29	185.25	97.78	185.83	154.63	187.27	332.51	186.07	176.12	185.23	96.75	185.15	87.33
30	185.25	97.78	185.79	151.74	186.65	239.68	185.97	168.70	185.21	95.72	185.15	87.33
31			185.77	150.29	186.19	185.28			185.21	92.98		

Max. 173.15 189.99 681.94 550.29 205.02 173.15
Min. 97.78 95.72 160.43 150.29 92.98 87.33

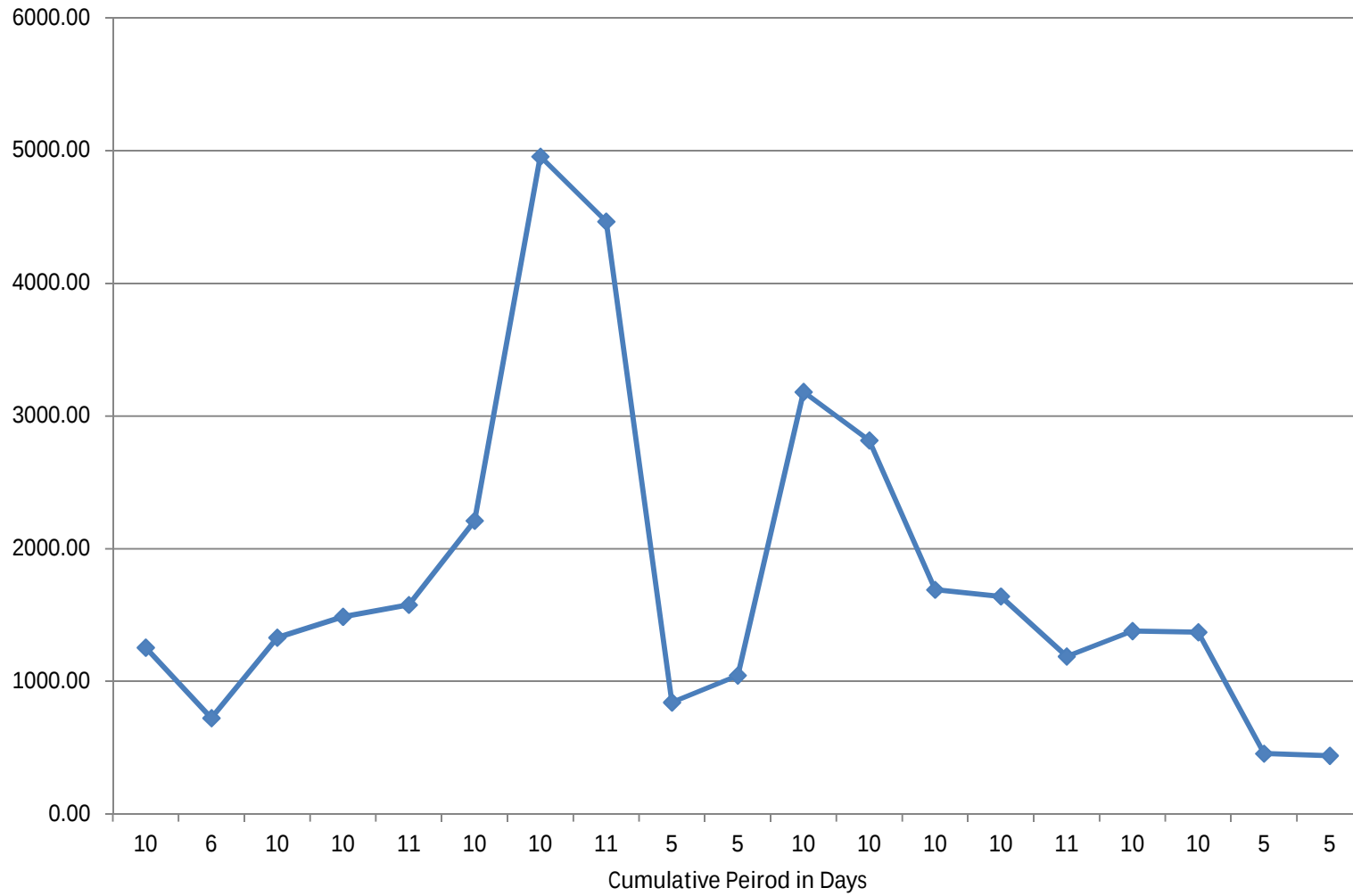
Discharge variation due to manual velocity measurement,

Max 681.94
Min 87.33

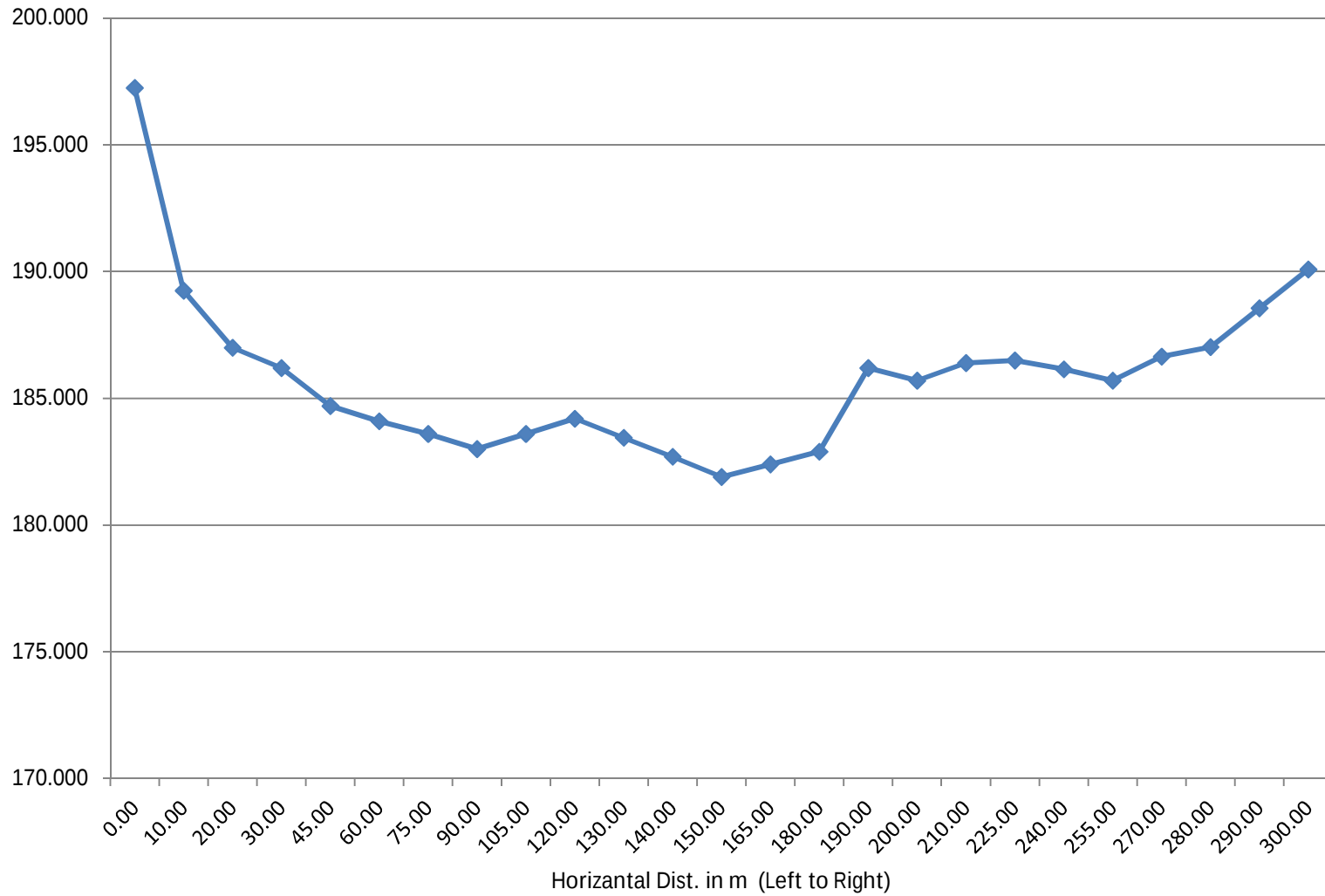
Stage Graph



Storm Hydrograph



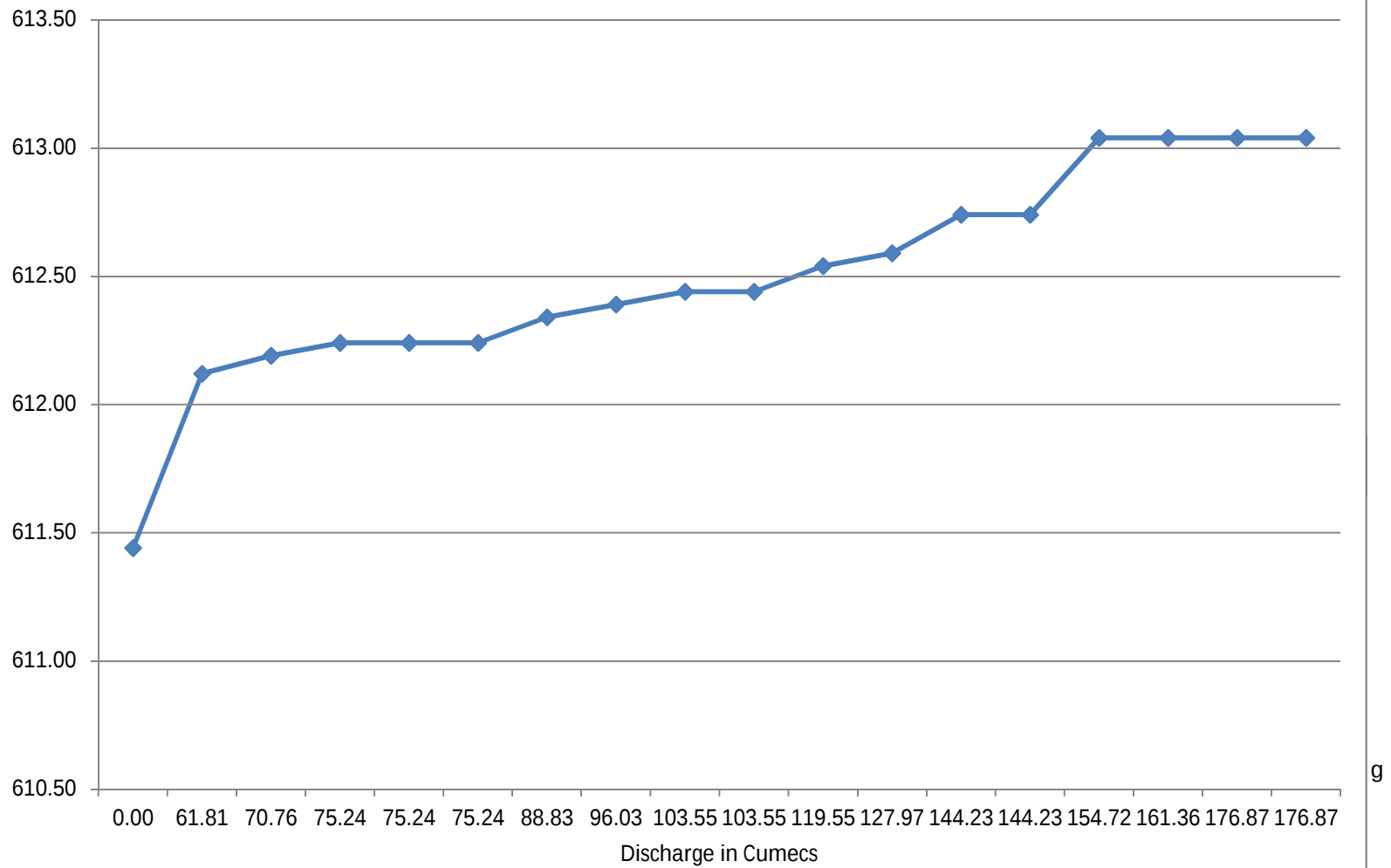
C/S of River



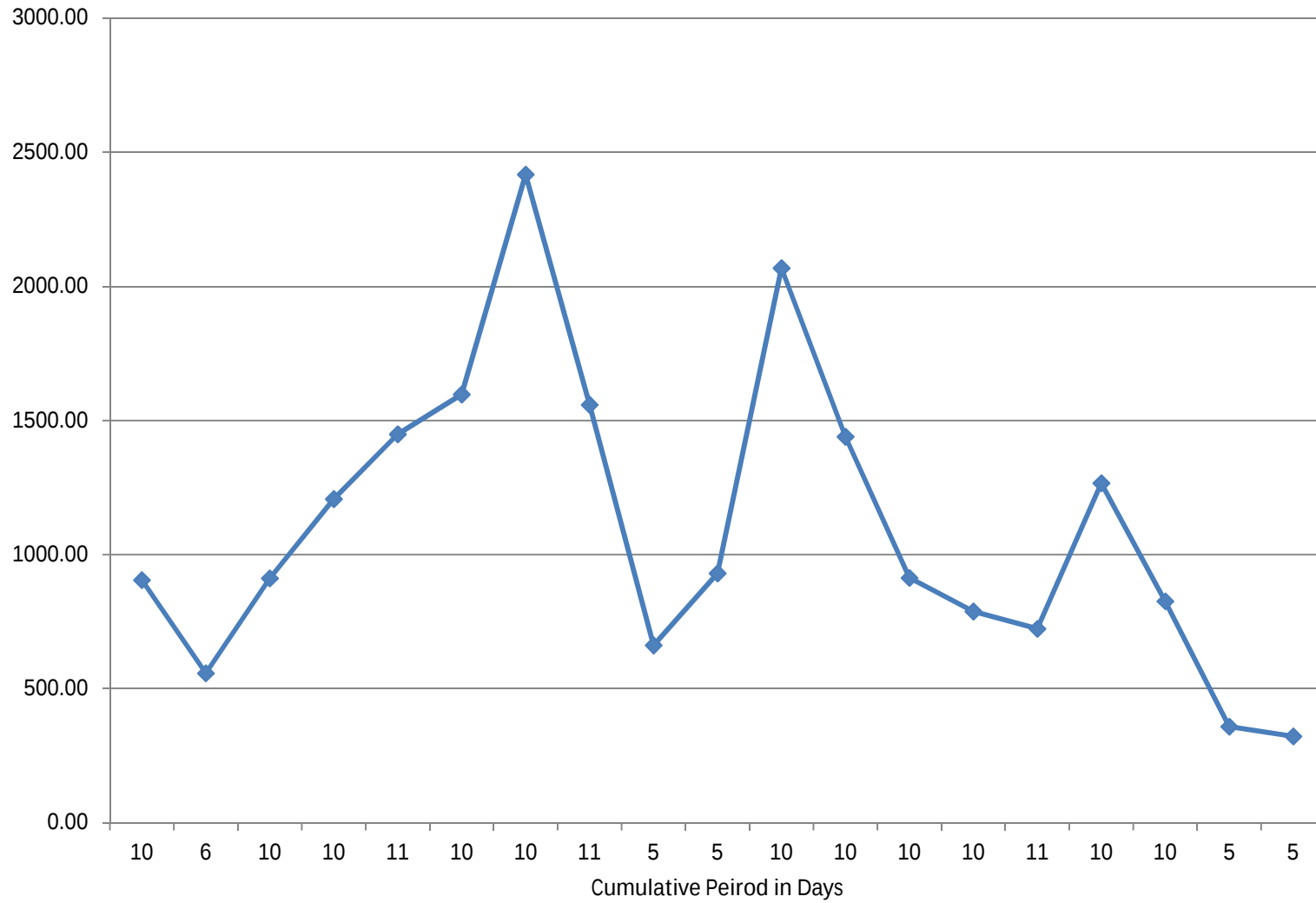
Basin South Koel Water Level Data Zero of the Gauge 611.44
River South Koel 2012-13 Unit of Water Level M
Site Nagpheni Catchment area - Sqkm Unit of Discharge Cum
TOPO SHEET NO. -

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			612.24	75.24	612.84	154.72	612.74	144.23	612.44	103.55	612.24	75.24
2			612.19	70.76	612.84	154.72	612.69	137.85	612.54	121.94	612.24	75.24
3			612.19	70.76	612.94	168.61	612.64	131.61	612.49	111.41	612.44	103.55
4			612.19	70.76	613.24	213.76	612.64	131.61	612.39	96.03	612.64	134.14
5			612.14	62.73	613.04	176.87	612.54	117.16	612.34	88.83	613.64	211.92
6			612.34	80.37	612.89	161.59	612.74	144.23	612.29	81.90	613.44	169.81
7			612.54	117.16	612.84	154.72	613.04	161.36	612.24	75.24	613.24	128.93
8			612.64	134.14	612.74	144.23	613.24	213.76	612.19	70.76	612.84	154.72
9			612.54	126.72	612.64	134.14	613.09	181.00	612.24	75.24	612.54	117.16
10			612.44	103.55	612.64	134.14	613.34	230.20	612.34	88.83	612.39	96.03
11			612.44	103.55	613.04	161.36	613.04	176.87	612.39	96.03	612.34	88.83
12			612.54	117.16	612.94	150.86	612.74	144.23	612.29	81.90	612.34	88.83
13			612.59	127.97	613.04	161.36	613.04	161.36	612.29	81.90	612.34	88.83
14			612.64	134.14	612.94	168.61	613.44	247.33	612.24	75.24	612.29	81.90
15			612.44	103.55	614.44	448.23	613.64	279.89	612.24	75.24	612.29	81.90
16	611.84	33.36	612.44	103.55	614.04	341.77	613.14	194.88	612.29	81.90	612.29	81.90
17	611.84	33.36	612.64	134.14	613.94	325.84	613.09	181.00	612.24	75.24	612.29	81.90
18	611.94	41.09	612.49	111.41	613.64	279.89	613.39	238.69	612.24	75.24	612.29	81.90
19	612.29	81.90	612.69	137.85	613.24	213.76	613.34	230.20	612.24	75.24	612.24	75.24
20	612.54	117.16	612.64	134.14	612.94	165.65	613.24	213.76	612.19	70.76	612.24	75.24
21	612.94	165.65	612.59	127.97	612.74	144.23	613.04	176.87	612.19	70.76	612.24	75.24
22	612.84	154.72	612.54	117.16	612.69	137.85	613.34	230.20	612.19	70.76	612.24	75.24
23	612.74	144.23	612.49	111.41	612.64	131.61	613.14	194.88	612.19	70.76	612.19	70.76
24	612.64	134.14	612.47	107.77	612.54	117.16	612.79	148.01	612.24	75.24	612.19	70.76
25	612.54	119.55	612.44	103.55	612.69	137.85	612.64	131.61	612.19	70.76	612.16	67.39
26	612.44	103.55	612.54	117.16	612.74	144.23	612.59	125.51	612.19	70.76	612.16	67.39
27	612.39	96.03	612.59	127.97	612.84	154.72	612.54	121.94	612.14	62.73	612.14	64.57
28	612.29	81.90	612.94	168.61	612.74	144.23	612.49	111.41	612.14	62.73	612.14	64.57
29	612.29	81.90	612.94	168.61	612.79	148.01	612.44	103.55	612.09	53.33	612.14	64.57
30	612.24	75.24	612.84	154.72	612.74	144.23	612.39	96.03	612.09	53.33	612.12	61.81
31			612.74	144.23	612.84	154.72			612.14	62.73		
	Max.	165.65		168.61		448.23		279.89		121.94		211.92
	Min.	33.36		62.73		117.16		96.03		53.33		61.81

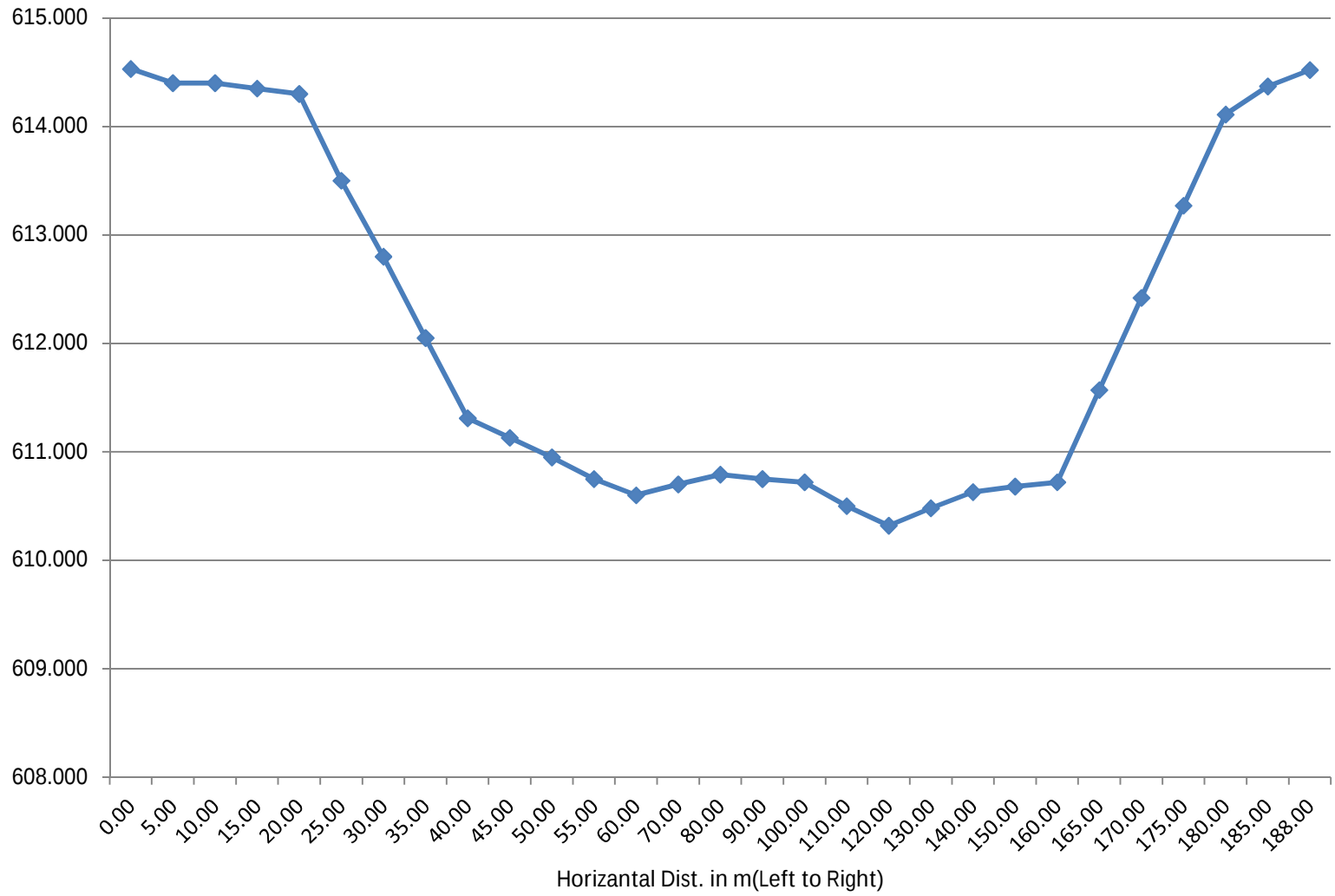
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

South Koel
South Koel
Sithio

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level
Unit of Discharge

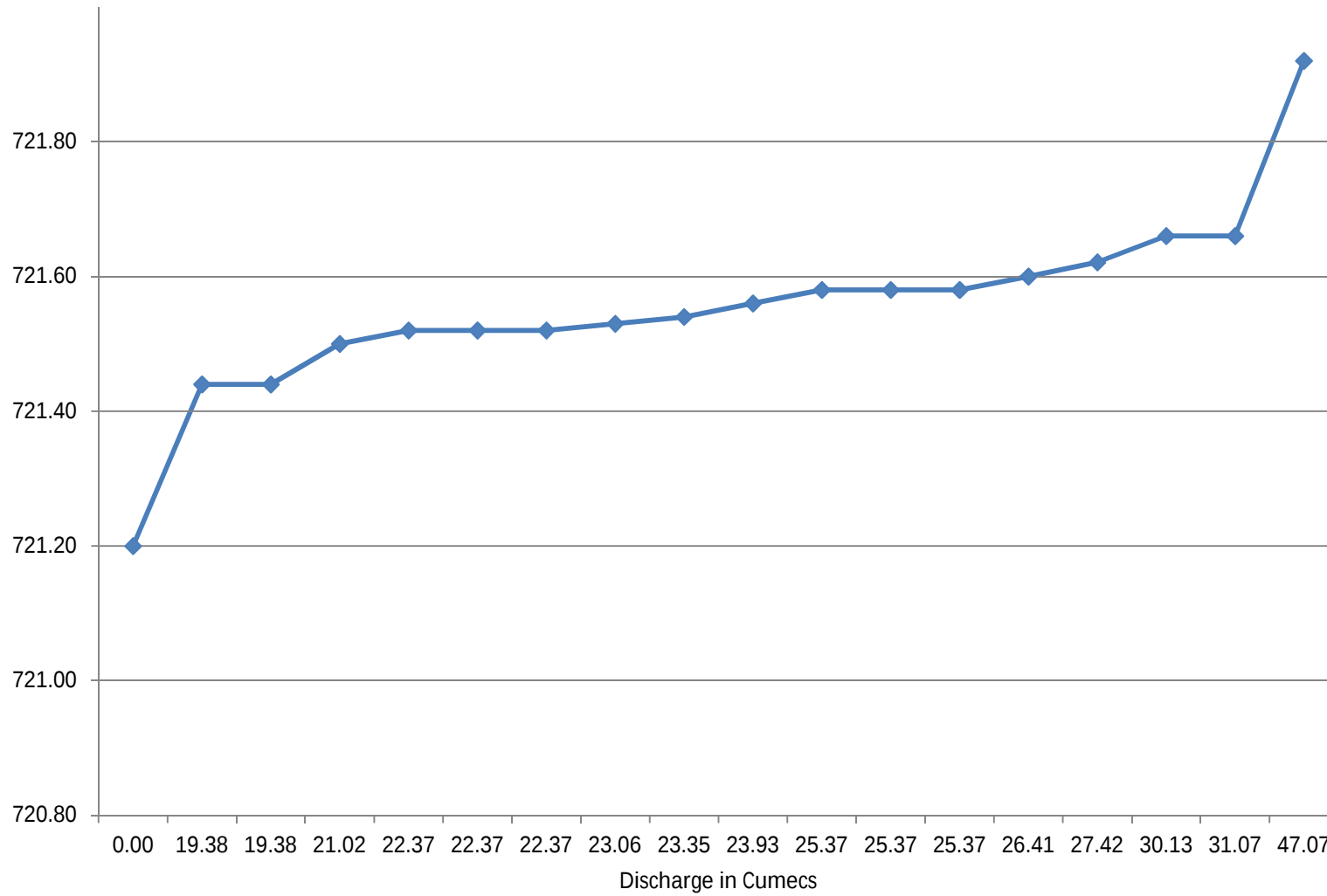
721.2
M
Cum

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			721.50	21.02	721.58	25.37	721.52	22.37	721.60	26.41	721.44	19.38
2			721.50	21.02	721.60	26.41	721.54	23.35	721.59	26.11	721.48	20.47
3			721.50	21.02	721.60	26.41	721.54	23.35	721.58	25.37	721.44	19.38
4			721.50	21.02	721.58	25.37	721.54	23.35	721.58	25.37	721.60	26.41
5			721.50	21.02	721.58	25.37	721.54	23.35	721.58	25.37	722.00	50.25
6			721.48	20.47	721.58	25.37	721.56	23.93	721.56	24.77	721.80	39.58
7			721.50	21.02	721.58	25.37	721.56	23.93	721.55	24.47	721.79	39.21
8			721.50	21.02	721.60	26.41	721.56	23.93	721.54	23.35	721.89	45.29
9			721.50	21.02	721.62	27.39	721.56	23.93	721.53	21.84	722.00	50.25
10			721.50	21.02	721.62	27.39	721.58	25.37	721.52	22.37	721.95	48.26
11			721.52	22.37	721.62	27.42	721.58	25.37	721.52	22.37	721.92	47.07
12			721.52	22.37	721.62	27.39	721.58	25.37	721.52	22.37	721.88	45.48
13			721.52	22.37	721.62	27.39	721.60	26.41	721.52	22.37	721.87	44.50
14			721.52	22.37	721.60	26.41	721.60	26.41	721.51	21.29	721.83	41.03
15			721.52	22.37	721.60	26.41	721.60	26.41	721.50	21.02	721.81	40.28
16	721.42	18.77	721.54	23.35	721.60	26.41	721.62	27.39	721.50	21.02	721.78	37.24
17	721.44	19.38	721.54	23.35	721.60	26.41	721.62	27.39	721.50	21.02	721.75	35.55
18	721.42	18.77	721.54	23.35	721.58	25.37	721.64	29.02	721.52	22.37	721.71	33.75
19	721.44	19.38	721.54	23.35	721.58	25.37	721.64	29.02	721.52	22.37	721.70	33.01
20	721.44	19.38	721.56	23.93	721.58	25.37	721.64	29.02	721.53	22.65	721.69	33.06
21	721.44	19.38	721.56	23.93	721.58	25.37	721.66	30.13	721.54	23.35	721.66	31.07
22	721.42	18.84	721.54	23.35	721.56	23.93	721.66	30.13	721.54	23.35	721.64	29.48
23	721.44	19.38	721.54	23.35	721.56	23.93	721.66	30.13	721.52	22.37	721.60	26.41
24	721.46	19.92	721.54	23.35	721.56	23.93	721.68	32.52	721.50	21.02	721.58	25.37
25	721.44	19.38	721.54	23.35	721.56	23.93	721.68	32.52	721.49	20.74	721.57	25.07
26	721.46	19.92	721.56	23.93	721.56	23.93	721.66	30.13	721.48	20.47	721.55	23.64
27	721.46	19.92	721.56	23.93	721.54	23.35	721.64	29.02	721.48	20.47	721.54	23.35
28	721.48	20.47	721.56	23.93	721.54	23.35	721.64	29.02	721.48	20.47	721.54	23.35
29	721.48	20.47	721.58	25.37	721.54	23.35	721.62	27.39	721.47	20.19	721.55	23.64
30	721.50	21.02	721.58	25.37	721.54	23.35	721.60	26.41	721.45	19.65	721.53	23.06
31			721.58	25.37	721.52	22.37			721.45	19.65		23.06
Max		21.02		25.37		27.42		32.52		26.41		50.25
Min		18.77		20.47		22.37		22.37		19.65		19.38

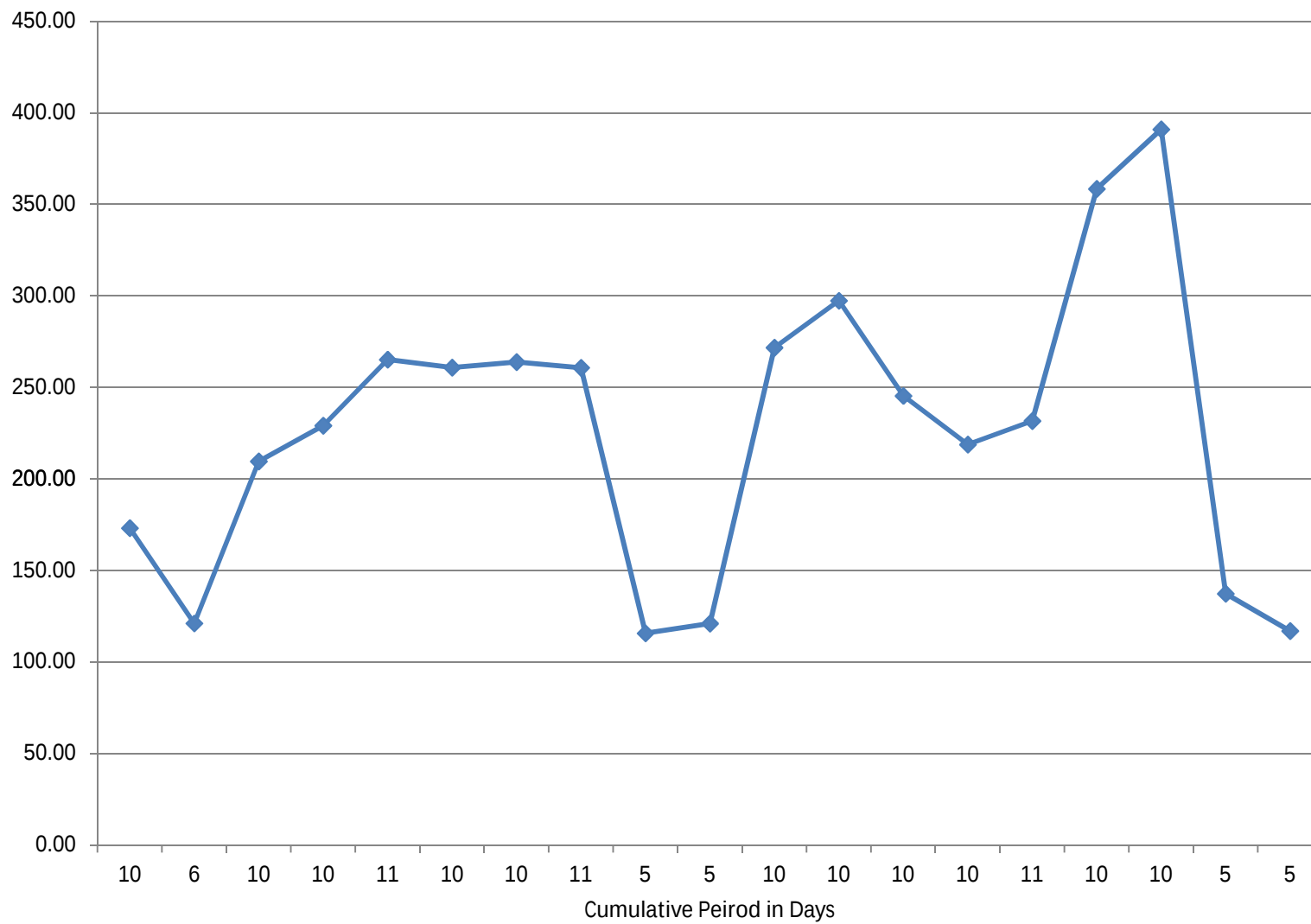
Discharge variation due to manual velocity measurement,

Max 50.25
Min 18.77

Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

South Koel
North Karo
Torpa

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

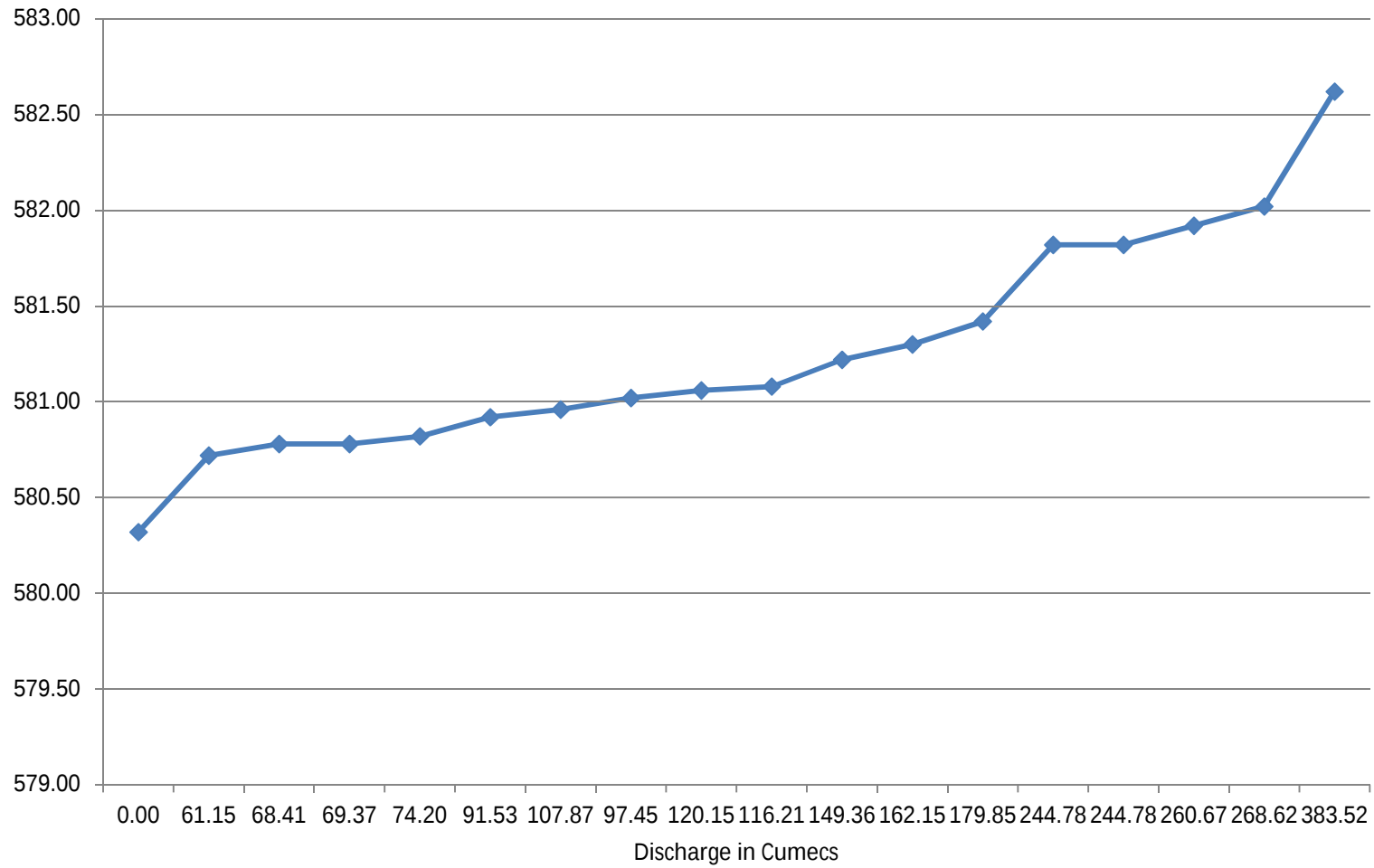
580.32

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			580.78	69.37	582.22	268.62	581.30	162.15	581.06	116.21	580.82	74.20
2			581.12	126.72	581.42	176.96	581.22	149.36	581.22	149.36	580.82	74.20
3			580.92	90.36	581.92	249.97	581.18	140.71	581.14	129.30	581.02	107.20
4			580.82	73.69	583.12	436.17	581.14	132.31	581.12	126.72	581.22	149.36
5			581.12	119.35	582.02	302.11	581.22	149.36	581.12	124.14	581.22	149.36
6			581.20	137.04	581.62	211.23	582.00	275.16	581.10	124.14	581.36	170.52
7			581.02	107.87	581.72	227.86	583.02	462.61	581.08	118.73	581.22	149.36
8			580.92	90.36	581.42	179.85	582.30	334.08	581.12	126.72	581.10	124.14
9			581.42	179.85	581.72	227.86	582.12	294.38	582.12	294.38	581.02	107.87
10			581.02	107.87	581.92	260.67	582.02	276.70	582.20	309.35	580.98	101.71
11			581.08	120.15	582.62	383.52	581.92	260.67	581.42	179.85	580.92	91.53
12			581.00	104.77	582.02	278.11	581.92	260.67	581.36	170.52	580.88	85.74
13			580.92	90.36	581.62	210.12	582.62	383.52	581.22	149.36	580.86	80.18
14			580.92	90.36	581.42	179.85	582.22	312.35	581.14	129.30	580.84	77.43
15			581.70	224.98	582.12	294.38	582.02	278.11	581.08	118.73	580.84	77.43
16	580.62	48.47	582.62	383.52	581.96	266.52	582.02	278.11	581.04	110.17	580.82	73.69
17	580.62	48.47	581.42	179.85	581.82	244.78	582.12	294.38	581.02	107.87	580.82	73.69
18	580.72	61.15	581.20	146.60	581.62	210.12	582.00	275.16	581.00	104.77	580.80	71.53
19	580.82	73.69	581.12	126.72	581.52	195.95	582.12	294.38	580.98	101.71	580.80	71.53
20	581.42	179.85	581.62	229.02	581.42	179.85	581.92	260.67	580.00	0.32	580.78	68.41
21	580.62	48.47	581.22	149.36	581.82	244.78	581.82	244.78	580.96	97.45	580.78	68.41
22	582.42	347.49	581.02	107.87	581.52	195.95	581.70	224.98	580.94	95.08	580.76	66.28
23	581.22	149.36	581.06	116.21	581.22	139.62	581.62	211.23	580.94	95.08	580.76	66.28
24	581.08	121.56	581.42	173.39	581.72	227.86	581.42	179.85	580.92	91.53	580.76	66.28
25	581.02	107.87	581.12	137.77	581.62	211.23	581.30	162.15	580.92	91.53	580.76	65.81
26	580.92	91.53	581.12	126.72	581.52	195.95	581.22	149.36	580.92	91.53	580.74	63.70
27	580.86	80.18	581.12	126.72	581.42	179.85	581.16	139.55	580.90	88.05	580.74	63.70
28	580.82	73.69	581.52	178.32	581.30	162.15	581.12	126.72	580.88	85.74	580.74	63.24
29	580.80	71.53	581.30	164.76	581.60	208.38	581.10	124.14	580.88	85.74	580.72	61.15
30	580.78	69.37	581.12	137.04	581.66	218.07	581.08	118.73	580.86	81.26	580.72	61.15
31			581.12	126.72	581.48	189.27			580.86	81.26		
Max		347.49		383.52		266.52		294.38		110.17		73.69
Min		48.47		69.37		139.62		118.73		0.32		61.15

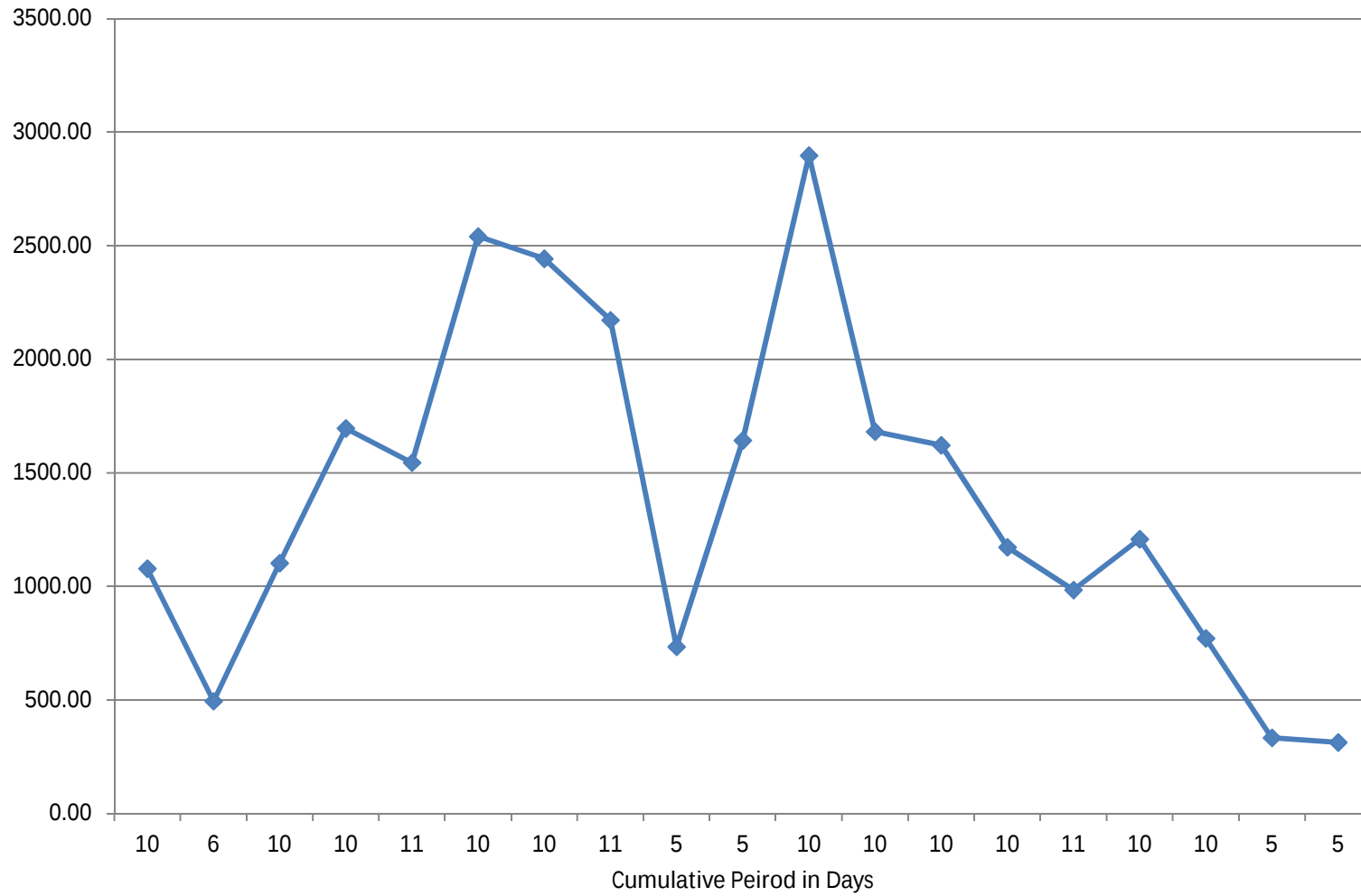
Discharge variation due to manual velocity measurement,

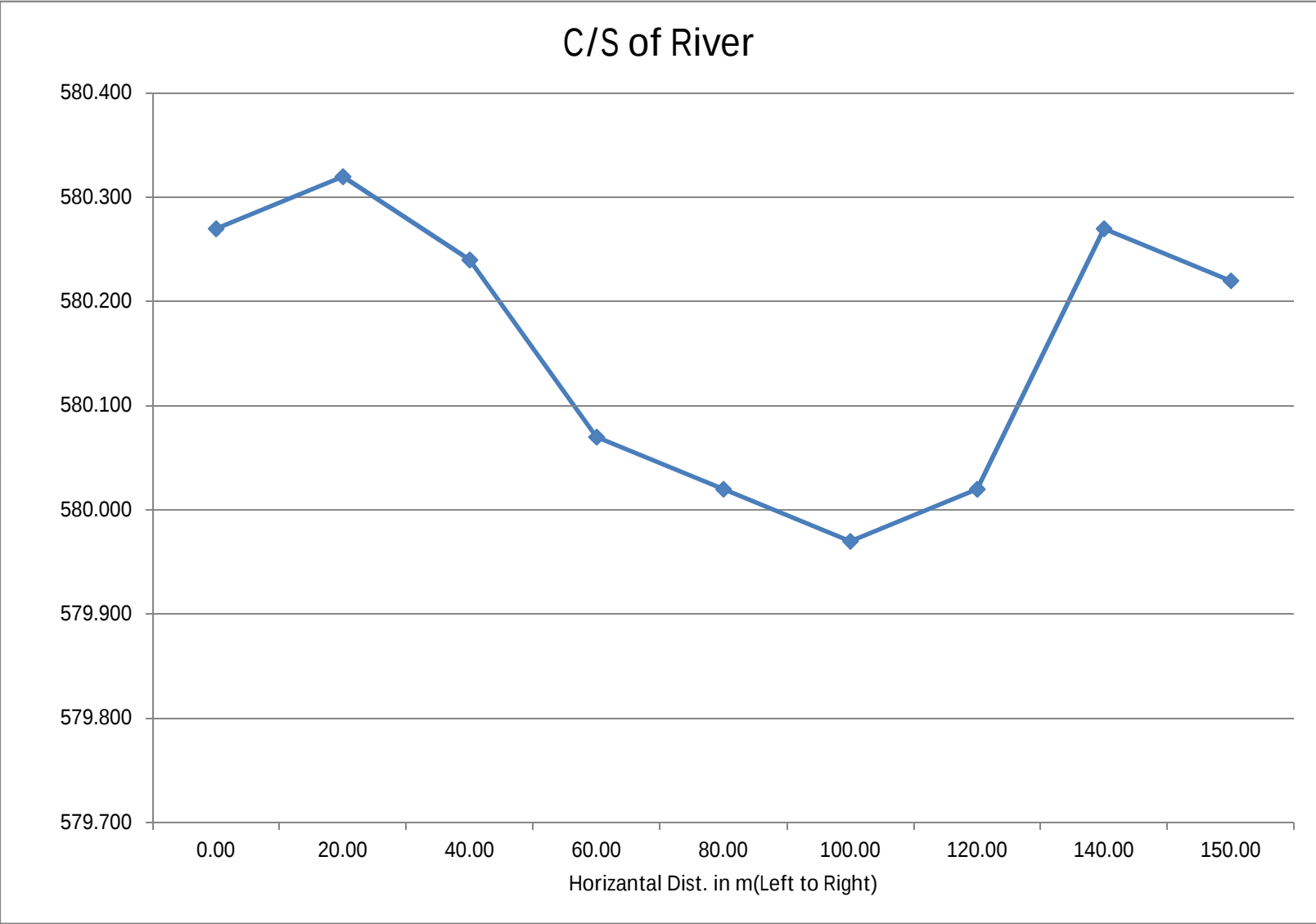
Max 383.52
Min 0.32

Stage Graph



Storm Hydrograph





SHANKH - BASIN

Basin
River
Site

Shankh
Shankh
Simdega kochedega Road

Water Level Data
2012-13

Catchment area
- Sqkm

Zero of the Gauge
Unit of Water Level
Unit of Discharge

438.65
M
Cum

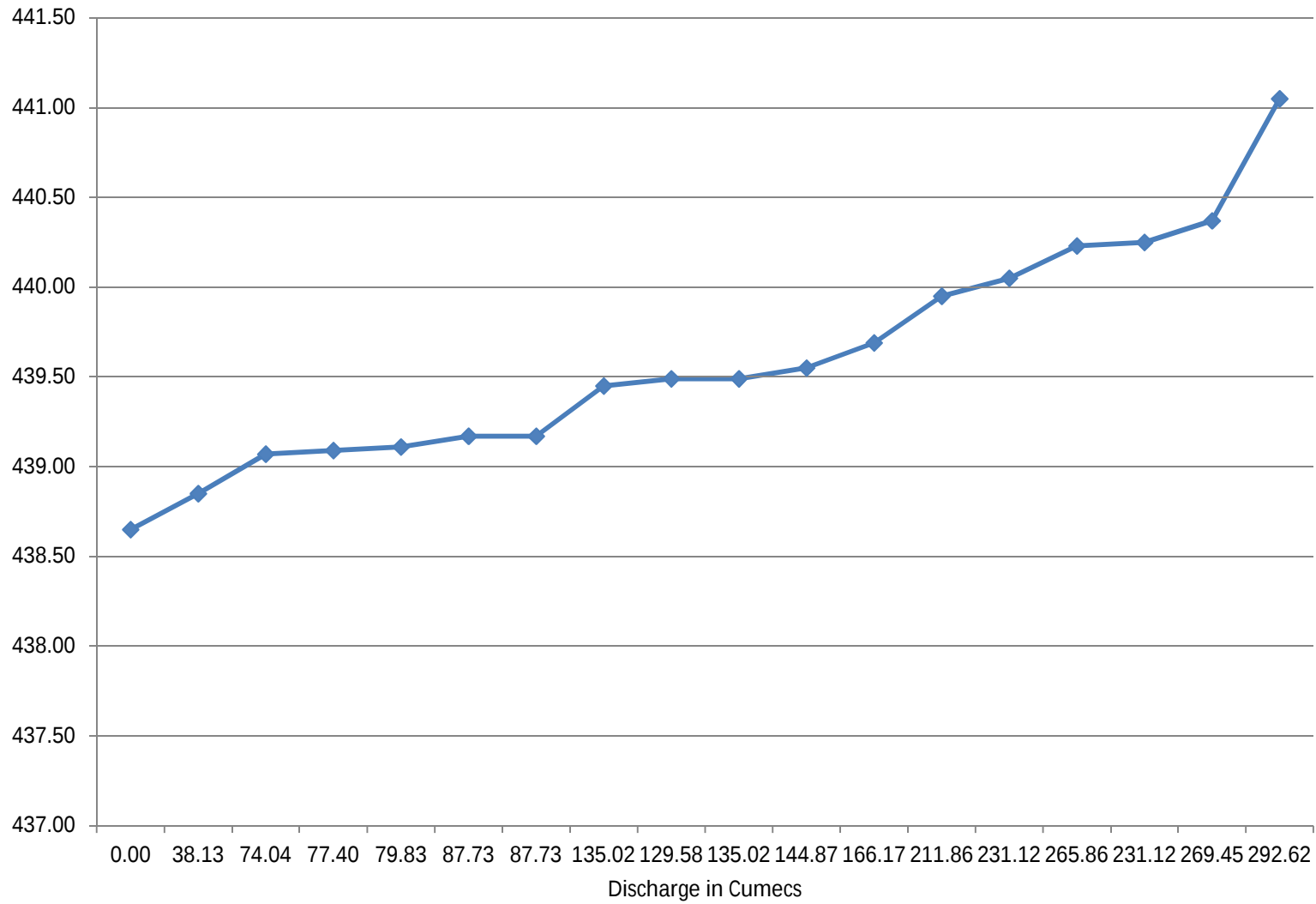
TOPO SHEET NO. -

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			438.85	38.13	440.05	231.12	439.55	144.87	439.49	135.02	439.11	79.83
2			438.83	36.46	440.45	312.11	439.45	129.58	439.73	172.99	439.13	82.26
3			438.83	36.46	440.75	403.10	439.47	132.30	439.75	176.01	439.27	101.39
4			438.95	48.75	441.65	564.88	439.45	129.58	439.65	160.47	439.45	129.58
5			439.55	144.87	441.05	492.43	439.51	138.55	439.47	132.30	439.43	126.86
6			439.29	106.55	440.25	269.45	440.75	403.10	439.45	129.58	439.53	142.11
7			439.35	115.30	440.15	248.71	440.55	330.48	439.41	122.68	439.49	135.82
8			439.25	98.77	439.99	218.54	440.45	308.75	439.31	109.24	439.39	119.99
9			440.40	299.67	439.73	172.99	440.45	308.75	439.29	106.55	439.27	101.39
10			439.79	183.26	439.89	199.58	440.37	292.62	439.31	109.24	439.19	90.90
11			439.69	166.17	440.05	231.12	440.23	265.86	439.49	135.02	439.17	87.73
12			439.72	171.52	440.45	312.11	440.15	248.71	439.49	135.02	439.15	85.21
13			439.29	104.02	440.25	269.45	440.23	265.86	439.41	122.68	439.15	85.21
14			439.37	118.00	440.05	231.12	440.33	285.39	439.33	111.93	439.15	85.21
15			439.25	98.77	439.87	196.28	440.25	269.45	439.29	106.55	439.13	82.76
16	438.85	38.13	440.01	221.88	440.09	243.34	440.23	265.86	439.25	98.77	439.13	82.76
17	438.85	38.13	439.71	169.08	440.25	269.45	440.45	308.75	439.25	98.77	439.11	79.83
18	438.85	38.13	439.95	210.67	440.05	231.12	440.35	289.00	439.25	98.77	439.11	79.83
19	438.89	41.81	439.55	144.87	439.93	208.53	440.41	301.48	439.21	93.52	439.09	77.40
20	439.01	58.48	439.45	129.58	439.77	180.14	440.45	308.75	439.19	90.90	439.09	77.40
21	439.33	113.26	439.95	211.86	440.25	269.45	440.37	292.62	439.17	87.73	439.09	77.40
22	440.33	286.95	439.51	138.55	440.07	234.49	440.27	273.05	439.15	85.21	439.09	77.40
23	440.59	352.35	439.35	115.30	440.21	260.82	440.03	227.74	439.15	85.21	439.09	77.40
24	439.61	154.90	439.25	98.77	440.11	241.61	439.83	189.68	439.17	87.73	439.07	74.04
25	439.45	129.58	439.95	211.86	440.11	241.61	439.65	160.47	439.17	87.73	439.07	74.04
26	439.45	129.58	440.09	238.05	440.13	245.16	439.57	147.62	439.15	85.21	439.07	74.04
27	439.45	129.58	439.95	211.86	440.05	231.12	439.47	132.30	439.15	85.21	439.07	74.04
28	439.29	104.65	439.45	129.58	440.11	241.61	439.45	129.58	439.13	82.76	439.07	74.04
29	439.11	78.84	439.35	115.30	440.05	231.12	439.43	126.12	439.13	82.76	439.07	74.04
30	438.93	47.00	439.45	129.58	439.97	216.41	439.41	122.68	439.11	79.83	439.07	74.04
31			440.35	290.58	439.65	160.47			439.11	79.83		
Max		352.35	299.67		564.88		403.10		176.01		142.11	
Min		38.13	36.46		160.47		122.68		79.83		74.04	

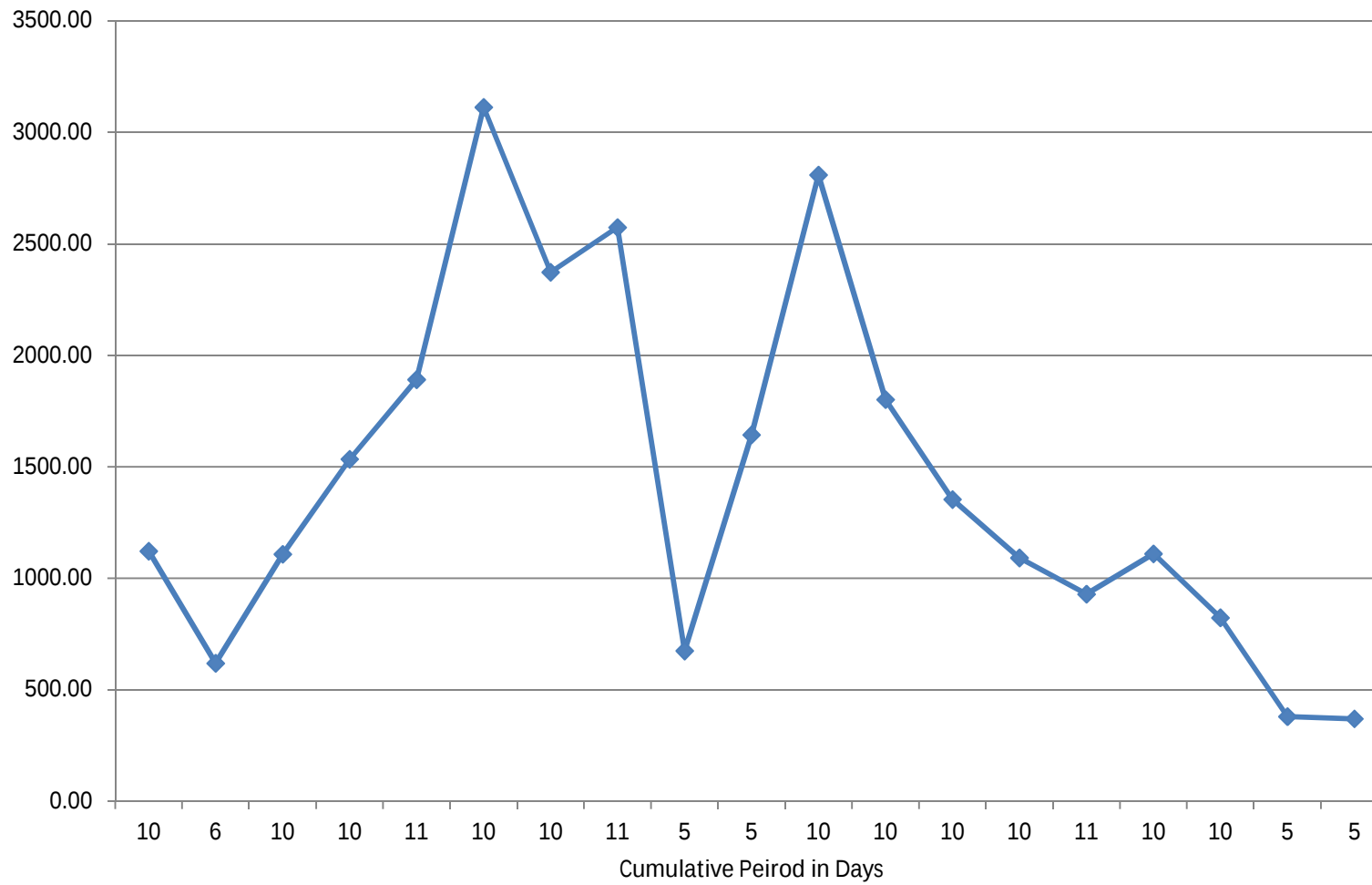
Discharge variation due to manual velocity measurement,

Max 564.88
Min 36.46

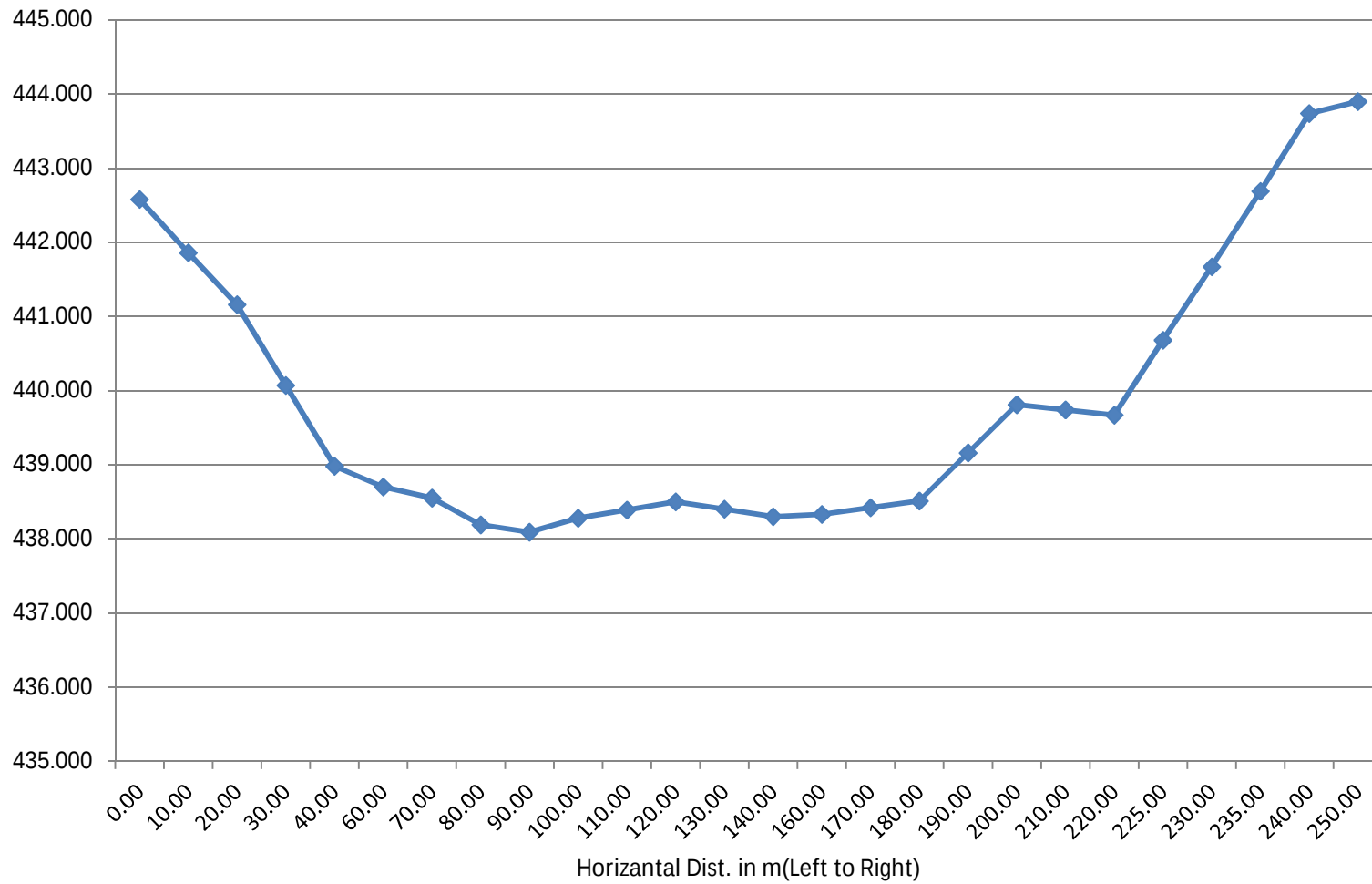
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Shankh
Shankh
Raidih

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level
Unit of Discharge

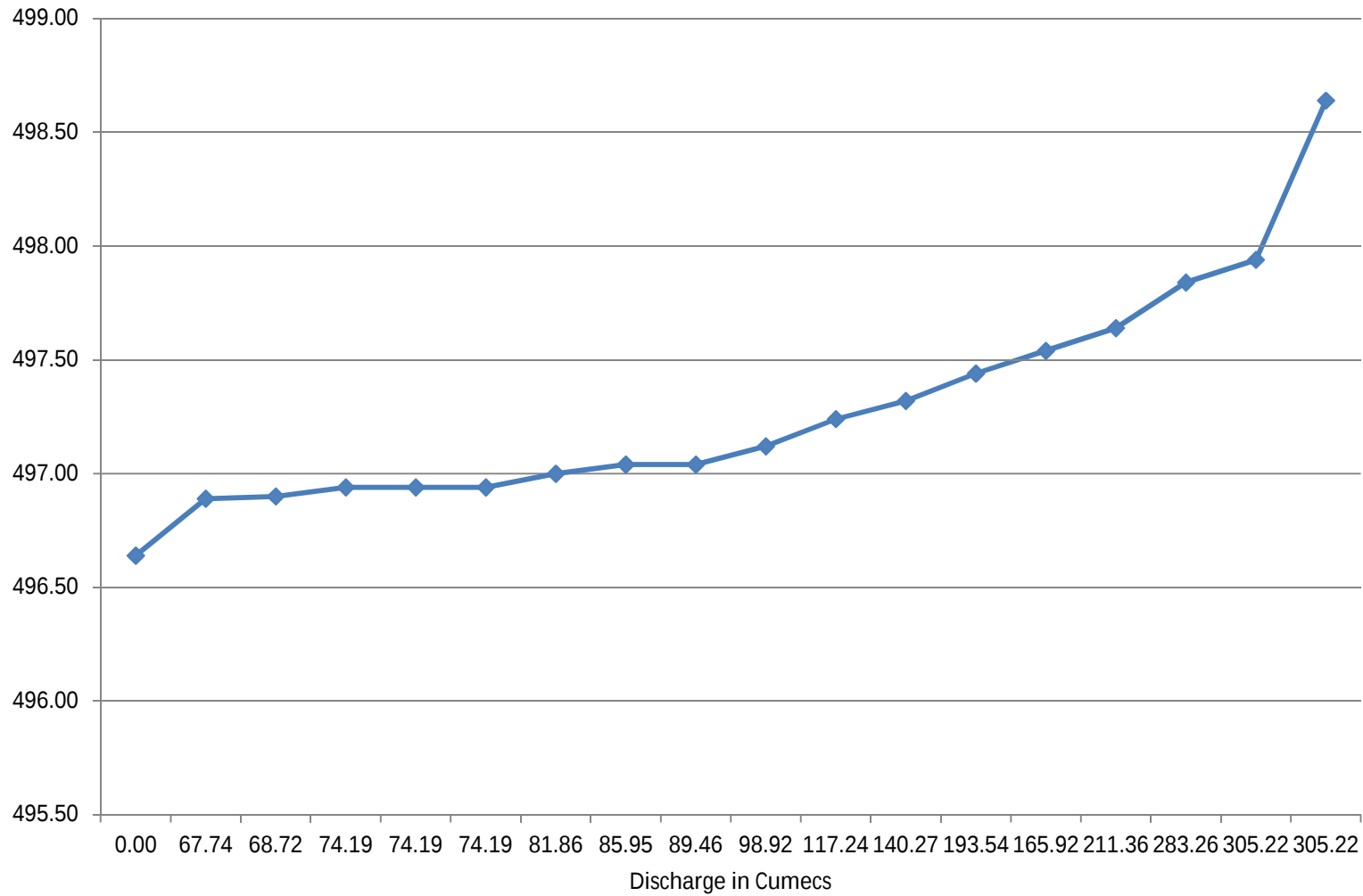
496.64
M
Cum

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			496.94	74.19	497.94	305.22	497.24	117.24	497.04	85.95	496.94	74.19
2			496.92	72.18	498.14	362.94	497.26	121.70	497.06	87.99	496.94	74.19
3			496.88	66.76	498.54	493.00	497.22	114.98	497.00	81.86	497.24	117.24
4			497.04	85.95	499.04	791.12	497.14	102.05	496.94	74.19	497.29	124.00
5			496.99	80.02	498.64	526.06	497.18	108.44	496.98	79.00	497.29	124.00
6			497.04	85.95	498.04	335.47	498.64	526.06	496.96	76.98	497.14	102.05
7			497.06	87.99	497.94	305.22	498.39	440.45	496.94	74.19	497.14	102.05
8			497.04	85.95	497.84	283.26	498.04	335.47	496.92	72.18	497.10	96.78
9			497.14	102.05	497.64	211.36	498.10	355.08	496.98	78.19	497.06	91.58
10			497.09	94.77	497.74	239.53	498.04	335.47	497.04	85.95	497.04	89.46
11			497.44	165.92	497.84	283.26	497.94	305.22	497.12	98.92	497.04	89.46
12			497.34	142.80	498.04	335.47	497.88	283.46	497.12	98.92	497.04	89.46
13			497.14	102.05	497.74	239.53	497.94	305.22	497.08	91.87	497.00	85.20
14			497.14	102.05	497.74	239.53	498.08	345.16	497.06	89.79	496.99	83.31
15			497.10	95.84	497.64	211.36	497.84	276.36	497.04	87.70	496.99	83.31
16	496.74	41.08	497.64	211.36	497.44	165.92	497.64	211.36	497.04	87.70	496.99	83.31
17	496.74	41.08	497.54	190.74	497.34	147.56	498.04	335.47	497.02	84.76	496.98	82.26
18	496.74	41.08	497.24	117.24	497.14	102.05	497.94	305.22	497.02	84.76	496.94	74.19
19	496.74	41.08	497.14	102.05	497.66	214.41	497.74	239.53	497.04	86.83	496.94	74.19
20	496.94	74.19	497.24	117.24	497.36	150.19	497.64	211.36	497.04	86.83	496.94	74.19
21	496.90	68.72	497.64	211.36	497.32	140.27	497.54	193.54	497.00	81.86	496.94	74.19
22	496.94	74.19	497.44	165.92	497.14	102.05	497.36	148.98	496.98	79.00	496.92	71.43
23	496.94	74.19	497.24	117.24	497.38	150.36	497.32	142.61	496.98	79.00	496.92	71.43
24	496.94	74.19	497.14	102.05	497.44	165.92	497.14	102.05	496.96	76.19	496.92	71.43
25	496.89	67.74	497.84	283.26	497.18	108.44	497.14	102.05	496.94	74.19	496.92	71.43
26	497.04	85.95	497.74	239.53	497.22	113.92	497.04	85.95	496.94	74.19	496.92	71.43
27	497.04	85.95	497.44	165.92	497.52	187.85	496.94	74.19	496.94	74.19	496.90	68.72
28	496.99	80.02	497.34	147.56	497.24	117.24	496.92	72.18	496.92	72.18	496.90	68.72
29	496.94	74.19	497.24	117.24	497.34	145.18	496.90	68.72	496.90	70.18	496.90	68.72
30	496.92	72.18	497.14	102.05	497.34	145.18	496.92	70.68	496.88	66.76	496.90	68.72
31			498.14	214.47	497.24	117.24			496.94	74.19		
Max		85.95	283.26		214.41		335.47		87.70		83.31	
Min		41.08	66.76		102.05		68.72		66.76		68.72	

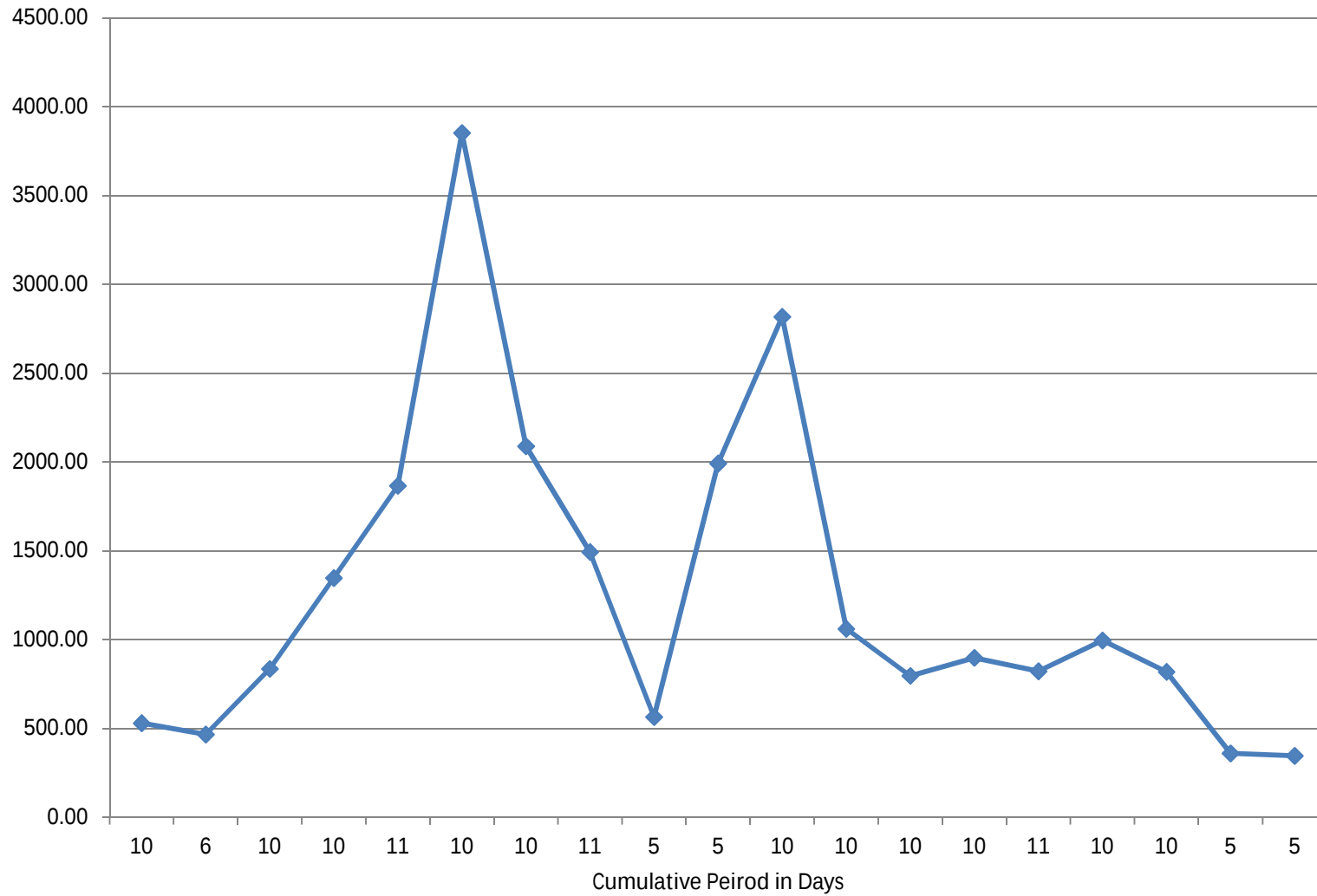
Discharge variation due to manual velocity measurement,

Max 335.47
Min 41.08

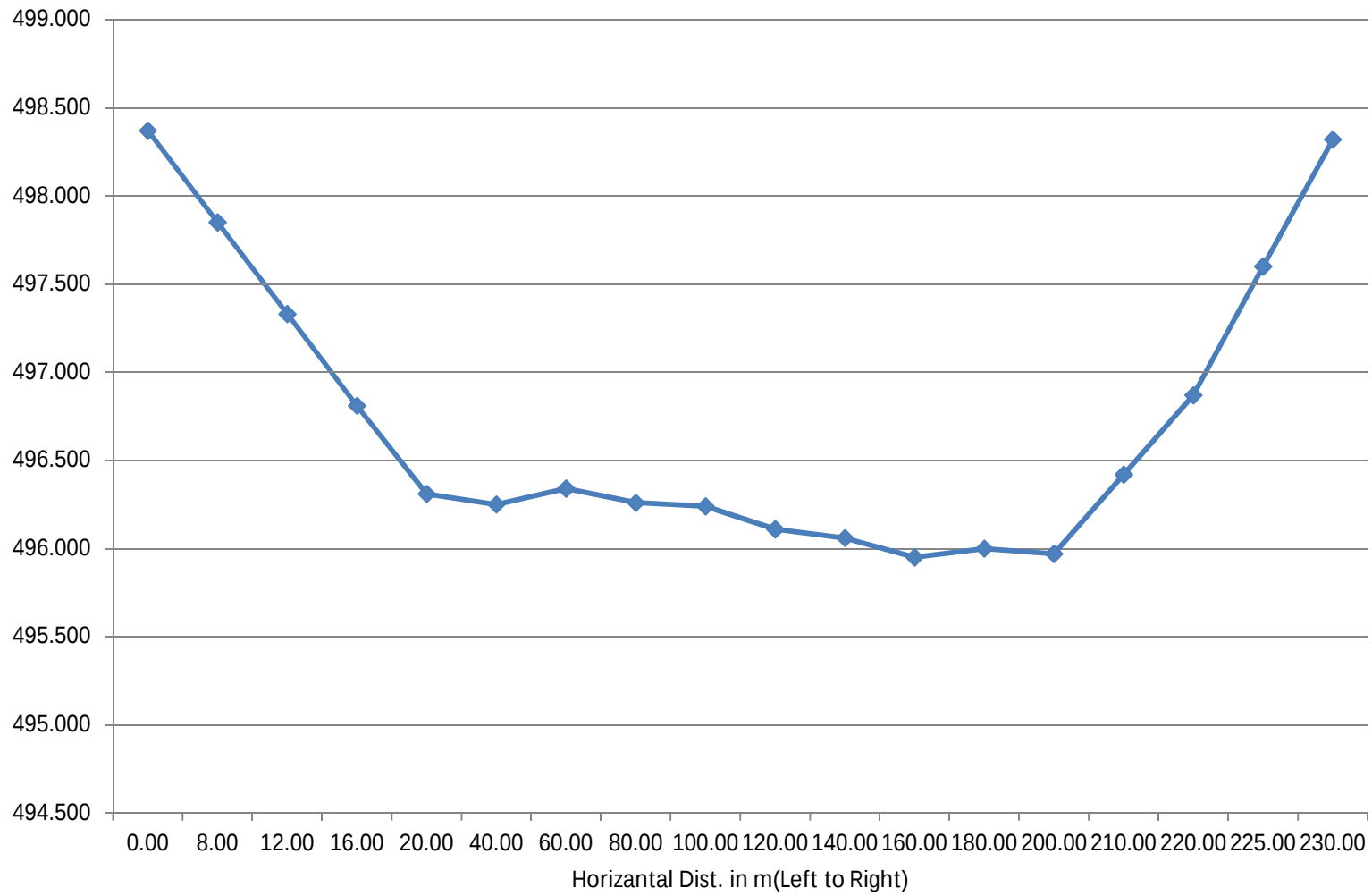
Stage Graph



Storm Hydrograph



C/S of River



NORTH KOEL - BASIN

Basin North Koel Water Level Data Zero of the Gauge 206
River North Koel 2012-13
Site Dalton Ganj Road Bridge Catchment area - Sqkm Unit of Water Level M
Unit of Discharge Cum
TOPO SHEET NO. -

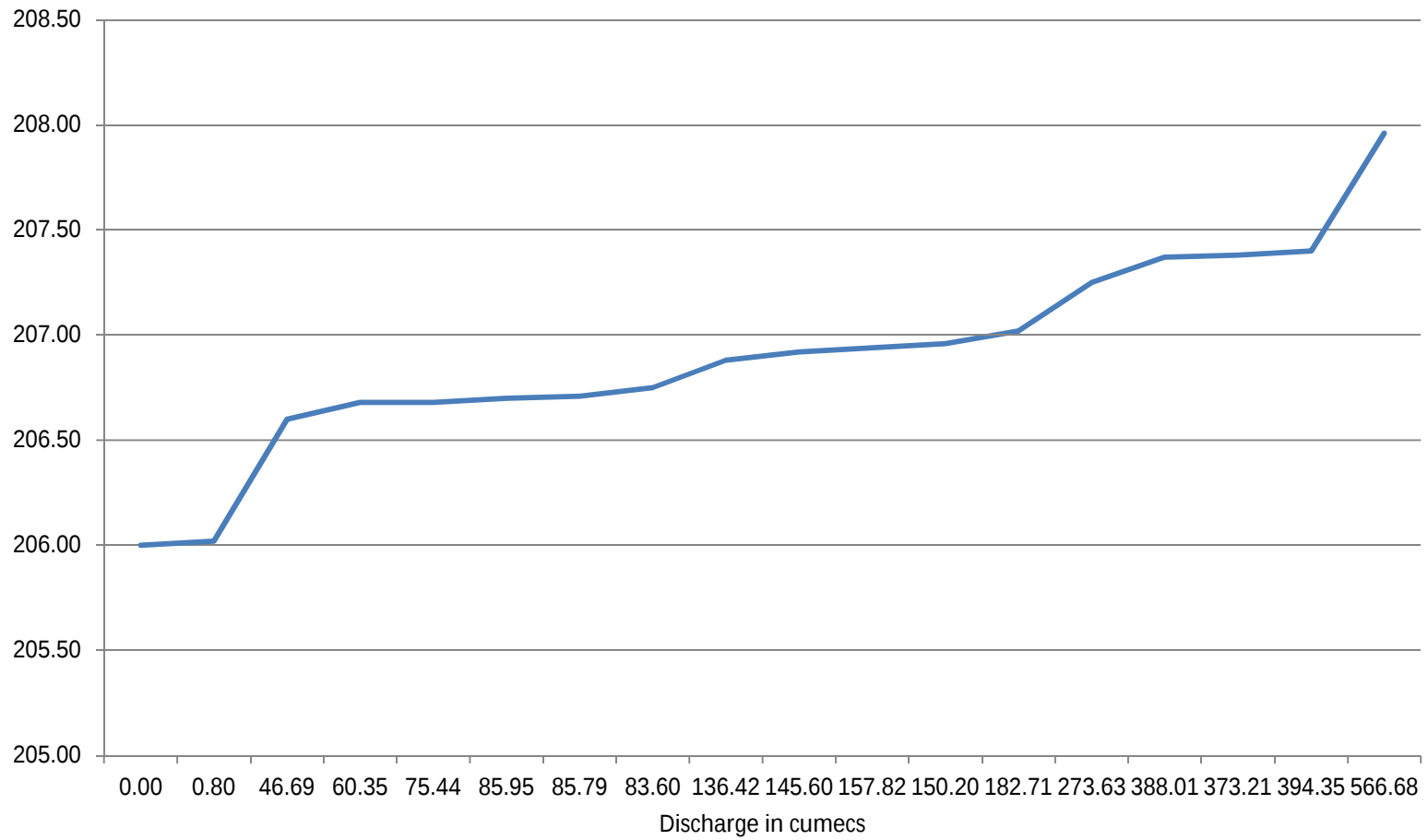
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			206.02	0.80	207.64	566.68	206.94	150.20	207.02	182.71	206.68	75.44
2			206.02	0.80	207.64	566.68	206.92	145.60	207.20	257.10	206.68	75.44
3			206.04	1.60	207.64	566.68	206.96	154.79	207.02	182.71	206.68	75.44
4			206.06	2.40	207.67	603.20	206.96	154.79	207.04	188.59	206.94	150.20
5			206.10	4.00	207.96	906.19	206.94	150.20	207.10	215.62	207.20	246.39
6			206.94	144.31	207.28	295.44	206.94	150.20	207.02	182.71	207.06	203.32
7			207.02	172.74	207.24	281.56	207.80	724.88	206.98	162.50	207.06	203.32
8			207.13	224.85	207.08	209.47	207.26	311.58	206.92	145.60	207.02	182.71
9			206.96	148.72	206.94	291.55	207.12	221.78	206.92	145.60	206.96	157.82
10			207.04	178.31	207.18	250.68	207.32	311.19	206.92	145.60	206.90	141.02
11			206.70	85.79	207.40	388.01	207.37	373.21	206.92	145.60	206.88	136.42
12			207.46	441.48	207.36	368.27	207.27	315.33	206.96	157.82	206.84	118.51
13			207.46	441.48	207.35	363.33	207.24	304.09	206.94	153.14	206.78	100.13
14			206.89	131.92	207.38	378.14	207.46	441.48	206.91	146.12	206.72	87.97
15			206.87	126.24	207.42	403.56	207.24	304.09	206.88	139.10	206.70	83.92
16	0.00	0.00	207.44	431.05	207.60	525.60	207.57	508.50	206.84	127.25	206.64	67.79
17	0.00	0.00	207.43	425.83	207.26	311.58	207.86	786.10	206.80	118.07	206.62	60.20
18	0.00	0.00	207.42	420.62	208.02	938.95	208.26	1147.41	206.78	102.35	206.58	46.38
19	0.00	0.00	206.83	120.05	207.34	358.40	207.64	511.84	206.78	102.35	206.52	35.10
20	0.00	0.00	206.72	78.20	207.08	209.47	207.44	431.05	206.77	100.28	206.50	32.50
21	206.57	42.24	206.75	83.60	206.96	157.82	207.38	394.35	206.71	85.95	206.60	46.69
22	206.96	157.82	206.67	69.20	207.06	185.64	207.18	271.57	206.76	96.07	206.74	69.53
23	207.96	896.45	206.67	69.20	207.04	180.02	207.14	257.66	206.76	96.07	206.75	71.06
24	207.73	655.67	206.60	56.60	206.94	151.67	207.08	209.47	206.76	96.07	206.73	68.00
25	207.25	273.63	207.46	441.48	206.98	160.94	207.02	182.71	206.75	94.05	206.72	66.47
26	206.76	98.21	207.17	247.47	207.14	237.84	206.98	164.06	206.75	94.05	206.72	66.47
27	206.35	16.80	207.05	200.24	207.26	300.04	206.94	154.61	206.74	92.03	206.70	63.41
28	206.25	11.75	207.20	257.10	207.06	185.64	206.94	154.61	206.74	92.03	206.70	63.41
29	206.04	1.60	207.60	546.62	206.98	164.06	206.94	154.61	206.72	87.97	206.69	61.88
30	206.04	1.60	207.93	875.47	206.96	159.34	206.94	154.61	206.70	83.92	206.68	60.35
31			207.76	699.04	206.98	164.06			206.70	83.92		

Max. 896.45 875.47 938.95 1147.41 257.10 246.39
Min. 1.60 0.80 151.67 145.60 83.92 32.50

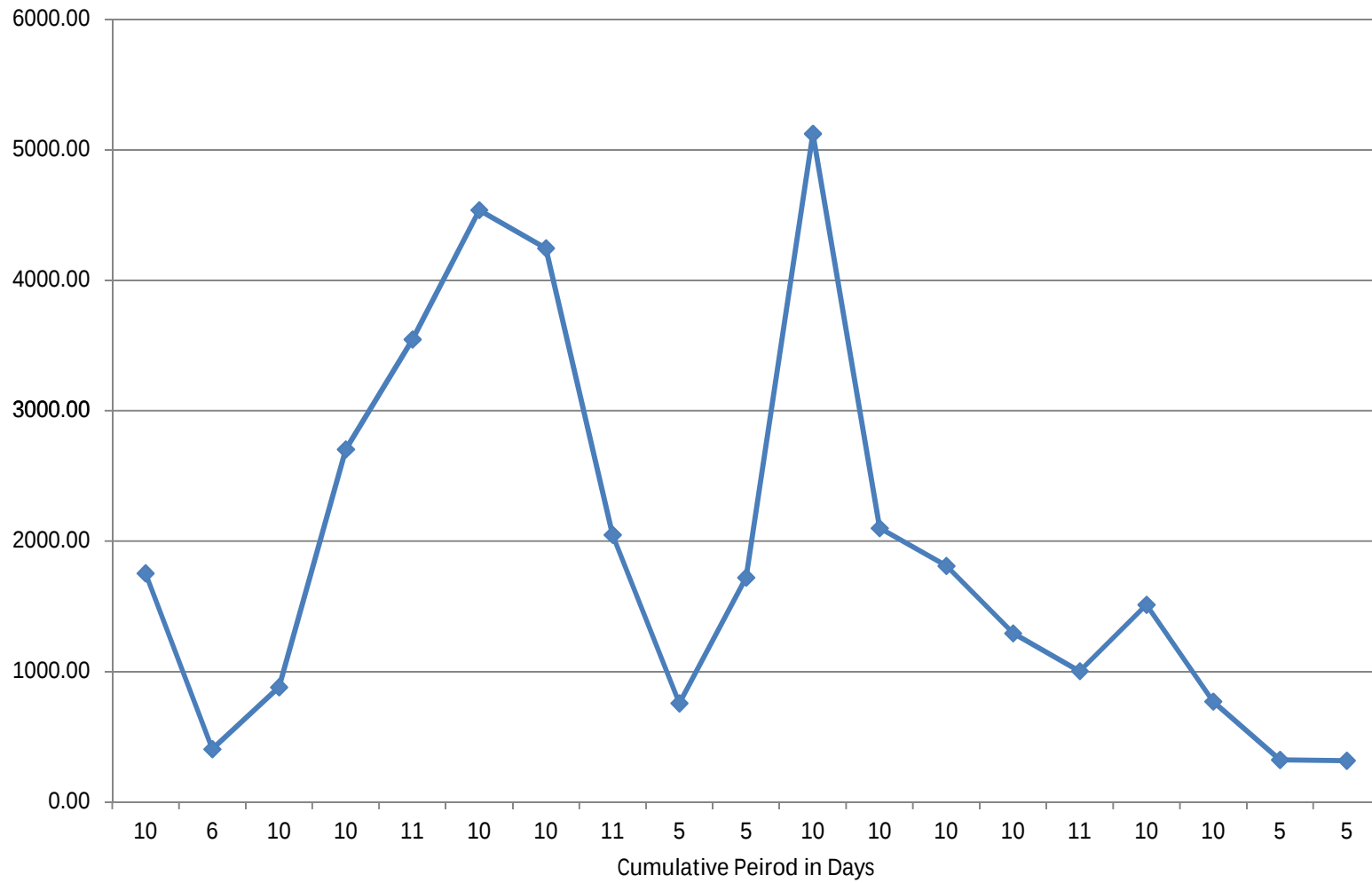
Max 1147.41
Min 0.80

Discharge variation due to manual velocity measurement,

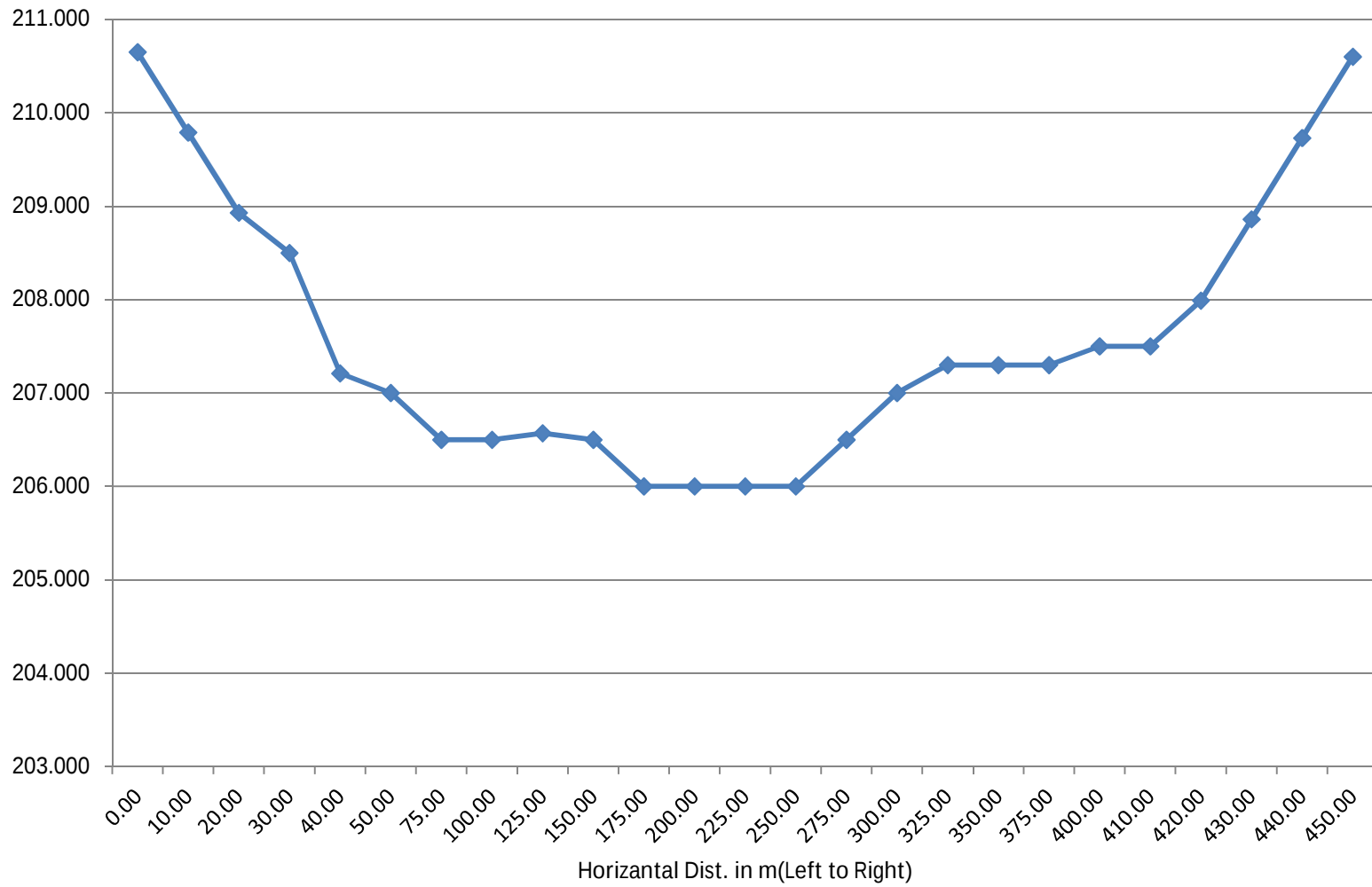
Stage Graph



Storm Hydrograph



C/S of River



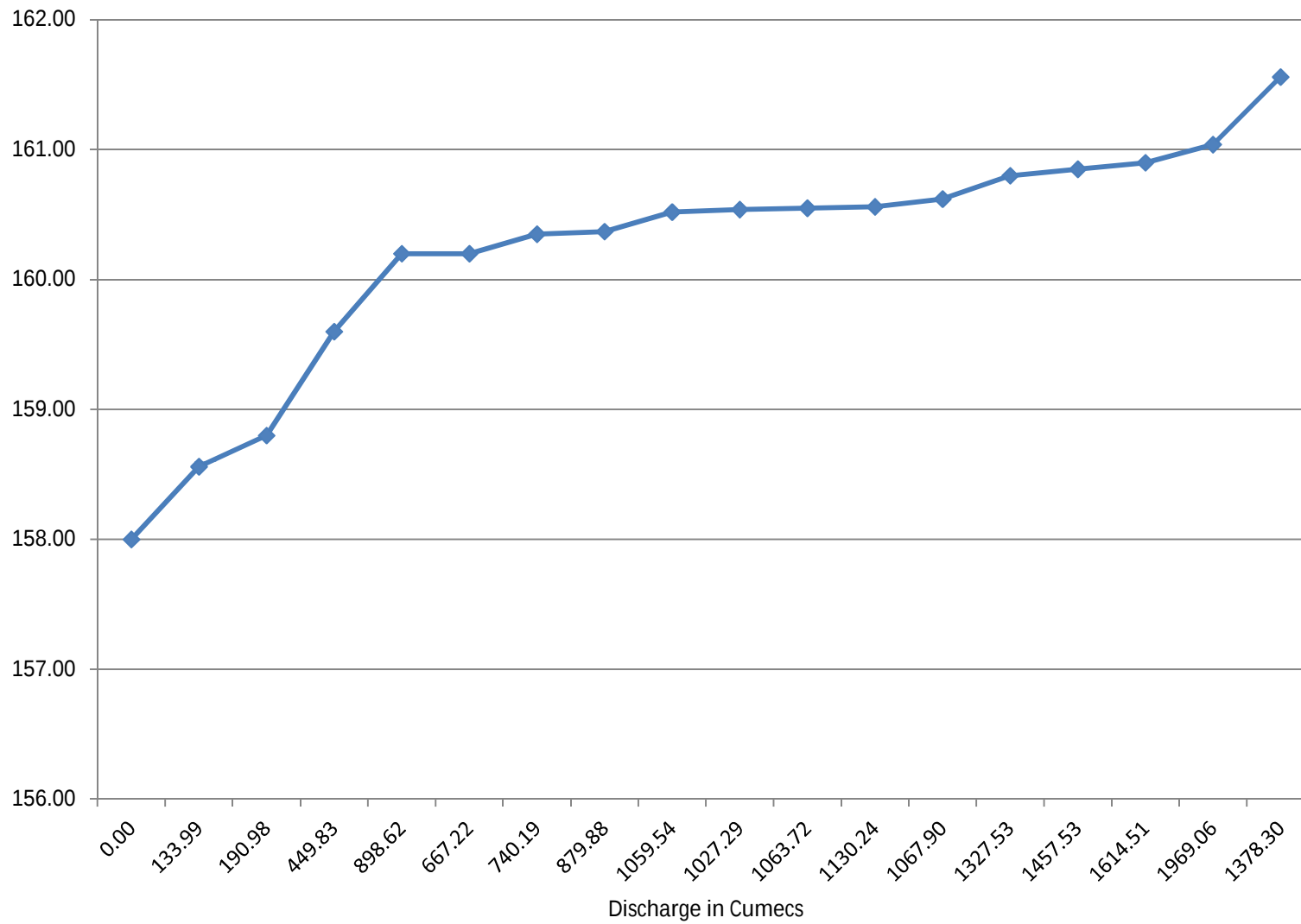
M
Cum

—

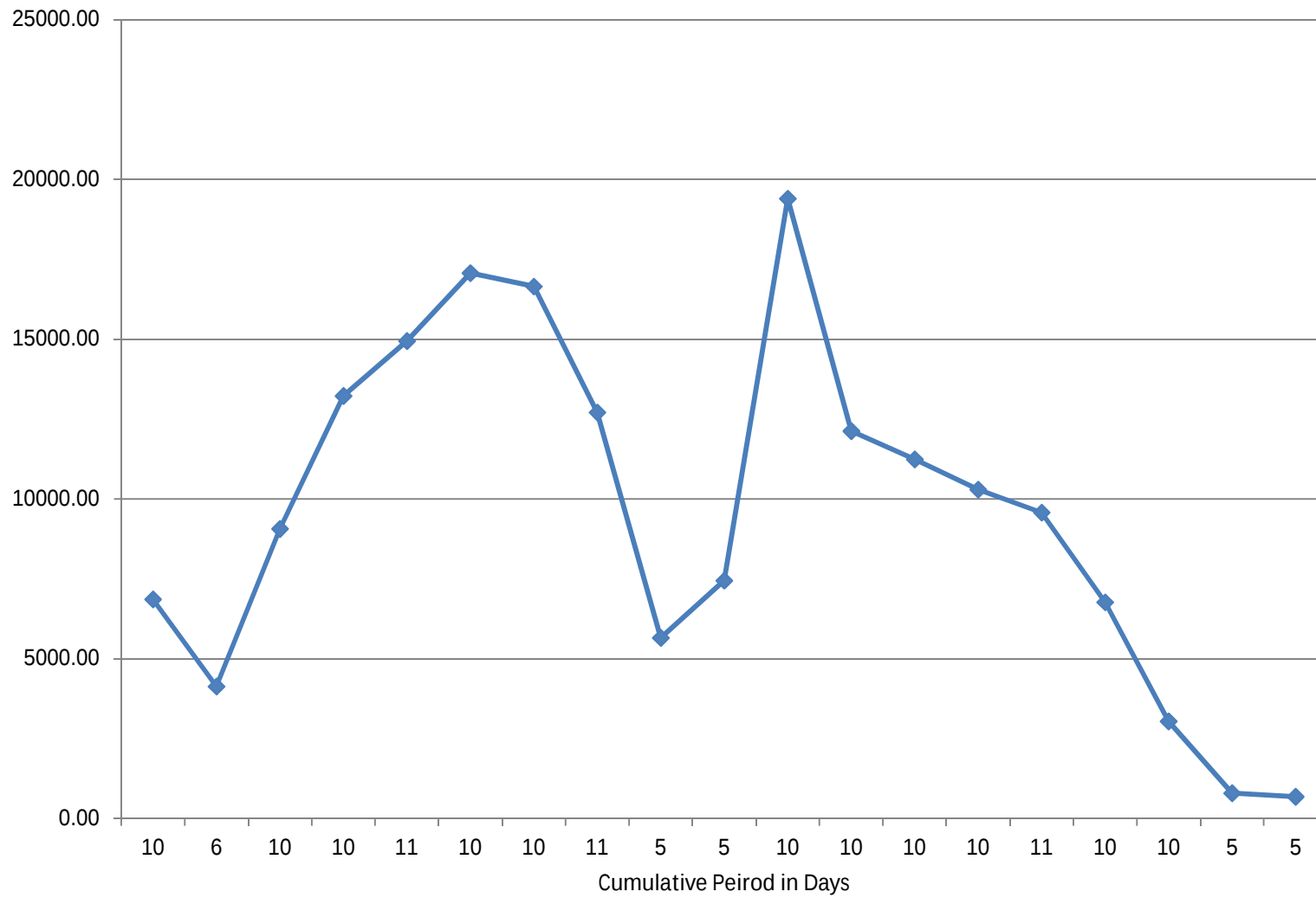
2912.86	2563.21	2928.46	3438.86	1554.33	952.25
327.43	507.63	1059.54	1039.24	846.63	133.99

Discharge variation due to manual velocity

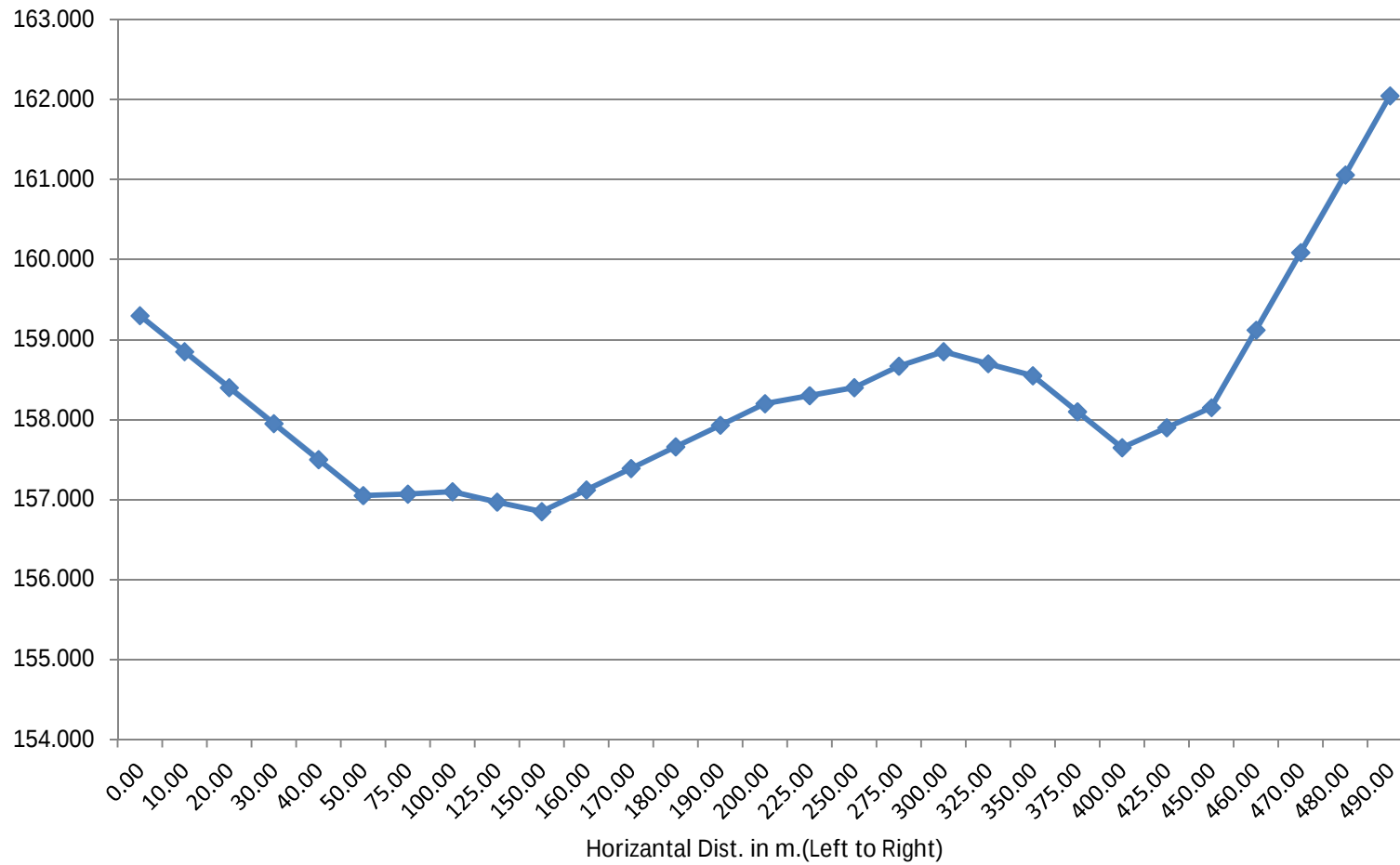
Stage Graph



Storm Hydrograph



C/S of River



Basin NorthKoel Water Level Data Zero of the Gauge 207
River Amanat 2012-13
Site Singra Catchment area - Sqkm Unit of Water Level M
Unit of Discharge Cum
TOPO SHEET NO. -

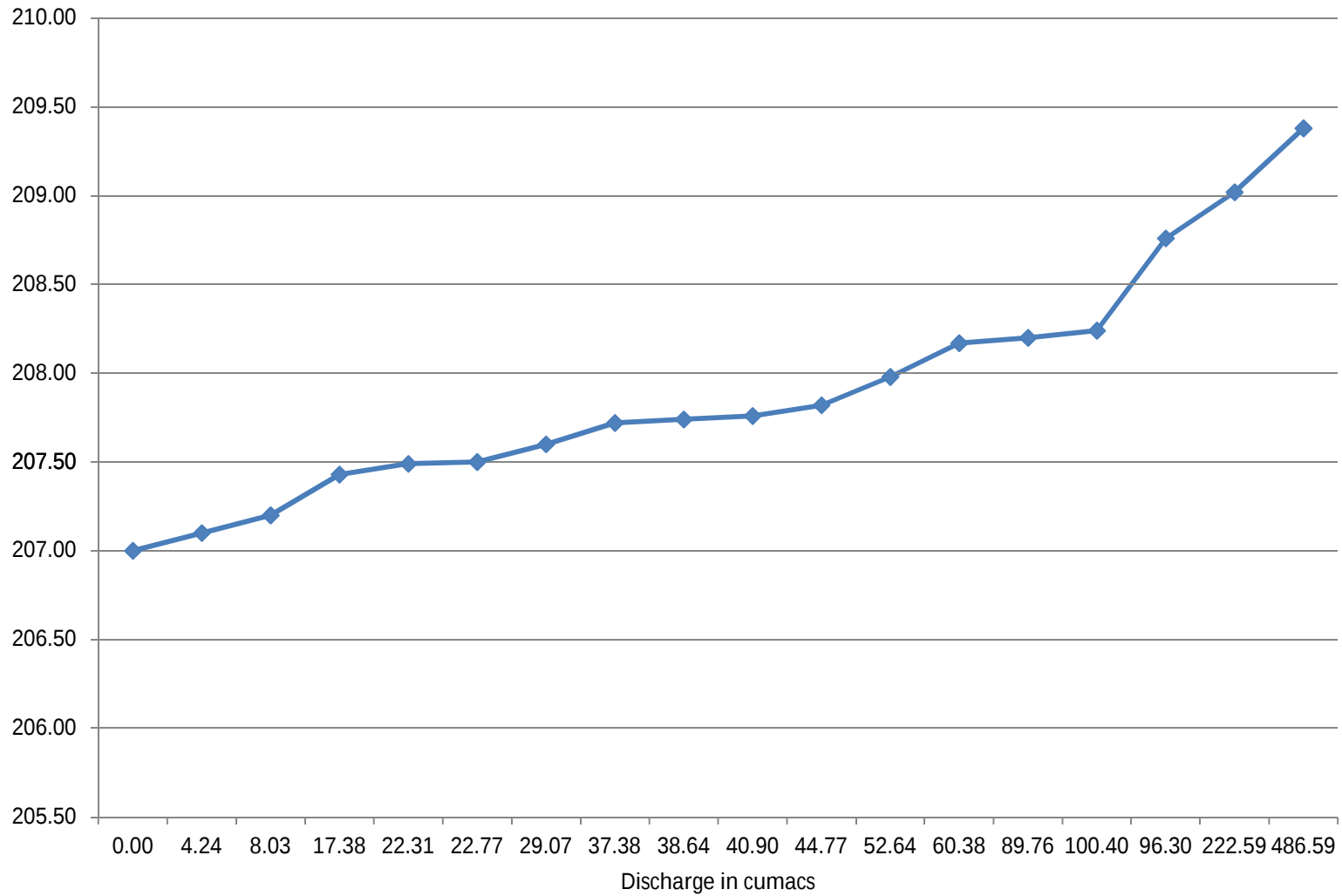
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			207.10	4.24	207.90	52.64	207.76	40.90	207.74	38.64	207.43	17.38
2			207.10	4.24	207.88	49.99	207.70	36.20	208.00	62.01	207.48	21.24
3			207.10	4.24	207.92	54.23	207.89	51.91	207.86	48.56	207.52	24.38
4			207.12	4.82	208.80	234.85	207.80	43.48	207.88	49.99	207.72	37.38
5			207.14	5.77	209.02	294.74	207.76	40.90	207.94	57.12	208.08	63.85
6			207.74	38.64	209.18	376.48	207.70	36.20	207.86	48.56	208.30	114.45
7			207.86	48.56	209.22	392.78	208.40	136.51	207.80	43.48	208.28	110.31
8			207.70	36.20	209.06	308.99	208.02	63.64	207.78	42.19	208.25	105.18
9			207.70	36.20	208.92	267.16	207.92	54.23	207.74	38.64	208.23	99.37
10			207.82	44.77	209.04	298.36	208.08	68.52	207.72	37.38	208.25	105.18
11			207.60	29.07	209.38	486.59	208.76	222.59	207.72	37.38	208.24	100.40
12			208.26	60.71	209.00	291.13	208.72	210.66	207.77	41.54	208.23	99.37
13			208.30	63.14	208.60	184.81	208.80	234.85	207.77	41.54	208.24	100.40
14			207.64	32.02	208.04	65.26	208.76	222.59	207.67	33.66	208.25	105.18
15			207.70	36.20	207.80	43.48	208.62	187.69	207.61	29.60	208.24	100.40
16	0.00	0.00	207.75	40.25	207.80	43.48	208.34	120.94	207.52	23.72	208.24	100.40
17	0.00	0.00	207.80	43.48	207.48	21.85	208.44	143.79	207.52	23.72	208.24	100.40
18	0.00	0.00	207.76	40.90	208.50	160.94	208.72	210.66	207.50	22.77	208.25	105.18
19	0.00	0.00	207.22	8.73	207.88	49.99	208.34	120.94	207.50	22.77	208.26	106.25
20	0.00	0.00	207.16	6.42	207.80	43.48	208.14	85.13	207.49	22.31	208.25	105.18
21	207.50	22.77	207.20	8.03	207.82	44.77	207.98	60.38	207.49	22.31	208.20	96.30
22	207.52	23.72	207.14	5.77	207.94	55.82	207.94	57.12	207.48	21.85	208.20	96.30
23	207.74	38.64	207.14	5.77	207.94	55.82	207.92	54.23	207.48	21.85	208.19	93.51
24	207.60	29.07	207.18	7.10	207.84	47.19	207.86	49.72	207.48	21.85	208.19	93.51
25	207.50	22.77	207.78	42.19	207.86	48.56	207.80	43.48	207.47	20.80	208.20	96.30
26	207.40	17.68	207.60	29.07	207.98	60.38	207.78	42.19	207.47	20.80	208.19	93.51
27	207.30	12.08	207.40	17.17	208.10	71.74	207.74	38.64	207.46	20.35	208.18	92.50
28	207.26	10.48	207.52	23.72	207.90	52.64	207.72	37.38	207.46	20.35	208.18	92.50
29	207.29	11.67	207.92	54.23	207.86	48.56	207.70	36.20	207.44	17.79	208.17	89.76
30	207.14	5.77	208.22	56.46	207.80	43.48	207.68	34.20	207.43	17.38	208.17	89.76
31			208.00	62.01	207.80	43.48			207.43	17.38		

Max 38.64 63.14 486.59 234.85 62.01 114.45
Min 5.77 5.77 43.48 34.20 17.38 89.76

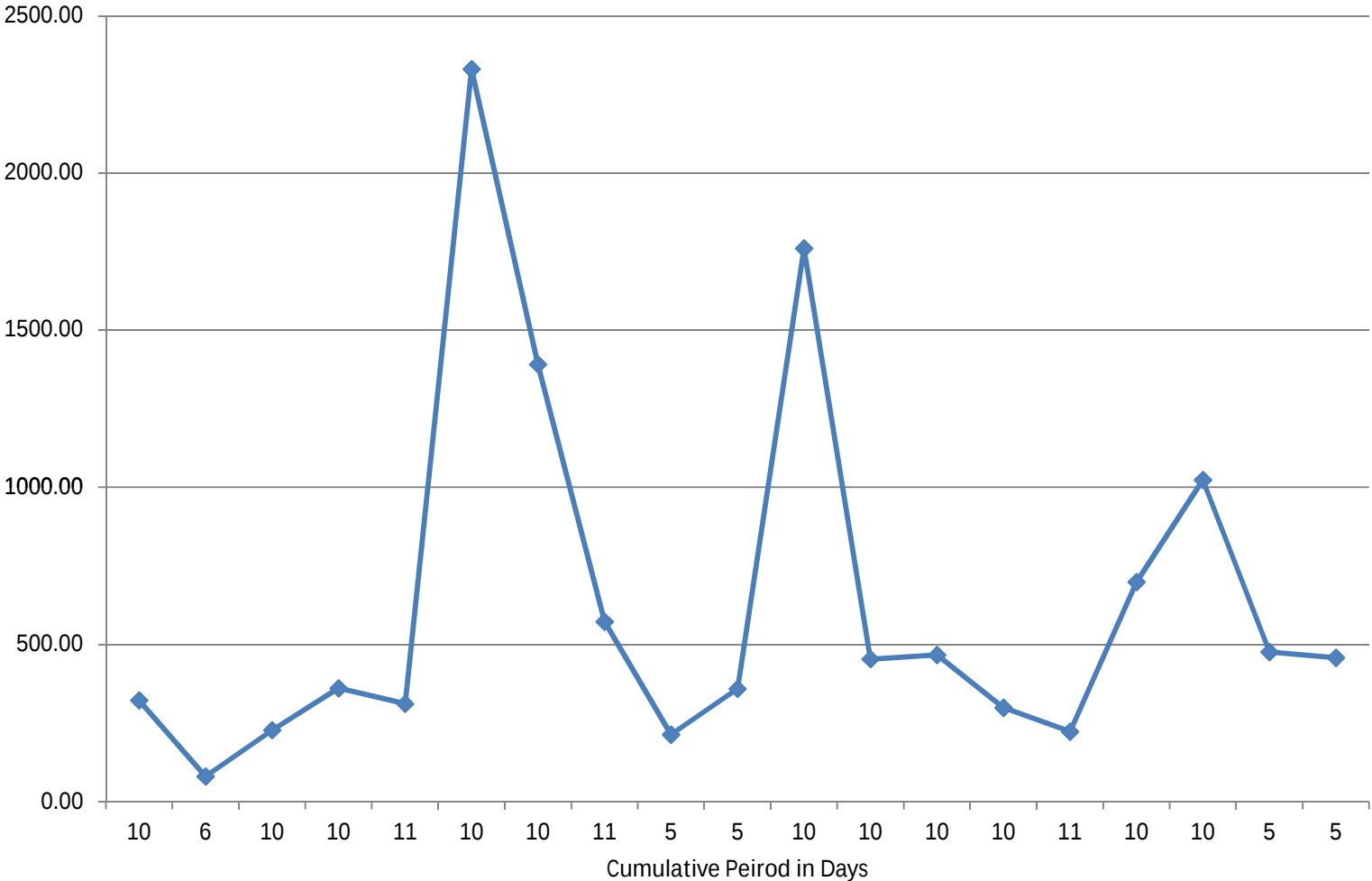
Max 486.59
Min 5.77

Discharge variation due to manual velocity measurement,

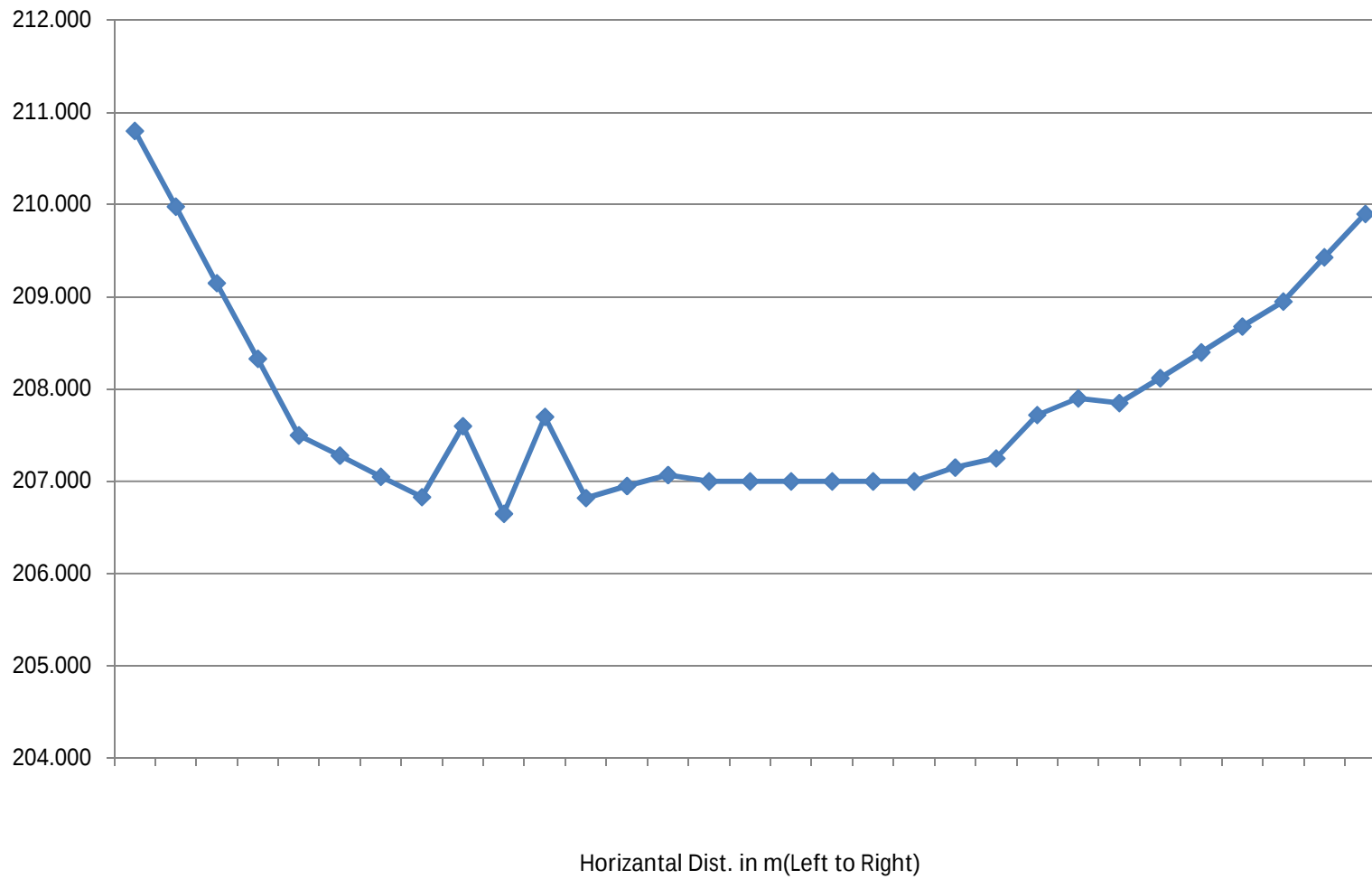
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

North Koel
Auranga
Kechki

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

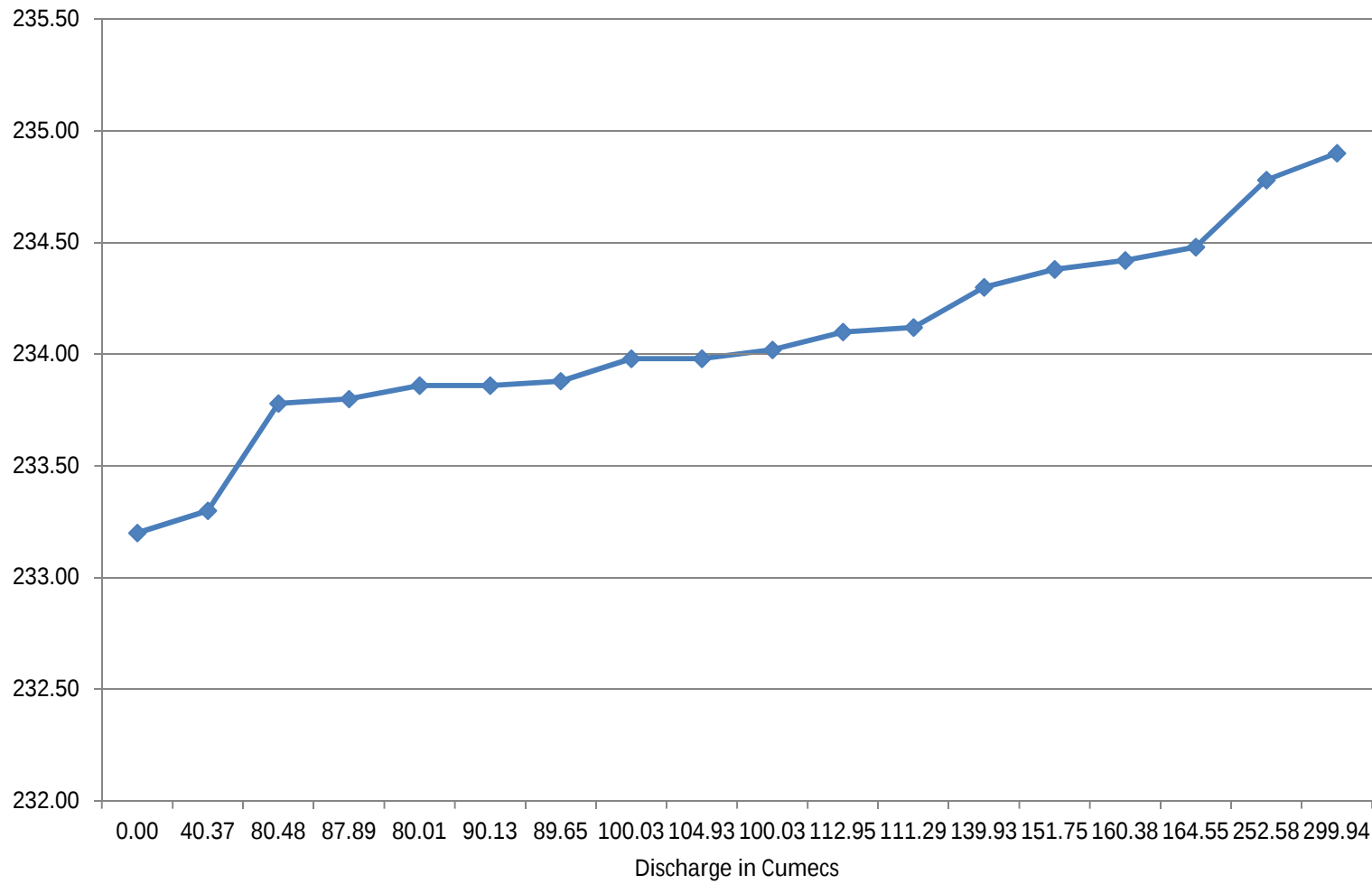
233.2

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			233.30	40.37	234.90	299.94	234.30	139.93	234.12	111.29	233.80	80.48
2			233.28	39.33	234.90	299.94	234.10	112.95	234.32	129.64	233.80	80.48
3			233.32	41.41	235.00	429.69	234.02	103.94	234.12	125.07	233.80	80.48
4			233.32	41.41	235.04	465.01	234.06	106.88	234.10	112.95	234.04	96.37
5			233.34	42.98	234.90	299.94	234.04	105.41	234.26	125.05	234.30	125.70
6			233.40	47.85	234.60	185.48	234.08	108.35	234.12	122.95	234.16	128.37
7			233.56	59.52	234.70	219.06	234.90	326.03	234.08	111.44	234.16	119.67
8			233.74	76.60	234.64	192.31	234.36	152.44	234.02	105.92	234.12	116.59
9			233.70	73.23	234.60	185.48	234.22	132.20	234.02	104.93	234.08	111.44
10			233.88	87.45	234.66	192.87	234.54	186.34	234.02	104.93	234.00	104.42
11			233.78	80.01	234.78	252.58	234.48	164.55	234.02	104.93	233.98	100.03
12			234.16	119.67	234.76	244.02	234.38	151.75	234.06	107.89	233.98	100.03
13			234.26	134.31	234.74	240.11	234.24	132.69	234.02	105.92	233.96	98.58
14			234.16	119.67	234.76	244.02	234.56	170.52	233.96	100.47	233.96	98.58
15			234.00	101.49	234.84	278.98	234.24	128.11	233.92	95.67	233.96	98.58
16			234.40	153.52	234.70	219.06	234.66	214.62	233.90	93.31	233.94	97.12
17			234.56	178.77	234.52	172.21	234.96	368.53	233.90	92.40	233.92	94.75
18			234.54	167.30	234.90	299.94	235.26	674.95	233.88	91.02	233.90	93.31
19			234.14	120.27	234.56	176.02	234.74	226.52	233.88	91.02	233.90	92.40
20			234.06	107.89	234.44	159.63	234.54	171.38	233.88	91.02	233.88	91.02
21	233.37	37.41	234.10	112.95	234.38	151.75	234.42	160.38	233.86	89.65	233.88	90.13
22	233.66	71.41	234.02	104.93	234.44	159.63	234.26	147.05	233.86	87.89	233.88	90.13
23	234.66	214.62	234.00	103.44	234.42	157.84	234.24	132.69	233.85	87.21	233.88	90.13
24	234.43	156.18	233.96	98.58	234.38	151.75	234.18	127.82	233.85	86.34	233.87	89.45
25	233.98	100.03	234.58	180.72	234.40	151.01	234.12	116.59	233.84	85.67	233.87	88.56
26	233.76	79.51	234.50	167.69	234.46	174.45	234.08	111.44	233.84	84.81	233.87	88.56
27	233.60	67.52	234.56	176.02	234.52	169.52	234.06	108.91	233.84	84.81	233.87	88.56
28	233.54	58.33	234.36	147.53	234.42	157.84	234.06	106.88	233.84	84.81	233.86	87.89
29	233.46	52.36	234.60	207.96	234.34	145.79	234.04	105.41	233.82	83.48	233.86	87.89
30	233.82	83.48	235.00	429.69	234.26	134.31	234.04	105.41	233.82	81.78	233.86	87.89
31			235.00	429.69	234.42	157.84			233.80	80.48		
214.62		429.69		465.01		674.95		129.64		128.37		
37.41		39.33		134.31		103.94		80.48		80.48		

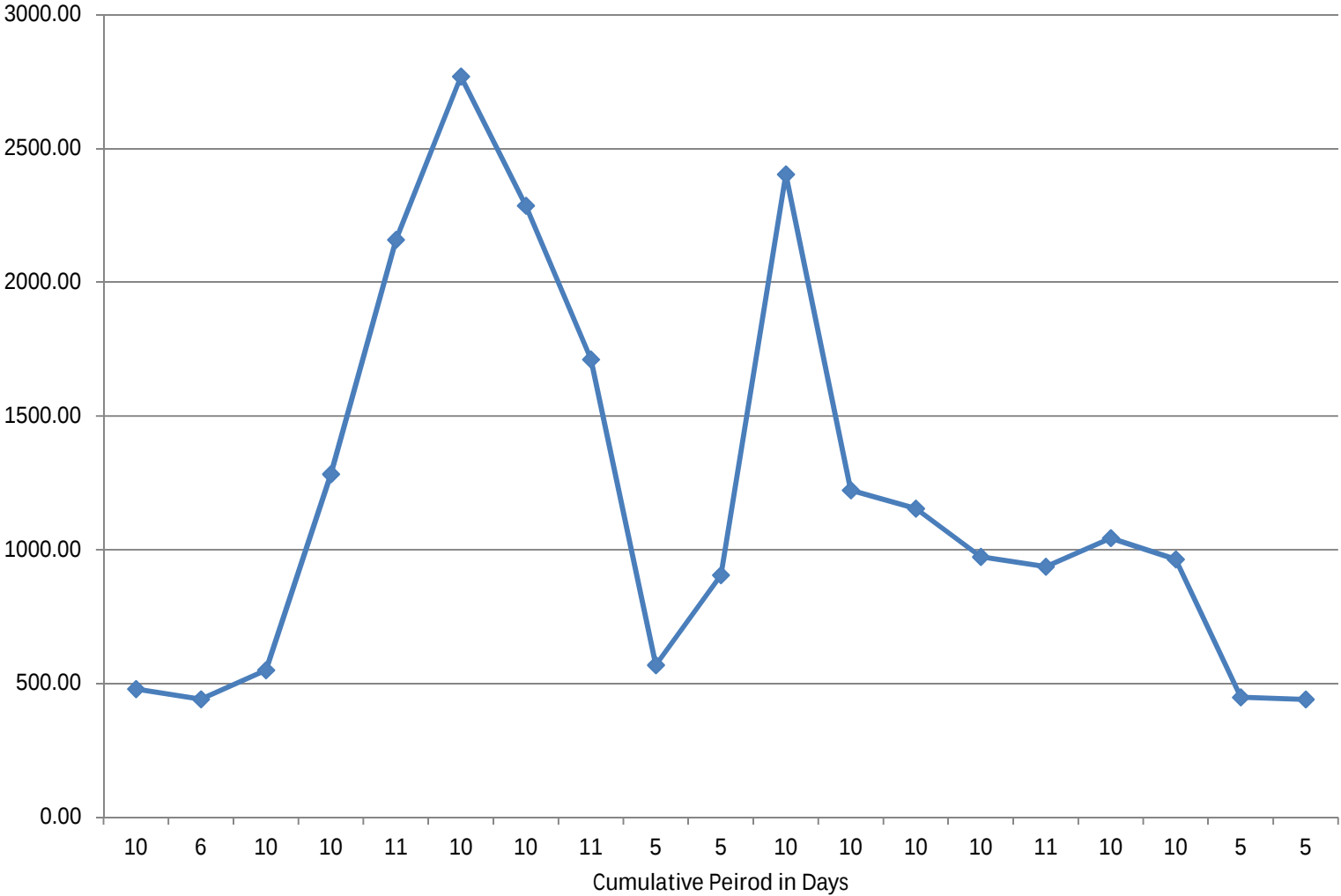
Max 674.95
Min 37.41

Discharge variation due to manual velocity measurement,

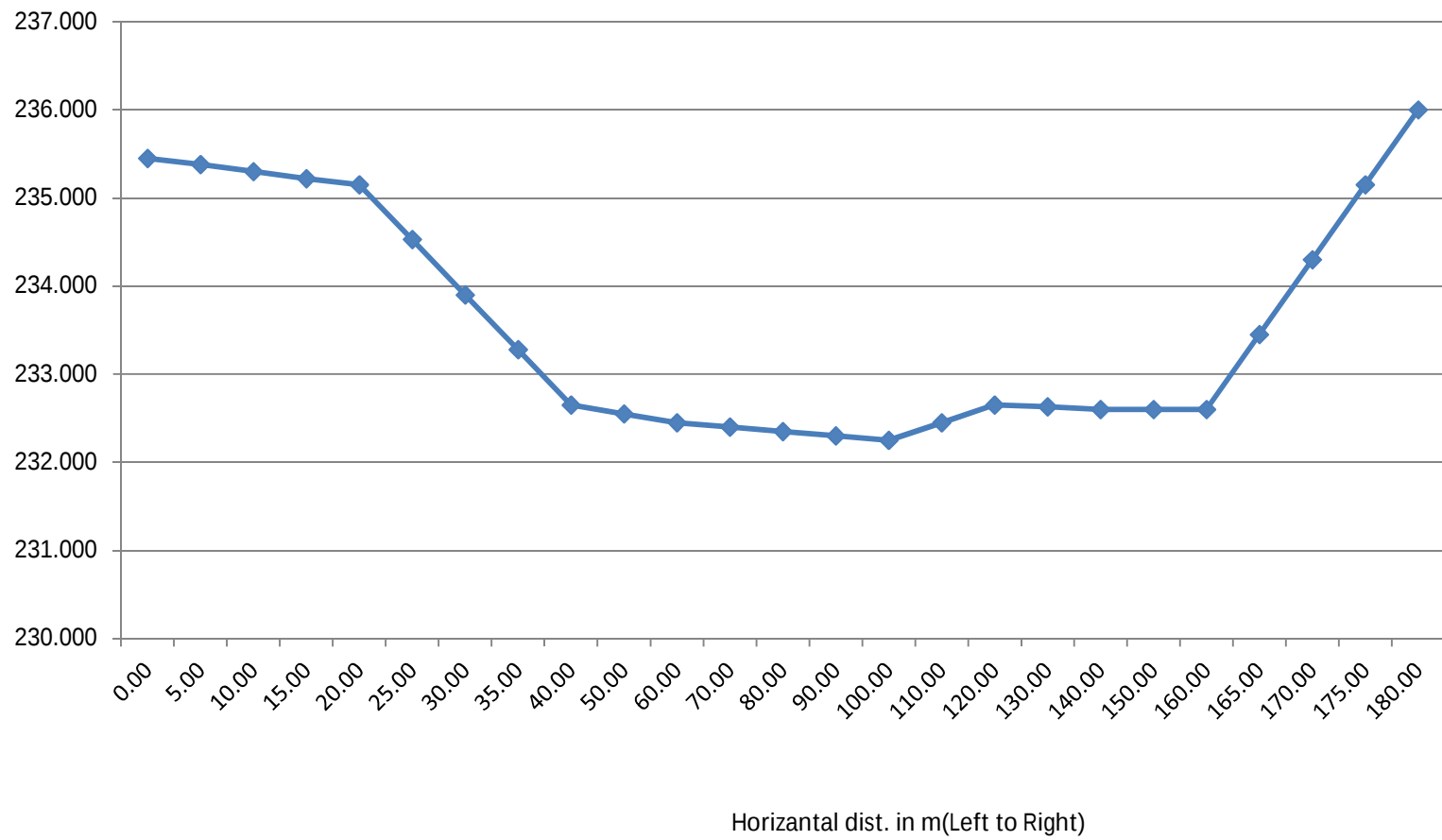
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

North Koel
Tahle
Garhwa

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

183.8

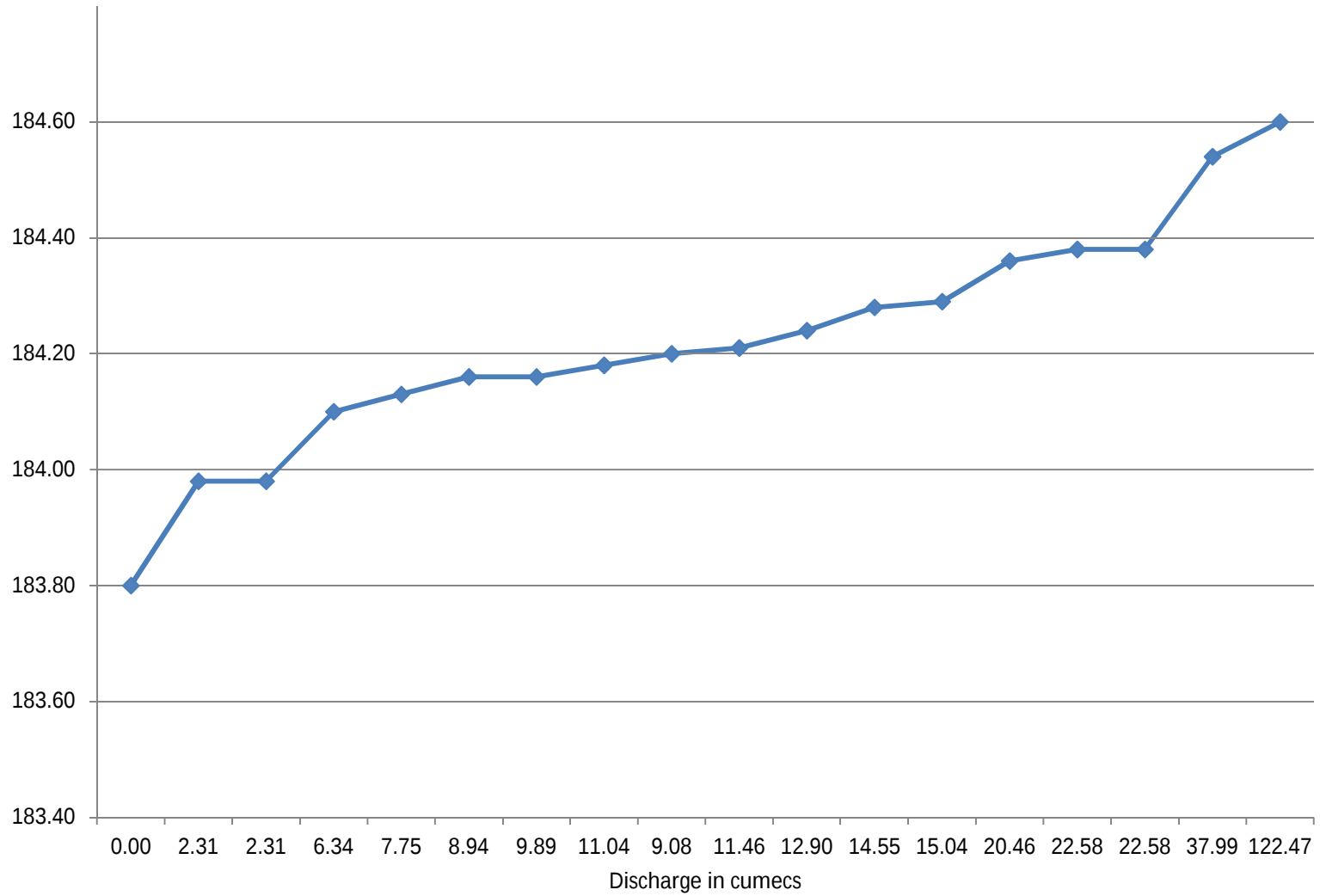
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			183.98	2.31	185.30	122.47	184.24	12.90	184.36	20.46	184.16	8.94
2			183.96	1.70	185.16	97.20	184.26	15.86	184.54	37.99	184.15	8.54
3			183.94	1.20	184.98	78.62	184.22	11.69	184.40	25.19	184.14	8.01
4			183.98	2.31	184.80	61.05	184.26	15.86	184.42	26.75	184.34	18.18
5			183.98	2.31	184.60	42.63	184.20	11.04	184.50	34.82	184.82	62.65
6			184.18	9.25	184.36	20.46	184.22	11.69	184.40	25.19	184.38	19.98
7			184.30	16.15	184.22	11.87	184.80	61.05	184.36	20.46	184.35	17.82
8			184.36	20.74	184.18	10.05	184.42	25.80	184.30	16.63	184.33	16.71
9			184.36	20.74	184.16	9.08	184.32	18.04	184.28	15.04	184.31	15.62
10			184.54	37.99	184.10	6.34	184.38	22.58	184.26	15.86	184.30	16.63
11			184.20	11.04	184.10	6.34	184.38	22.58	184.28	15.04	184.29	14.55
12			184.86	66.51	184.12	6.03	184.18	10.05	184.34	19.24	184.28	15.04
13			184.84	64.25	184.18	9.89	184.16	9.08	184.34	19.24	184.28	15.04
14			184.37	21.79	184.12	7.23	184.28	15.04	184.33	18.25	184.27	14.61
15			184.36	21.01	184.18	9.89	184.10	6.34	184.29	15.48	184.26	14.17
16	183.90	0.56	184.92	72.06	184.20	11.04	184.32	18.04	184.23	12.48	184.25	13.53
17	183.92	0.87	184.96	76.12	184.10	6.34	184.52	36.20	184.22	11.87	184.24	12.90
18	183.92	0.87	184.90	70.43	185.16	56.85	184.86	66.51	184.22	11.87	184.22	12.06
19	183.94	1.20	184.56	39.81	184.56	39.81	184.58	41.22	184.21	11.46	184.21	11.46
20	183.94	1.20	184.50	34.82	184.28	15.04	184.46	30.67	184.21	11.46	184.20	11.04
21	183.94	1.20	184.54	37.99	184.16	9.08	184.38	22.58	184.21	11.46	184.18	9.89
22	183.96	1.70	184.40	24.89	184.30	16.15	184.36	20.46	184.20	11.04	184.18	9.89
23	183.98	2.31	184.38	22.29	184.28	15.04	184.34	19.24	184.20	11.04	184.17	9.49
24	184.00	2.97	184.36	21.01	184.18	10.05	184.34	19.24	184.20	11.04	184.17	9.49
25	183.98	2.31	185.08	88.73	184.26	13.96	184.32	18.04	184.19	10.46	184.15	8.68
26	183.98	2.31	184.80	35.41	184.48	32.35	184.31	17.32	184.19	10.46	184.15	8.68
27	183.96	1.70	185.10	90.61	184.52	36.20	184.31	17.32	184.18	9.89	184.15	8.68
28	184.00	2.97	184.94	75.14	184.46	30.32	184.30	16.63	184.18	9.89	184.13	7.75
29	184.00	2.97	185.30	122.47	184.32	17.28	184.30	16.63	184.18	9.89	184.13	7.75
30	184.00	2.97	185.50	159.92	184.28	15.49	184.30	16.63	184.17	9.33	184.13	7.75
31			185.42	145.17	184.20	11.04			184.17	9.33		

Max. 2.97 159.92 122.47 66.51 37.99 62.65
Min. 0.56 1.20 6.03 6.34 9.33 7.75

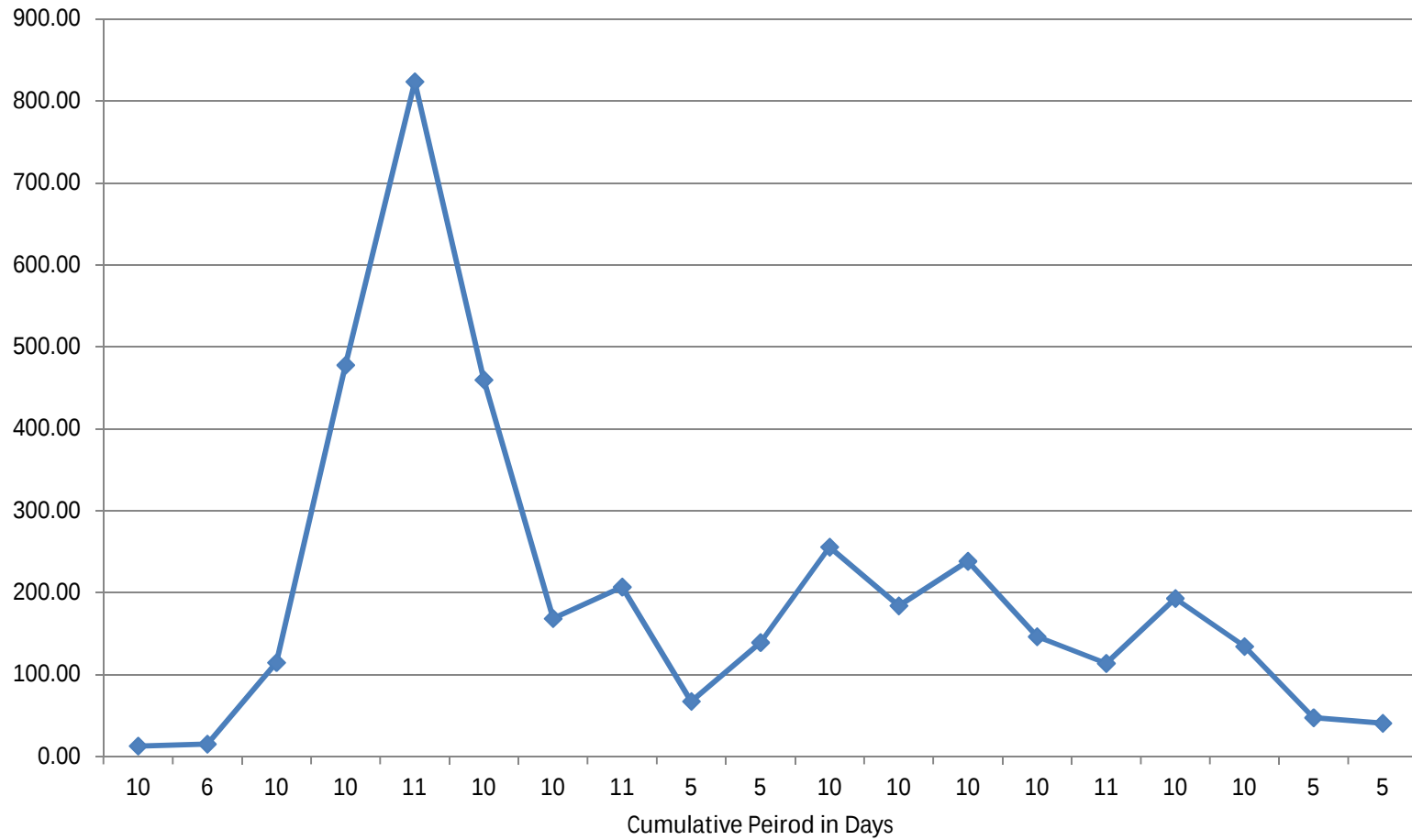
Max 159.92
Min 0.56

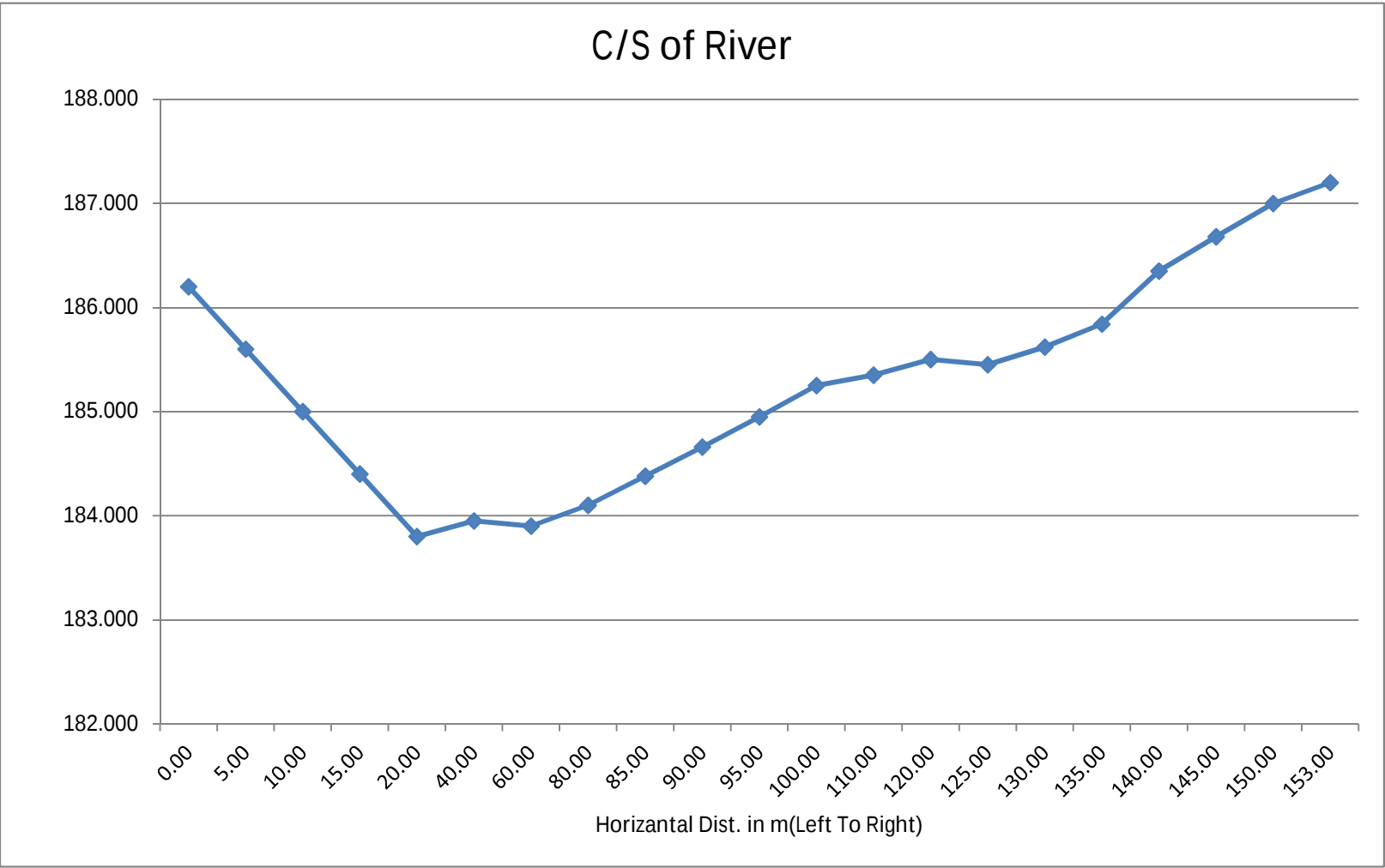
Discharge variation due to manual velocity measurement,

Stage Graph



Storm Hydrograph





Basin North Koel Water Level Data Zero of the Gauge 480.2
River Domni Nala Koel 2012-13
Site Kharondhi Catchment area - Sqkm Unit of Water Level M
Unit of Discharge Cum
TOPO SHEET NO. -

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			480.54	1.87	481.14	15.54	481.22	18.86	480.90	8.49	481.00	11.17
2			480.76	4.69	481.20	18.43	481.06	13.62	480.90	8.49	480.88	7.79
3			480.76	4.69	481.20	18.43	480.90	8.35	480.92	8.87	480.80	6.57
4			480.76	4.69	481.02	11.51	480.80	6.40	480.92	8.87	480.78	6.28
5			480.62	2.91	481.30	23.64	481.06	13.26	480.96	9.72	480.70	5.09
6			480.92	8.80	481.40	28.22	481.04	12.89	480.94	9.33	480.66	3.57
7			480.96	9.72	481.12	15.15	481.16	16.95	480.98	10.11	480.60	2.70
8			480.90	8.35	480.90	8.35	481.40	28.27	481.00	11.17	480.60	2.70
9			481.10	14.38	480.94	9.40	481.80	51.00	481.00	11.17	480.58	2.49
10			481.08	14.00	480.80	6.40	481.70	11.53	481.02	12.19	480.56	2.28
11			480.94	9.40	481.00	11.17	481.50	33.55	481.02	12.19	480.56	2.17
12			481.22	18.86	480.96	9.72	481.32	24.18	481.00	11.17	480.54	1.97
13			480.90	8.35	481.20	18.43	481.16	16.95	480.96	9.72	480.52	1.64
14			481.08	14.00	481.24	19.29	481.06	13.26	480.94	9.40	480.50	1.46
15			481.40	28.27	481.22	18.86	481.00	11.17	480.94	9.40	480.48	1.31
16	480.36	0.46	481.32	24.43	481.12	15.15	480.96	9.72	480.92	8.87	480.46	1.17
17	480.36	0.46	481.30	23.69	481.16	16.95	481.10	14.38	480.92	8.87	480.46	1.17
18	480.38	0.56	481.22	18.86	481.10	14.38	481.18	18.00	480.94	9.40	480.46	1.17
19	480.38	0.56	480.76	5.73	481.10	14.38	481.16	16.95	480.96	9.72	480.46	1.17
20	480.40	0.64	480.66	3.72	481.08	14.00	481.10	14.38	480.98	10.11	480.46	1.17
21	480.40	0.64	480.58	2.43	481.08	14.00	481.06	13.26	480.96	9.79	480.44	0.94
22	480.40	0.64	480.52	1.59	481.08	14.00	481.02	11.51	481.04	14.81	480.44	0.94
23	480.40	0.64	480.54	1.87	481.06	13.26	481.00	11.17	481.02	12.19	480.44	0.94
24	480.42	0.75	480.54	1.87	481.01	11.34	480.96	9.72	481.00	11.17	480.44	0.94
25	480.40	0.64	481.14	15.54	481.04	12.89	480.94	9.40	480.96	9.72	480.44	0.94
26	480.40	0.64	480.86	7.37	481.04	12.89	480.92	8.87	480.94	9.40	480.40	0.62
27	480.38	0.56	480.92	8.66	481.00	11.17	480.90	8.49	480.94	9.40	480.40	0.62
28	480.38	0.56	481.24	19.29	480.94	9.40	480.90	8.56	480.96	9.72	480.36	0.50
29	480.40	0.64	481.40	28.27	480.90	8.35	480.88	6.44	480.96	9.72	480.36	0.50
30	480.40	0.64	481.50	32.97	480.80	6.40	480.88	6.44	480.98	10.11	480.36	0.50
31			481.10	14.38	480.80	6.40			481.00	11.17		

0.75
0.46

32.97
1.59

28.22
6.40

51.00
6.40

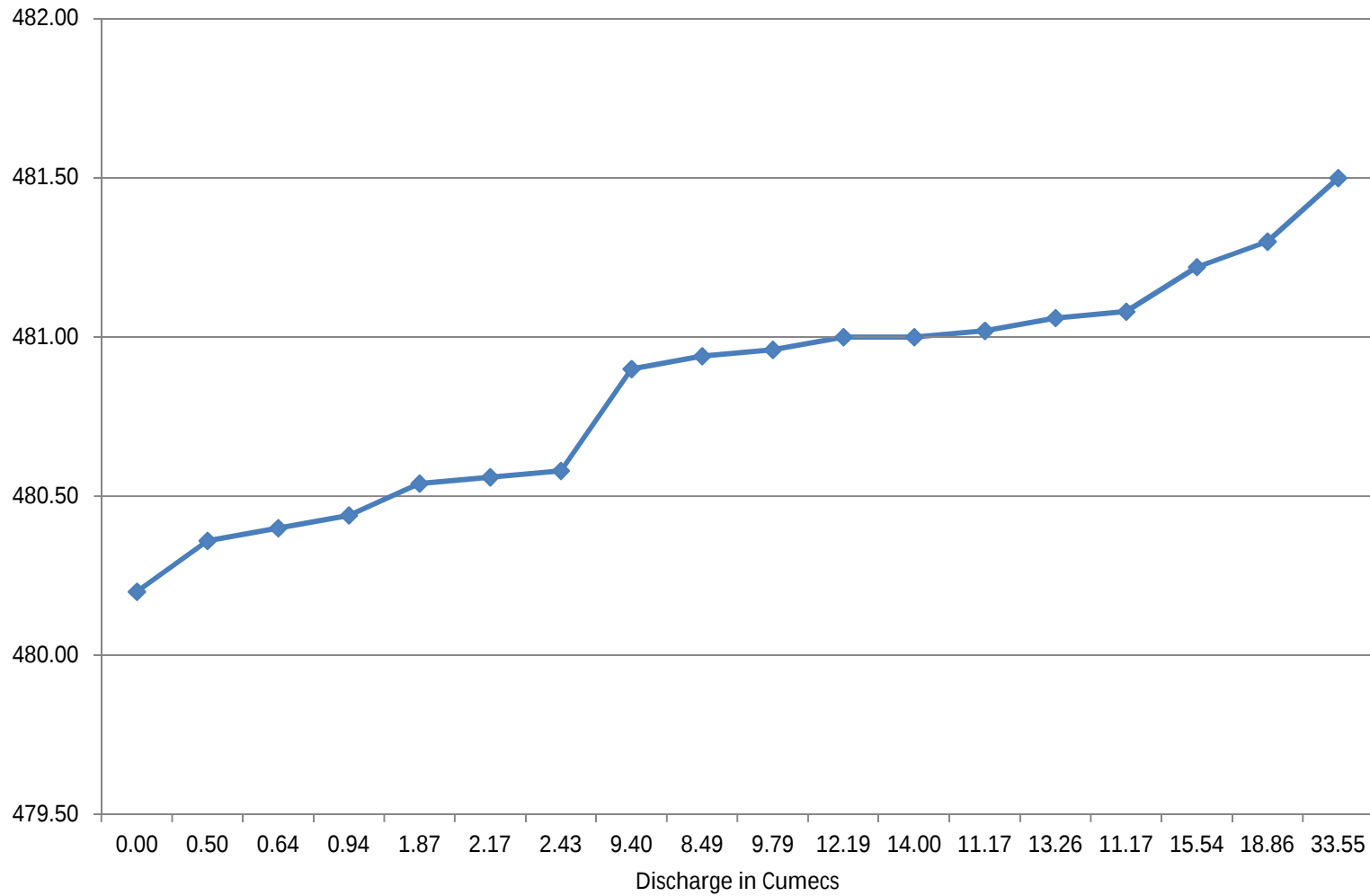
14.81
8.49

11.17
0.50

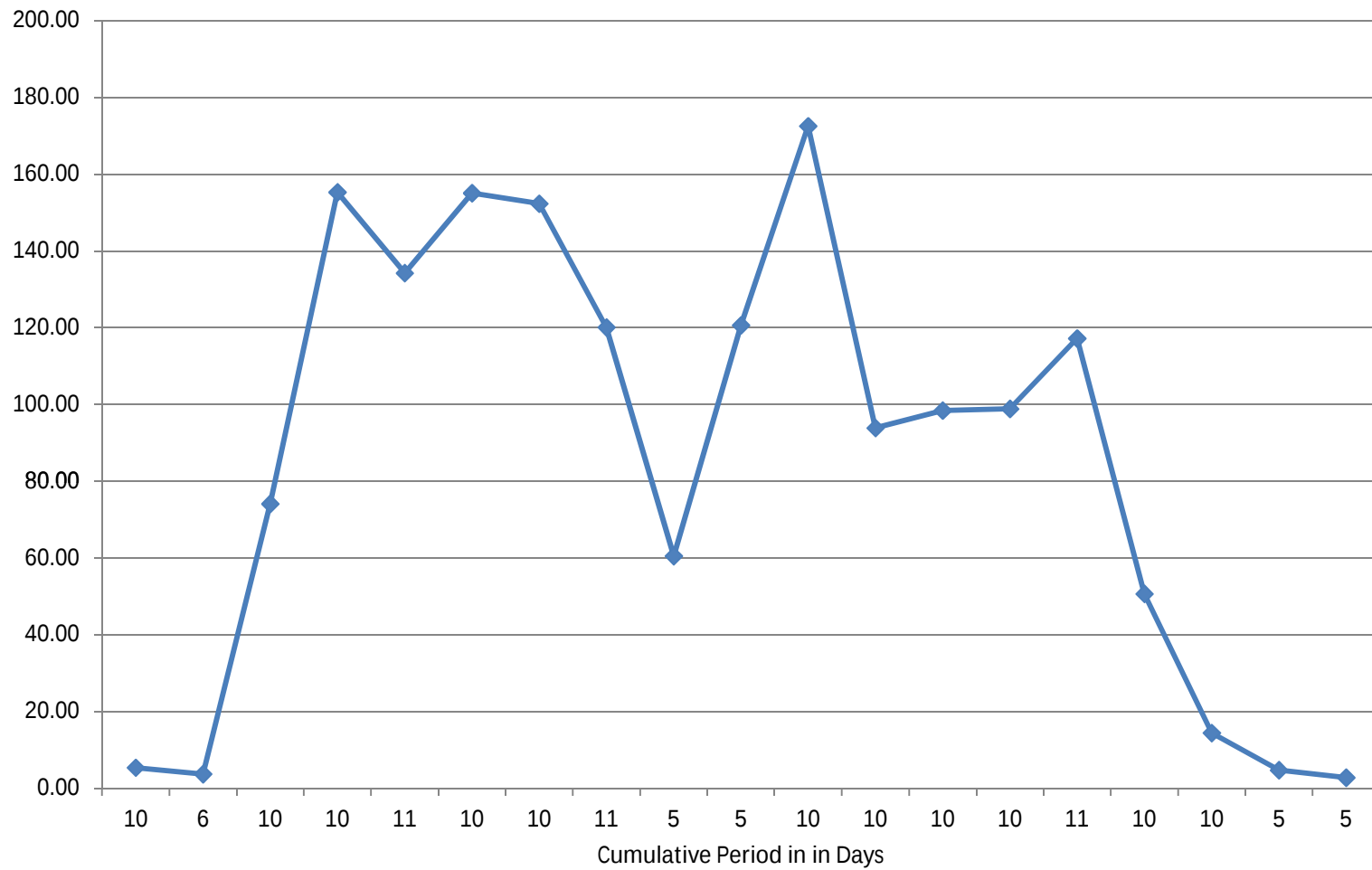
Max 51.00
Min 0.46

Discharge variation due to manual velocity measurement,

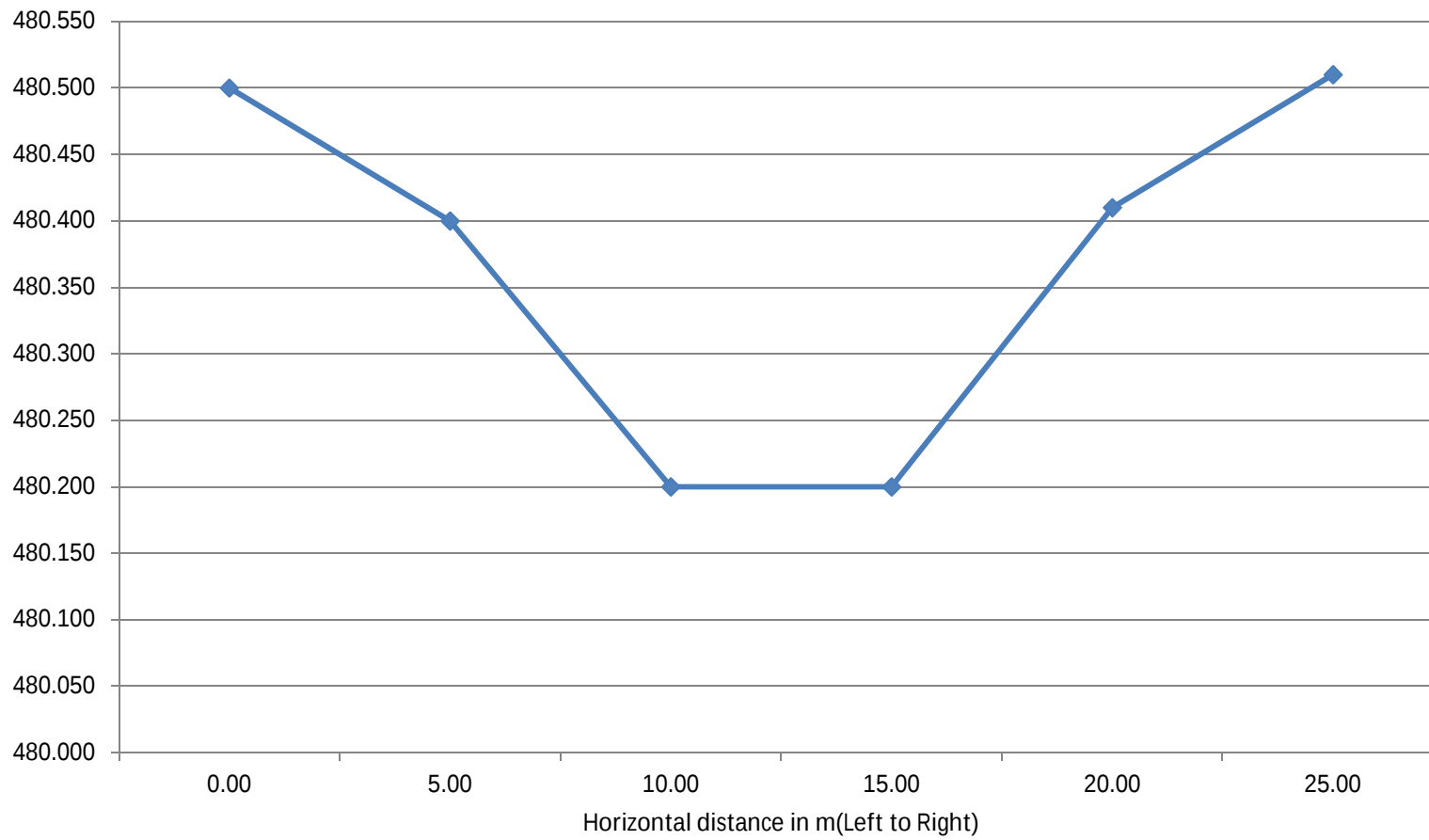
Stage Graph



Storm Hydrograph



C/S of River



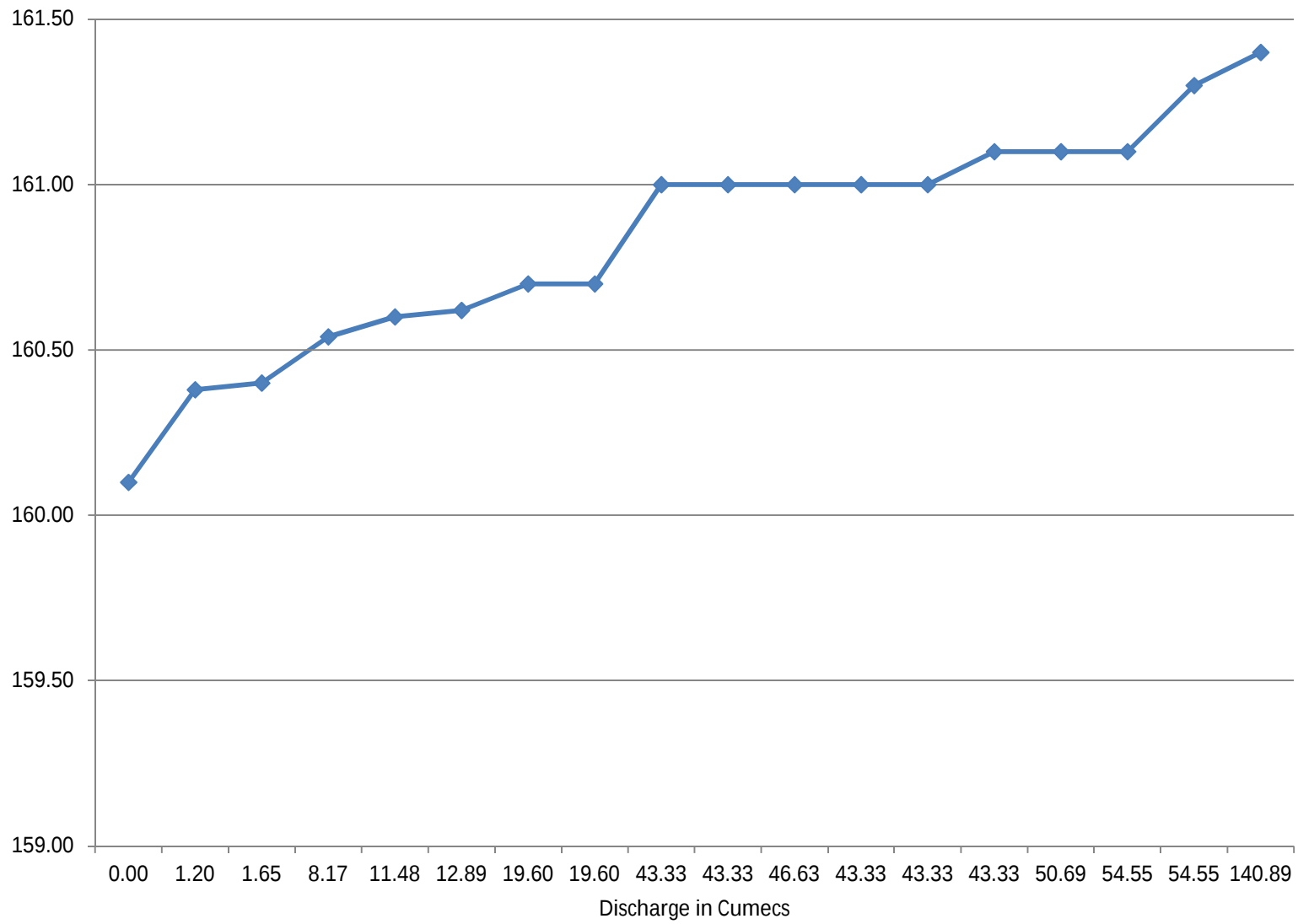
Basin North Koel Water Level Data Zero of the Gauge 160.1
River Danyi Banki 2012-13
Site Danye Banki Utari Road Catchment area - Sqkm Unit of Water Level M
Unit of Discharge Cum
TOPO SHEET NO. -

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			161.00	43.33	161.00	43.33	161.10	54.55	161.00	43.33	160.60	11.48
2			161.00	43.33	161.00	43.33	161.30	66.12	161.00	43.33	160.66	16.09
3			160.86	30.87	160.85	30.58	161.20	56.79	160.86	30.87	160.70	19.60
4			160.70	19.60	161.10	55.10	161.00	43.33	160.86	30.87	160.70	19.60
5			160.70	19.60	161.30	82.48	161.00	43.33	160.86	30.87	160.70	19.60
6			160.70	19.60	161.00	43.33	161.00	43.33	160.80	26.69	160.66	16.09
7			160.80	26.69	160.85	30.58	161.30	82.48	160.80	26.69	160.62	12.89
8			160.80	26.69	161.00	43.33	161.20	66.89	160.80	26.69	160.60	11.48
9			160.80	26.69	160.85	30.58	161.00	43.33	160.80	26.69	160.60	11.48
10			160.80	26.69	160.70	19.60	161.00	43.33	160.70	19.60	160.54	8.17
11			161.00	43.33	161.10	50.69	161.00	43.33	160.70	19.60	160.54	8.17
12			160.86	31.23	161.30	66.12	161.10	54.55	160.70	19.60	160.50	5.92
13			160.80	26.69	161.00	46.63	161.30	82.48	160.70	19.60	160.50	5.92
14			160.76	23.86	161.00	46.63	161.30	82.48	160.70	19.60	160.50	5.92
15			160.72	20.83	161.10	54.55	161.40	101.09	160.70	19.60	160.50	5.92
16	160.50	5.92	160.80	26.69	160.85	30.58	161.30	82.48	160.70	19.60	160.50	5.92
17	160.50	5.92	160.72	22.10	161.10	50.69	161.40	101.09	160.66	16.51	160.44	3.07
18	160.50	5.92	160.70	20.79	161.30	66.12	161.40	101.09	160.66	16.51	160.44	3.07
19	160.50	5.92	160.76	24.42	161.10	50.69	161.20	66.89	160.66	16.51	160.44	3.07
20	160.50	5.92	160.80	26.69	161.00	46.63	161.10	54.55	160.62	12.89	160.40	1.65
21	160.72	20.83	161.40	140.89	161.00	46.63	161.10	54.55	160.62	12.89	160.40	1.65
22	160.66	16.51	161.30	82.48	161.00	46.63	161.00	43.33	160.60	11.48	160.40	1.65
23	160.85	30.58	161.30	82.48	161.10	50.69	161.00	43.33	160.60	11.48	160.40	1.65
24	160.72	20.83	161.10	55.10	161.30	66.12	161.00	43.33	160.60	11.48	160.40	1.65
25	160.70	19.60	161.10	55.10	161.10	50.69	161.10	54.55	160.60	11.48	160.40	1.65
26	160.62	12.89	161.00	43.33	161.00	43.33	161.10	54.55	160.60	11.48	160.40	1.65
27	160.54	8.17	161.00	43.33	161.00	43.33	161.00	43.33	160.54	8.17	160.40	1.65
28	160.54	8.17	161.40	101.09	161.00	43.33	161.00	43.33	160.54	8.17	160.38	1.20
29	160.54	8.17	161.30	82.48	160.85	30.58	161.00	43.33	160.54	8.17	160.38	1.20
30	160.54	8.17	161.10	54.55	160.85	30.58	161.00	43.33	160.54	8.17	160.38	1.20
31			161.40	101.09	160.85	30.58			160.54	8.17		
Max		30.58		140.89		82.48		101.09		43.33		19.60
Min		5.92		19.60		19.60		43.33		8.17		1.20

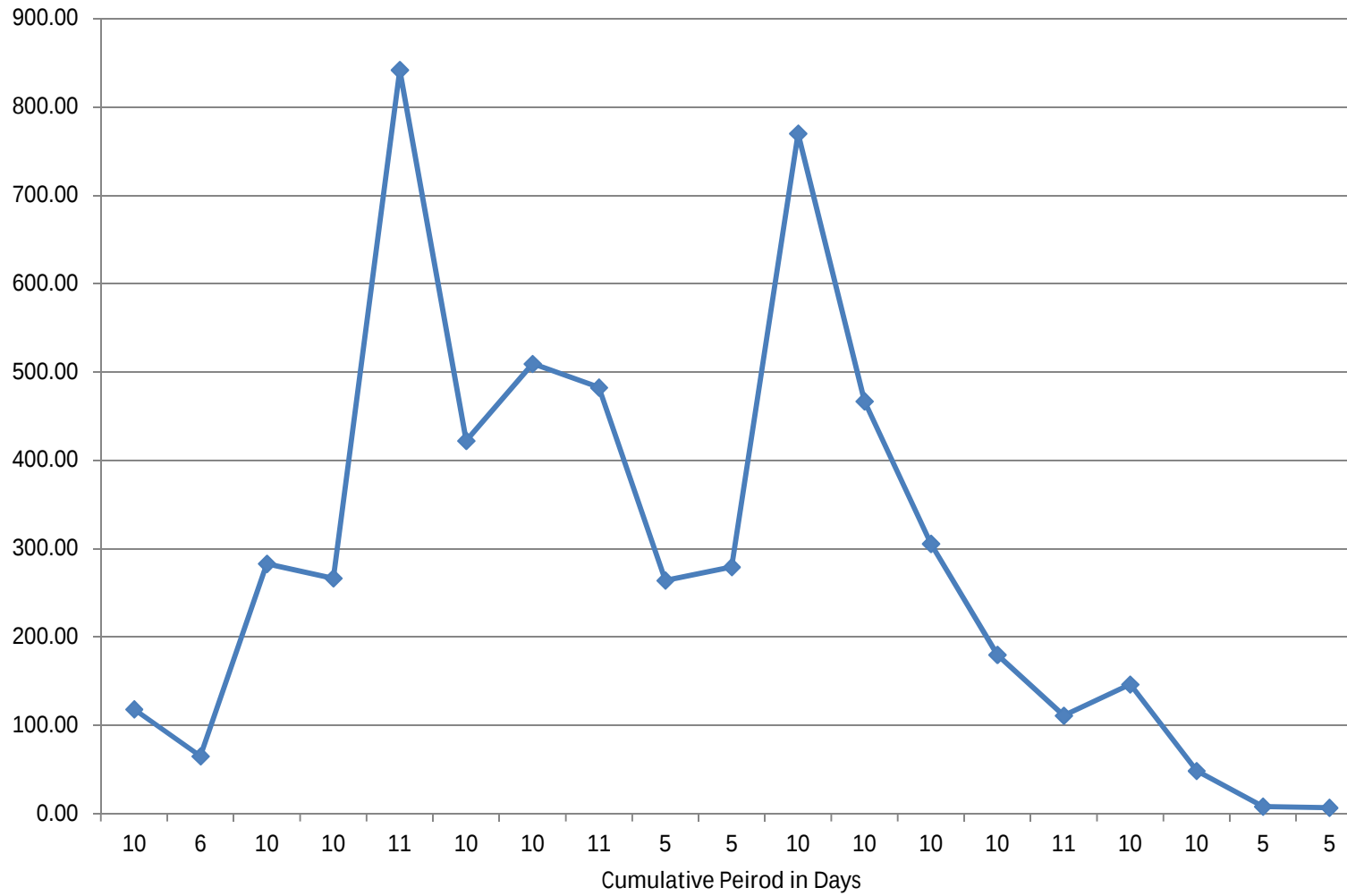
Max 140.89

Discharge variation due to manual velocity

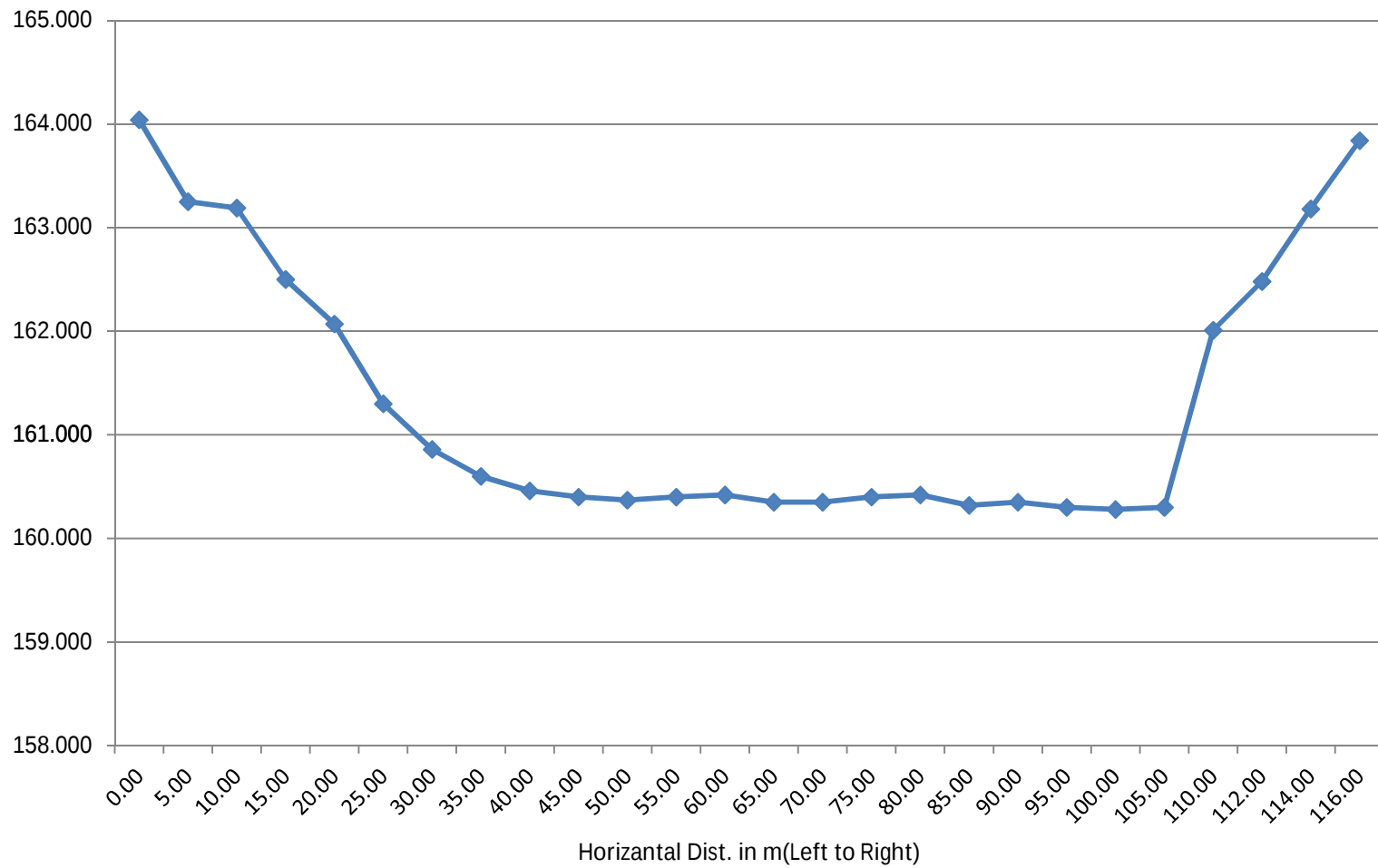
Stage Graph



Storm Hydrograph



C/S of River



FALGU - BASIN

Basin
River
Site

Falgu
Lilajan
Hunter Ganj

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

97.1

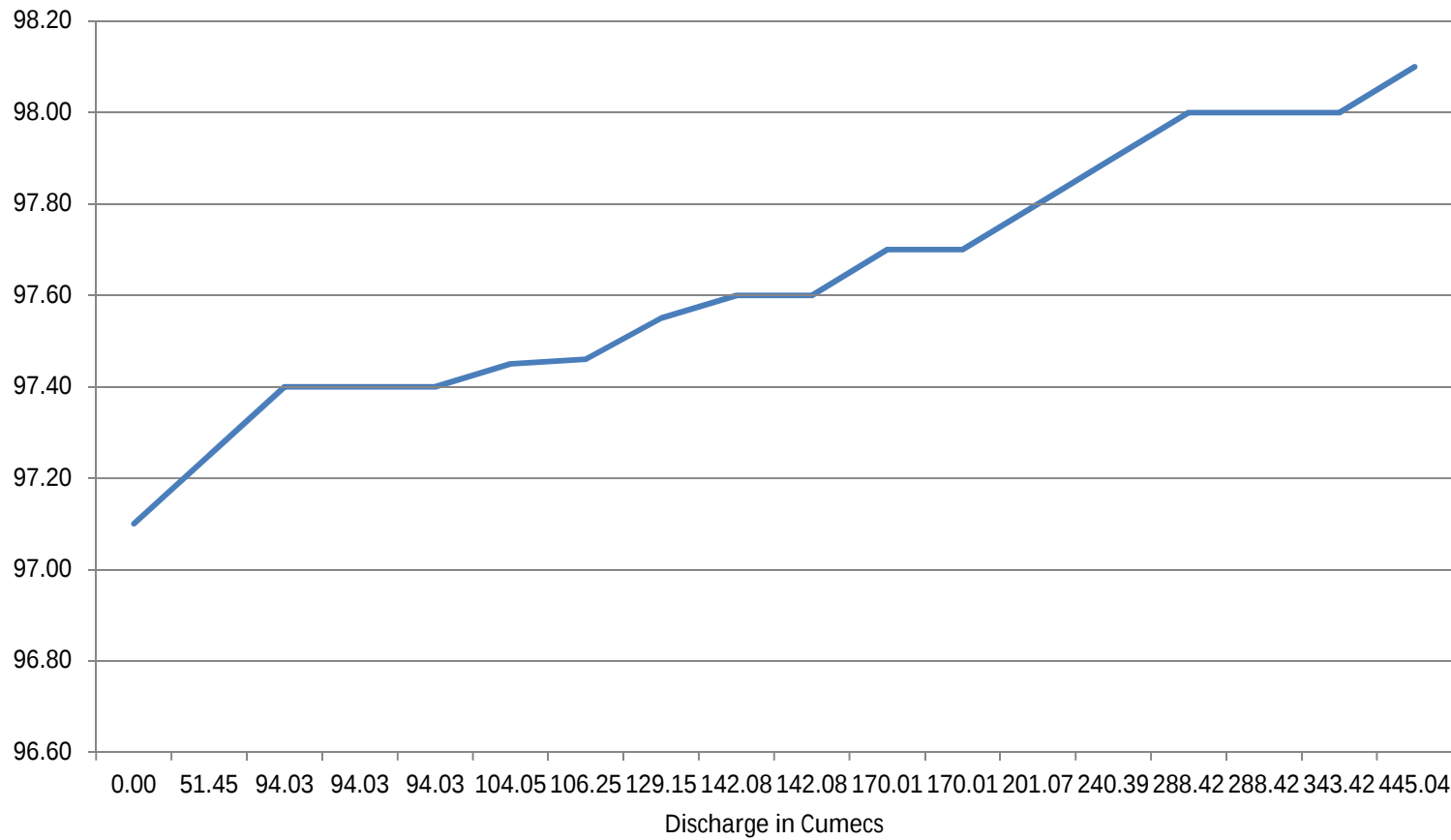
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			97.40	94.03	98.30	445.04	97.60	142.08	97.60	142.08	97.25	51.45
2			97.38	86.76	97.90	240.39	97.60	142.08	97.80	201.07	97.25	51.45
3			97.42	95.96	97.90	240.39	97.60	142.08	97.80	201.07	97.25	51.45
4			97.42	95.96	97.80	201.07	97.70	170.01	97.90	240.39	97.35	77.30
5			97.46	106.25	98.00	288.42	97.70	170.01	97.90	240.39	97.45	104.05
6			97.60	142.08	98.00	288.42	97.90	240.39	97.90	240.39	97.45	104.05
7			97.60	142.08	97.90	240.39	97.80	201.07	97.80	201.07	97.45	104.05
8			97.70	170.01	97.80	201.07	97.90	240.39	97.80	201.07	97.35	77.30
9			97.60	142.08	97.90	240.39	98.00	288.42	97.80	201.07	97.30	63.91
10			97.60	142.08	98.00	288.42	98.00	288.42	97.70	170.01	97.30	63.91
11			97.70	170.01	98.00	288.42	98.00	288.42	97.70	170.01	97.40	94.03
12			97.90	240.39	98.00	288.42	97.90	240.39	97.70	170.01	97.40	94.03
13			97.90	240.39	98.00	288.42	97.90	240.39	97.70	170.01	97.50	115.95
14			98.20	393.51	97.90	240.39	98.10	337.50	97.70	170.01	97.50	115.95
15			98.40	501.36	97.85	221.12	98.20	393.51	97.80	201.07	97.50	115.95
16	97.40	94.03	98.00	288.42	97.85	221.12	98.30	445.04	97.80	201.07	97.50	115.95
17	97.40	94.03	97.80	201.07	97.80	201.07	98.10	343.42	97.70	170.01	97.50	115.95
18	97.40	94.03	97.70	170.01	97.80	201.07	98.10	343.42	97.70	170.01	97.50	115.95
19	97.40	94.03	97.70	170.01	97.85	221.12	98.00	288.42	97.60	148.88	97.45	104.05
20	97.46	106.25	97.90	240.39	98.05	313.91	98.00	288.42	97.55	129.15	97.45	104.05
21	97.46	106.25	97.90	240.39	97.80	201.07	98.10	343.42	97.55	129.15	97.45	104.05
22	97.48	110.85	97.90	240.39	97.75	185.78	98.00	288.42	97.50	115.95	97.45	104.05
23	97.48	110.85	97.80	201.07	97.70	170.01	97.90	240.39	97.50	115.95	97.45	104.05
24	97.50	115.95	97.80	201.07	97.80	201.07	97.90	240.39	97.45	104.05	97.45	104.05
25	97.46	106.25	98.30	445.04	97.70	170.01	97.80	201.07	97.45	104.05	97.45	104.05
26	97.46	106.25	98.40	501.36	97.70	170.01	97.80	201.07	97.40	94.03	97.45	104.05
27	97.44	101.36	98.00	288.42	97.70	170.01	97.70	170.01	97.40	94.03	97.40	94.03
28	97.40	94.03	98.00	288.42	97.65	156.67	97.70	170.01	97.35	77.30	97.40	94.03
29	97.40	94.03	97.90	240.39	97.65	156.67	97.60	142.08	97.30	63.91	97.40	94.03
30	97.40	94.03	98.10	343.42	97.60	142.08	97.60	142.08	97.30	63.91	97.40	94.03
31			98.20	393.51	97.60	142.08			97.30	63.91		

Max. 115.95 501.36 445.04 445.04 240.39 115.95
Min. 94.03 86.76 142.08 142.08 63.91 51.45

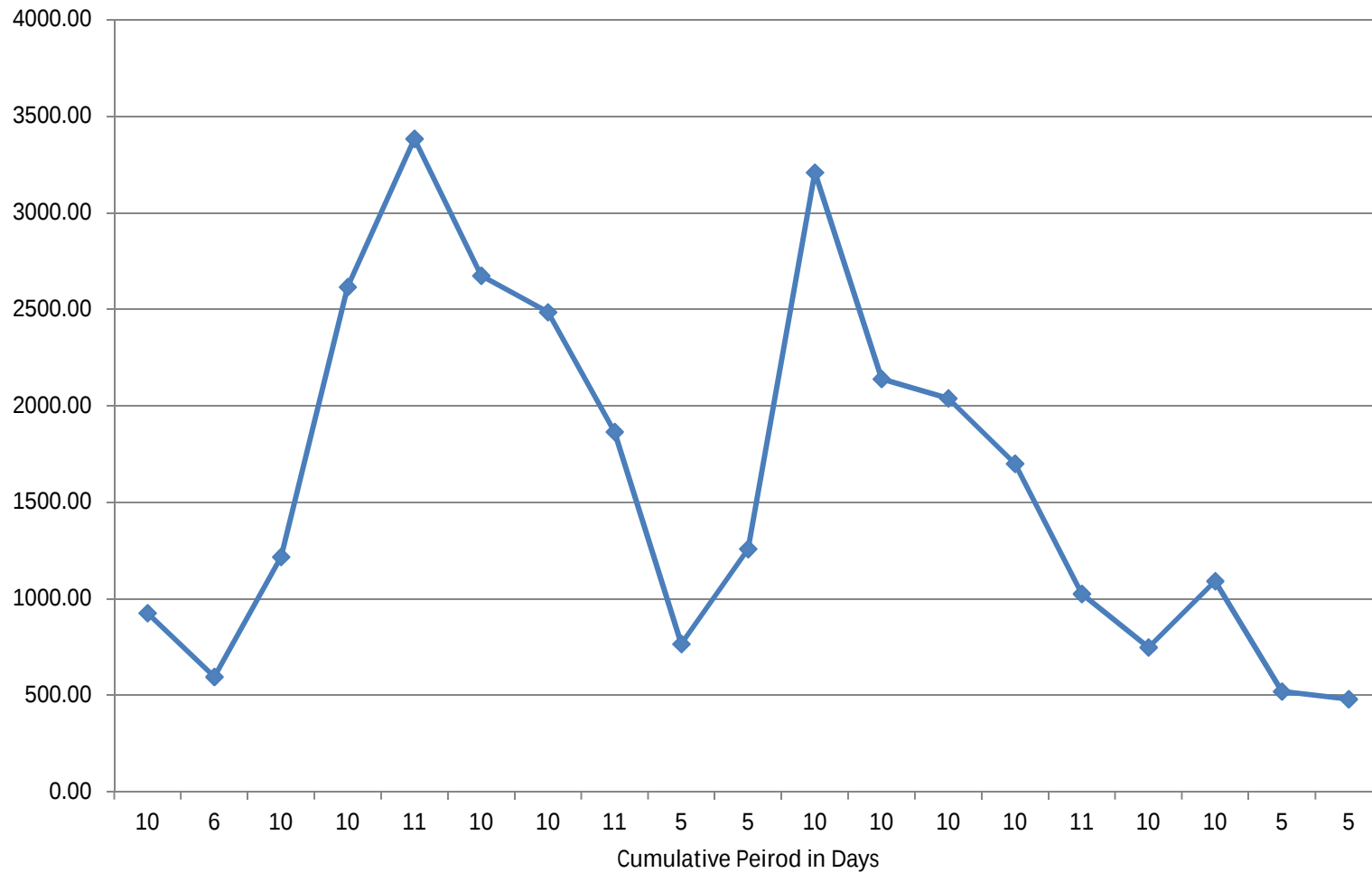
Max 501.36
Min 51.45

Discharge variation due to manual velocity measurement,

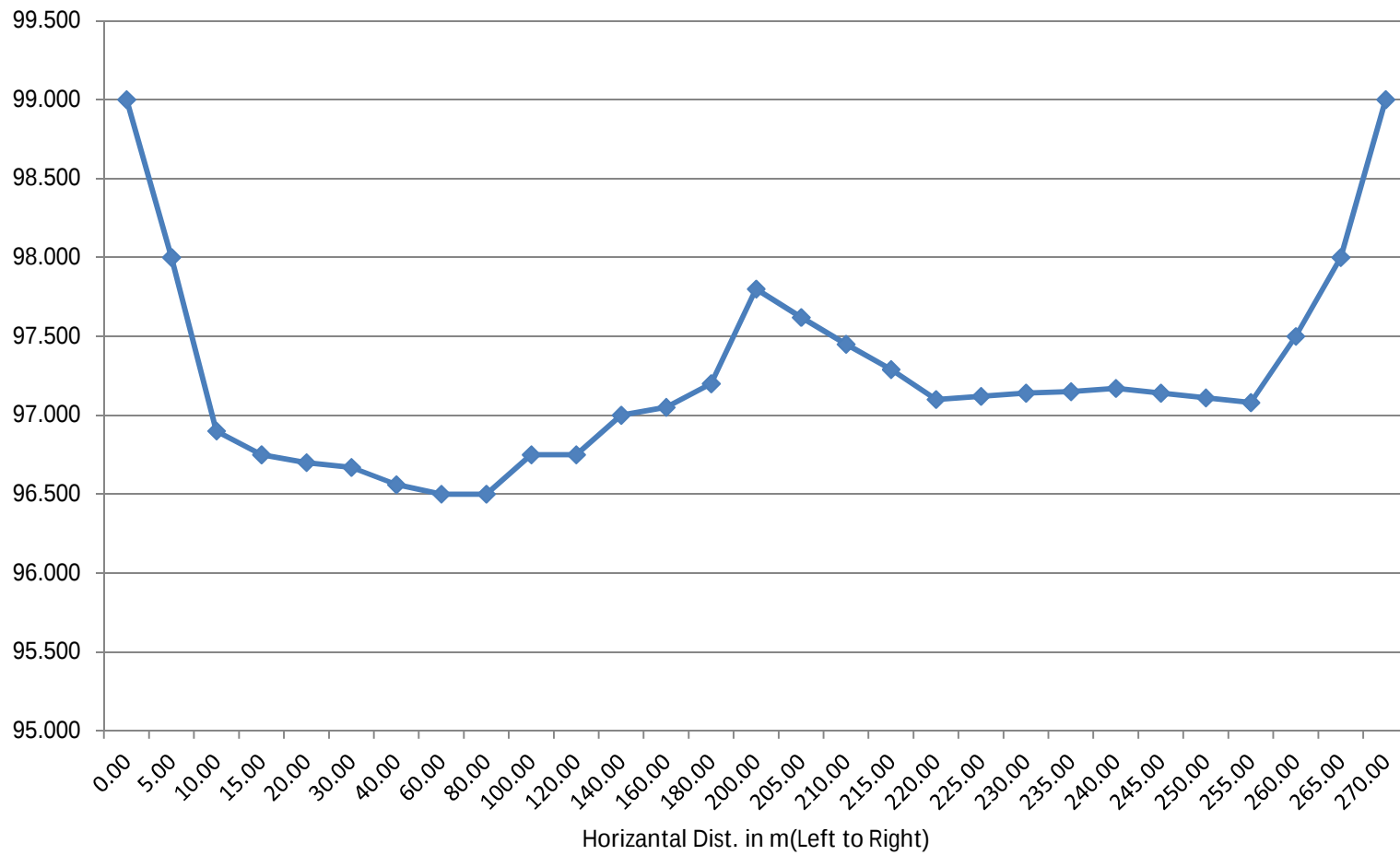
Stage Graph



Storm Hydrograph



C/S of River



Basin
River
Site

Falgu
Mahane
Bhalua Chatti

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

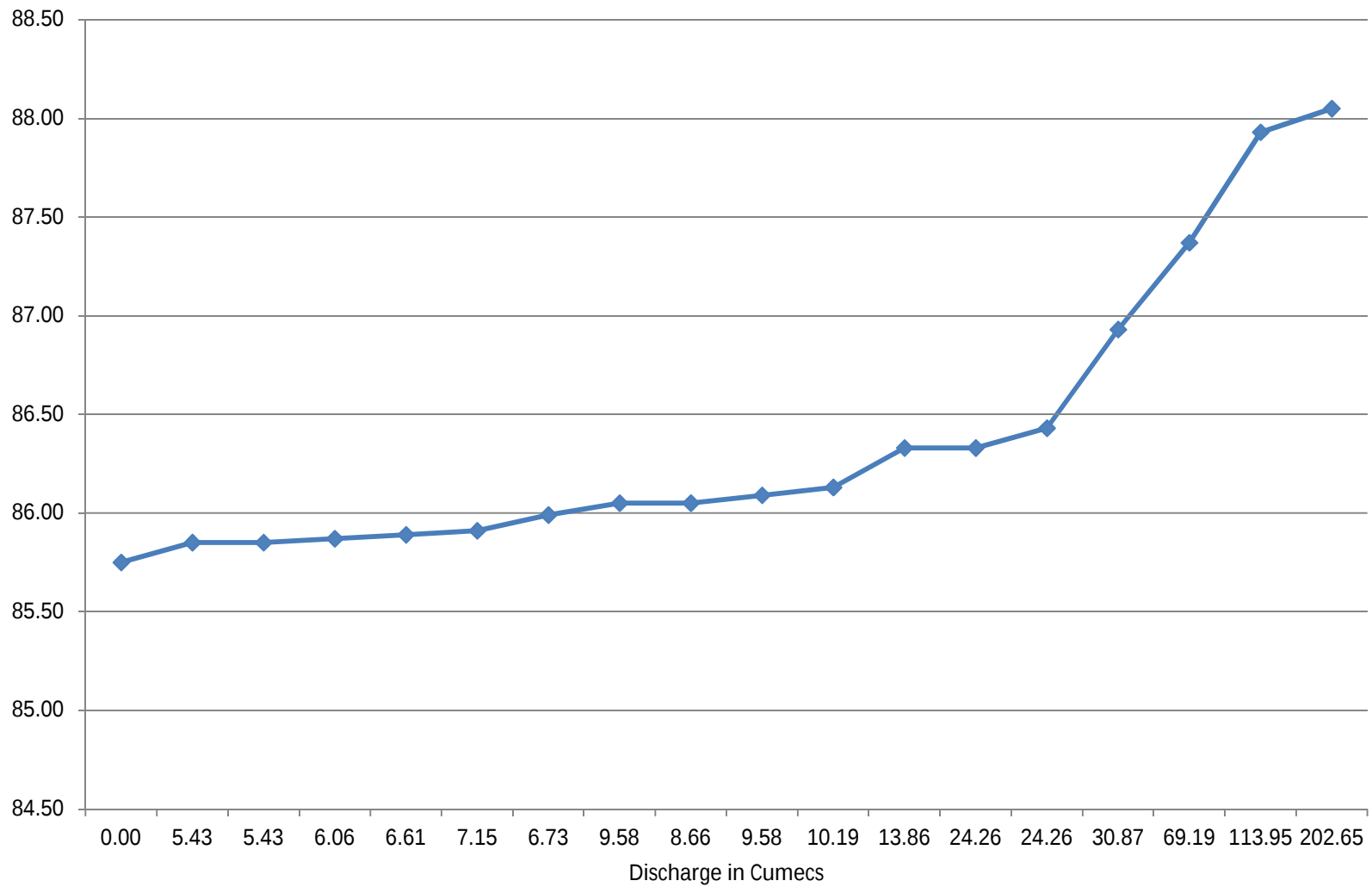
Zero of the Gauge
Unit of Water Level
Unit of Discharge

85.75
M
Cum

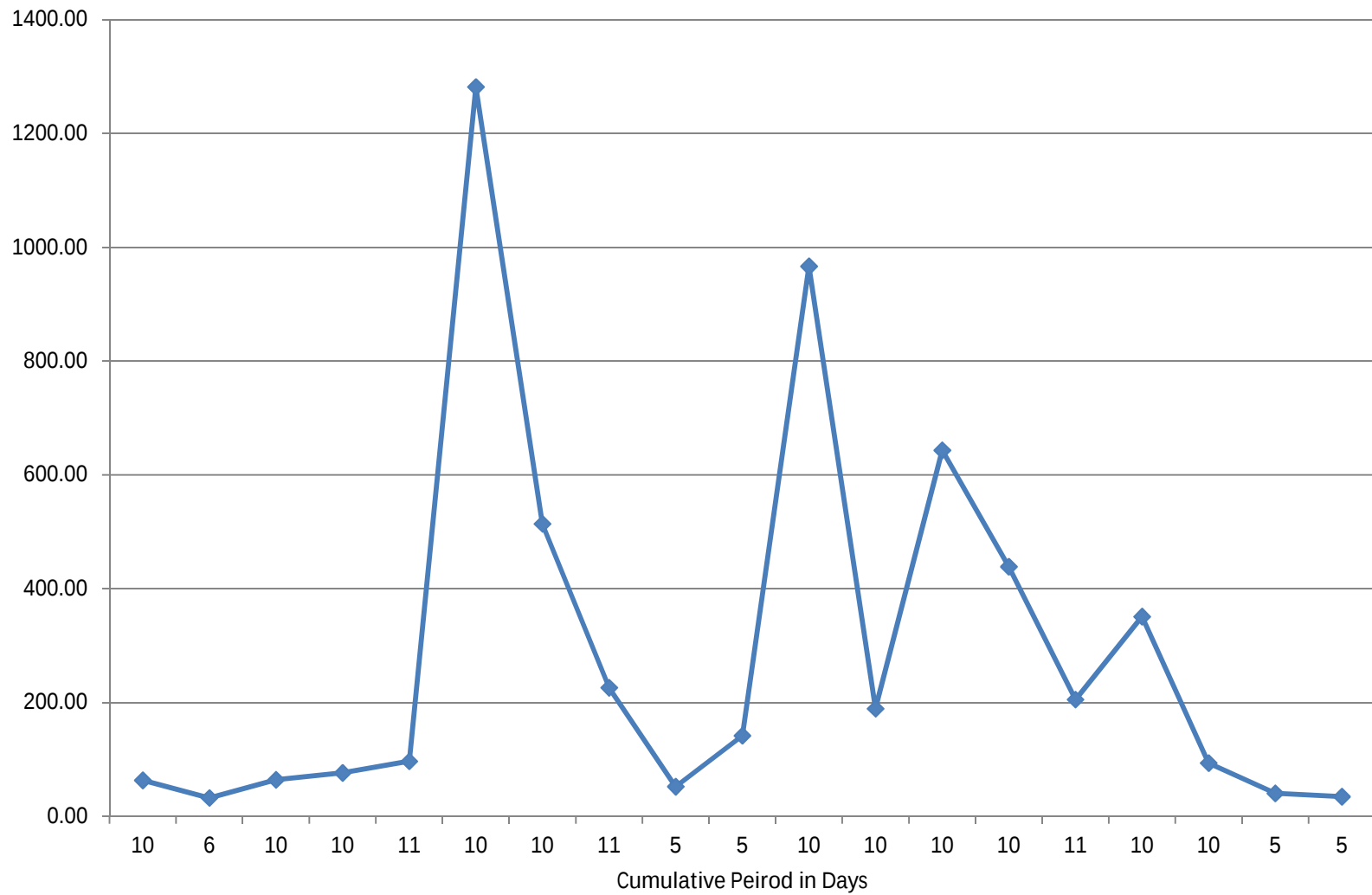
Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			85.85	5.43	85.95	7.15	86.13	13.86	86.05	9.58	86.09	10.19
2			85.89	6.34	88.75	325.93	86.09	10.19	86.17	16.08	86.05	9.58
3			85.93	6.88	87.85	177.06	86.07	9.88	86.29	22.80	86.85	61.00
4			85.89	6.34	87.57	136.98	86.03	9.27	86.23	17.29	86.95	70.47
5			85.87	6.06	87.93	188.36	86.03	9.27	86.19	15.54	86.81	57.16
6			85.85	5.43	87.61	148.41	86.01	8.96	86.15	15.54	86.69	49.13
7			86.01	8.47	87.25	100.59	86.05	9.58	87.85	178.00	86.57	40.40
8			85.93	6.88	86.81	58.66	86.03	9.27	87.71	159.74	86.47	33.57
9			85.91	6.61	85.65	3.63	86.95	70.47	87.37	113.95	86.07	9.88
10			85.87	6.06	87.55	135.39	86.81	43.62	87.15	91.38	86.07	9.88
11			85.87	6.06	87.37	113.95	88.05	202.65	86.93	69.19	86.05	9.58
12			85.85	5.47	86.95	70.47	87.65	151.78	86.77	54.89	86.05	9.58
13			85.85	5.47	86.75	60.82	87.43	123.38	86.73	51.27	86.05	9.58
14			85.85	5.47	86.71	56.98	87.27	102.03	86.65	45.72	86.07	9.88
15			86.07	9.06	86.65	45.72	87.17	92.79	86.59	41.42	86.05	9.58
16	85.97	7.38	86.15	13.67	86.55	39.43	87.05	78.74	86.53	37.35	86.03	9.27
17	85.95	7.11	86.07	9.33	86.51	36.40	86.93	69.19	86.49	33.40	86.03	9.27
18	85.93	6.67	85.99	7.70	86.49	35.48	86.83	59.83	86.45	40.63	86.03	9.27
19	86.05	9.10	85.97	7.42	86.41	29.09	86.69	49.13	86.43	38.59	86.01	8.96
20	85.99	8.66	85.93	6.88	86.35	25.86	86.53	37.35	86.37	26.62	86.01	8.96
21	85.95	7.15	85.91	6.61	86.33	24.26	86.43	30.87	86.33	24.26	85.99	8.66
22	85.91	6.61	86.23	19.22	86.33	24.26	86.35	25.86	86.31	23.53	85.97	8.35
23	85.85	5.43	86.15	13.67	86.31	23.53	86.27	21.30	86.25	20.59	85.97	8.35
24	85.85	5.43	86.07	9.33	86.29	22.01	86.23	19.22	86.23	19.22	85.95	8.05
25	85.85	5.43	86.03	8.76	86.25	20.59	86.19	16.63	86.19	17.29	85.93	7.31
26	85.85	5.43	85.95	7.15	86.23	19.22	86.15	14.92	86.27	21.30	85.93	7.31
27	85.85	5.43	85.93	6.88	86.29	22.01	86.07	9.88	86.23	19.22	85.91	7.02
28	85.85	5.43	85.91	6.61	86.23	19.22	86.19	16.63	86.19	17.29	85.91	7.02
29	85.85	5.43	85.89	6.34	86.21	17.89	86.23	19.22	86.17	16.08	85.89	6.73
30	85.85	5.43	85.89	6.34	86.19	17.29	86.15	14.92	86.13	13.86	85.89	6.73
31			85.87	6.06	86.17	16.08			86.11	12.85		
	Max	9.10		19.22		325.93		202.65		178.00		70.47
	Min	5.43		5.43		3.63		8.96		9.58		6.73
		Max	325.93									
		Min	3.63									

Discharge variation due to manual velocity measurement,

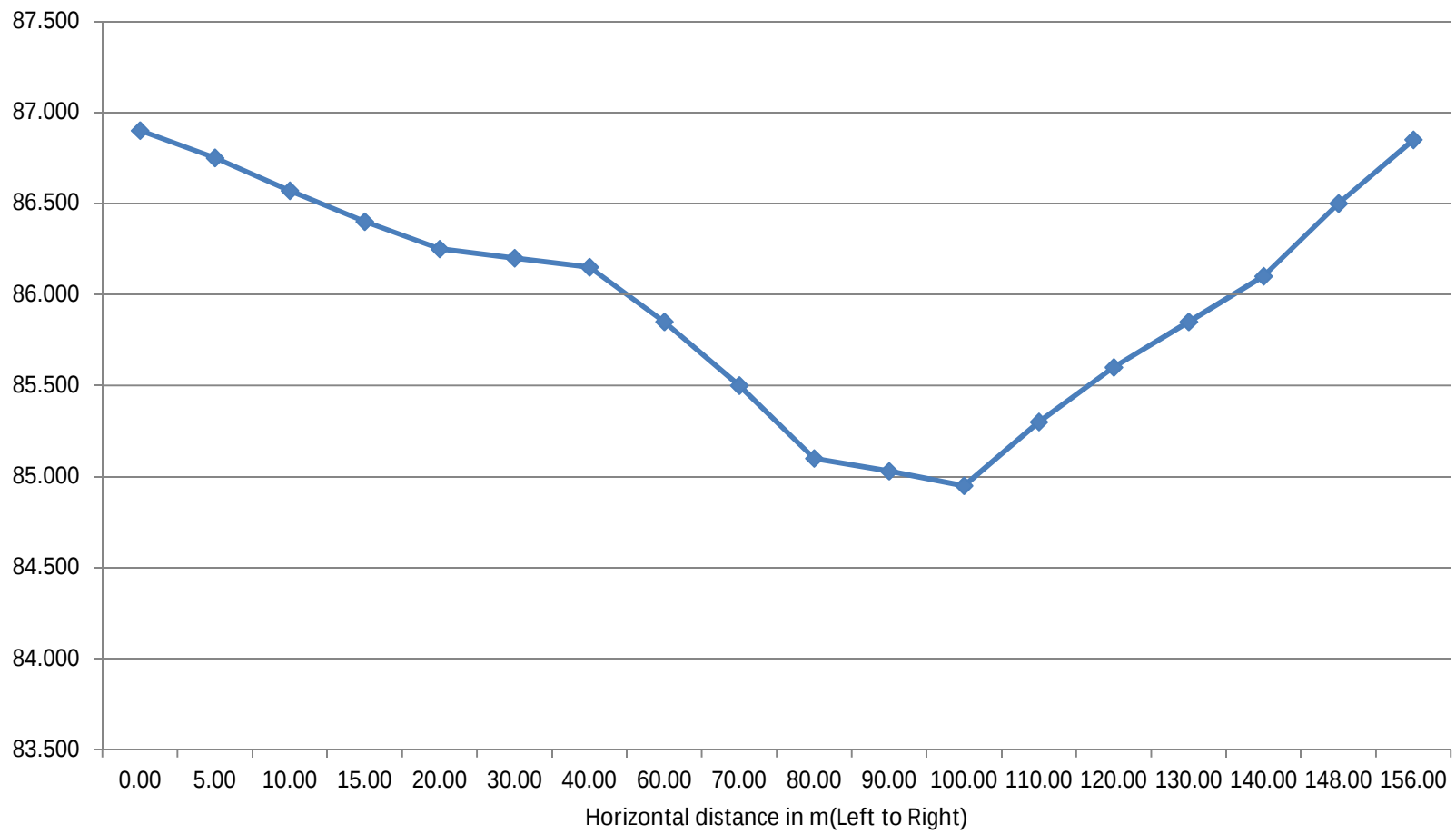
Stage Graph



Storm Hydrograph



C/S of River



SONE - BASIN

Basin
River
Site

Sone
Kanhra
Ramanujganj

Water Level Data
2012-13
Catchment area - Sqkm
TOPO SHEET NO. -

Zero of the Gauge
Unit of Water Level M
Unit of Discharge Cum

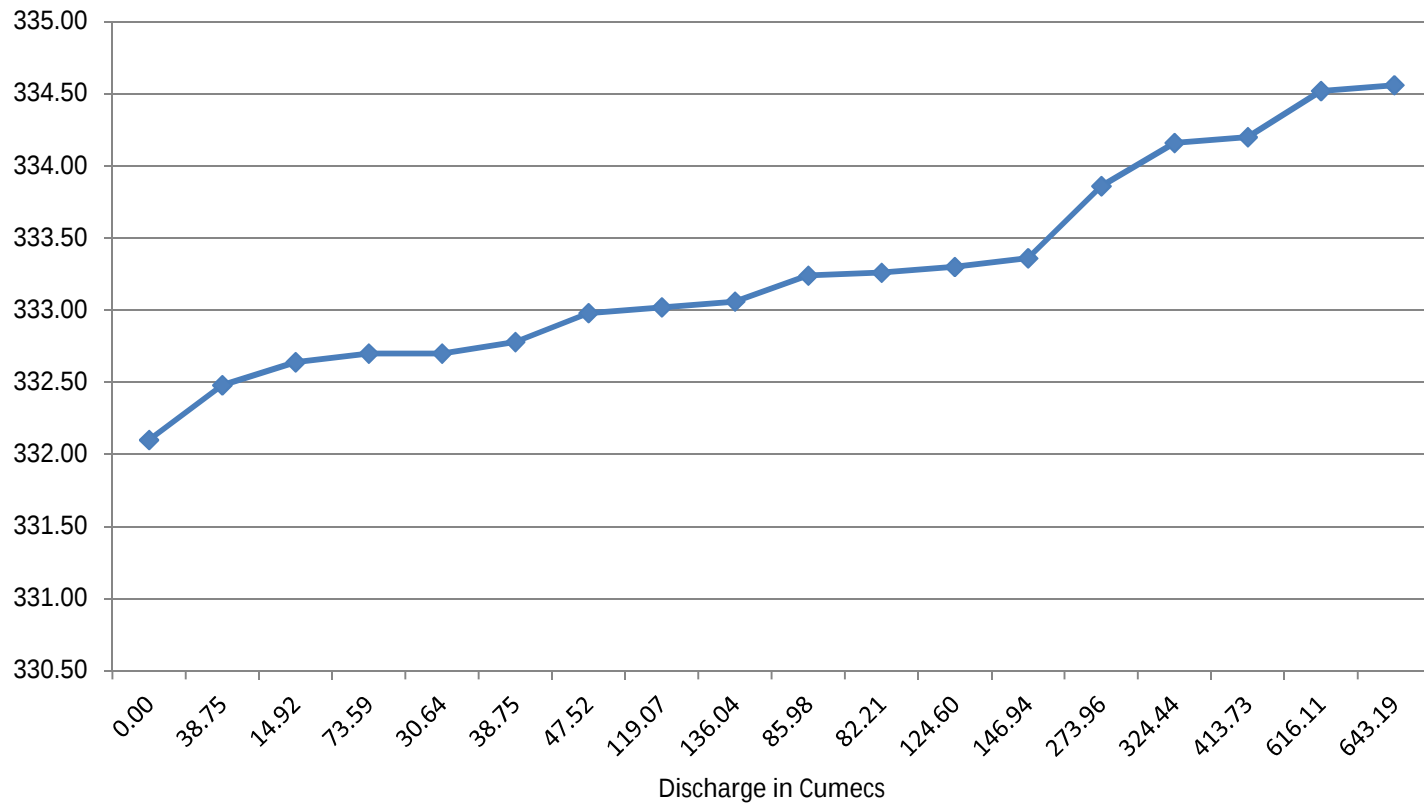
332.1

Date	June		July		August		September		October		November	
	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS	WL	DIS
1			332.70	38.75	333.96	324.44	333.86	273.96	333.36	146.94	332.64	30.64
2			332.64	30.64	334.02	341.94	333.80	258.49	333.30	132.64	332.70	38.75
3			332.58	23.60	334.08	354.18	333.74	248.35	333.22	116.88	332.76	44.33
4			332.52	19.90	334.14	403.06	333.68	229.20	333.14	102.30	332.80	50.83
5			332.50	17.94	334.20	435.46	333.62	232.78	333.08	87.87	332.88	60.79
6			332.56	22.78	334.26	462.56	333.56	193.20	333.02	82.21	332.94	70.17
7			333.00	80.32	334.32	504.07	333.50	180.49	333.22	116.88	332.98	73.59
8			333.06	83.30	334.38	533.69	333.44	164.60	333.20	114.70	333.02	82.21
9			333.12	97.38	334.44	571.28	333.38	149.44	333.12	100.24	333.04	84.10
10			333.18	109.48	334.50	610.13	333.32	138.48	333.08	87.87	333.08	87.87
11			333.24	119.07	334.56	643.19	333.26	124.60	333.02	82.21	333.06	85.98
12			333.30	132.64	334.62	677.12	334.20	233.51	332.96	71.88	333.04	84.10
13			333.36	143.36	334.68	703.91	334.44	307.06	332.90	64.52	332.98	76.04
14			333.42	158.21	334.74	731.14	334.56	650.76	332.84	55.70	332.96	74.28
15			333.48	169.85	334.80	775.65	334.70	718.32	332.78	47.52	332.94	72.51
16	332.46	14.30	333.54	186.12	334.82	782.46	334.70	718.32	332.74	43.03	332.92	70.74
17	332.52	19.90	333.50	178.49	334.76	745.83	334.48	589.76	332.74	43.03	332.90	64.52
18	332.58	23.60	333.44	164.60	334.70	718.32	334.40	553.08	332.72	40.00	332.88	62.96
19	332.64	30.64	333.38	149.44	334.64	683.38	334.30	498.83	332.72	40.00	332.84	59.83
20	332.70	38.75	333.32	138.48	334.58	641.68	334.24	457.74	332.72	40.00	332.80	48.88
21	332.76	44.33	333.30	136.04	334.52	616.11	334.16	413.73	332.70	38.75	332.78	47.52
22	332.82	52.23	333.36	146.94	334.46	584.09	334.04	351.79	332.70	38.75	332.76	44.33
23	332.88	58.62	333.42	158.21	334.40	553.08	333.96	324.44	332.68	35.88	332.62	29.68
24	332.94	67.83	333.48	173.80	334.34	509.32	333.88	287.92	332.68	35.88	332.58	26.37
25	332.98	73.59	333.54	186.12	334.28	480.56	333.80	268.43	332.68	35.88	332.56	24.12
26	333.00	80.32	333.60	203.42	334.22	446.53	333.74	248.35	332.66	33.18	332.54	20.67
27	332.94	70.17	333.66	216.96	334.16	413.73	333.66	221.48	332.66	33.18	332.52	18.66
28	332.88	58.62	333.72	240.31	334.10	471.71	333.60	203.42	332.64	30.64	332.50	17.94
29	332.82	52.23	333.78	259.96	334.04	455.59	333.50	176.48	332.64	30.64	332.48	14.92
30	332.76	44.33	333.84	280.66	333.98	534.24	333.44	160.78	332.62	29.68	332.48	14.92
31			333.90	312.76	334.92	843.13			332.62	29.68		
Max		80.32		312.76		843.13		718.32		43.03		70.74
Min		14.30		17.94		324.44		124.60		29.68		14.92

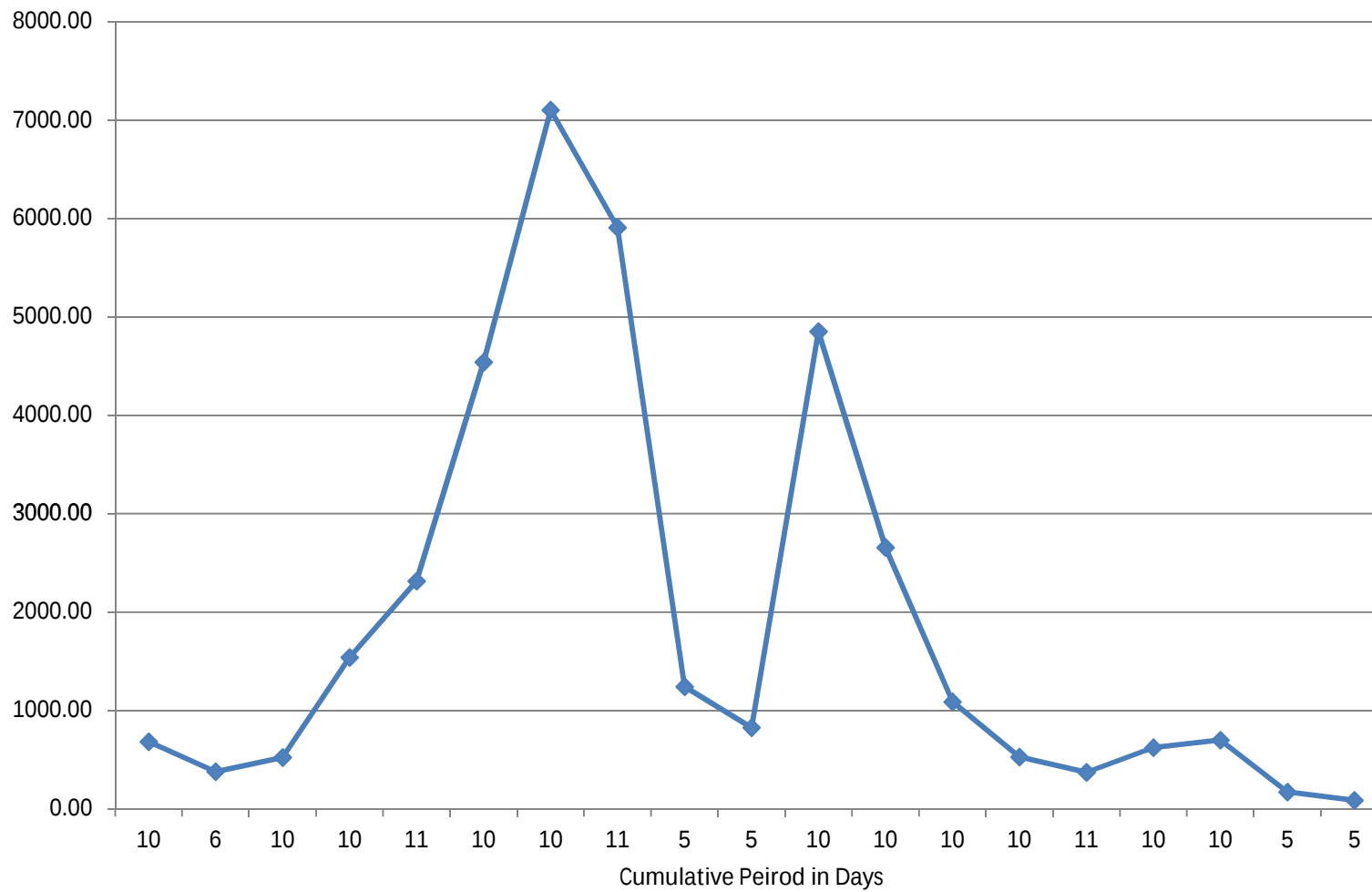
Discharge variation due to manual velocity measurement,

Max 843.13
Min 14.30

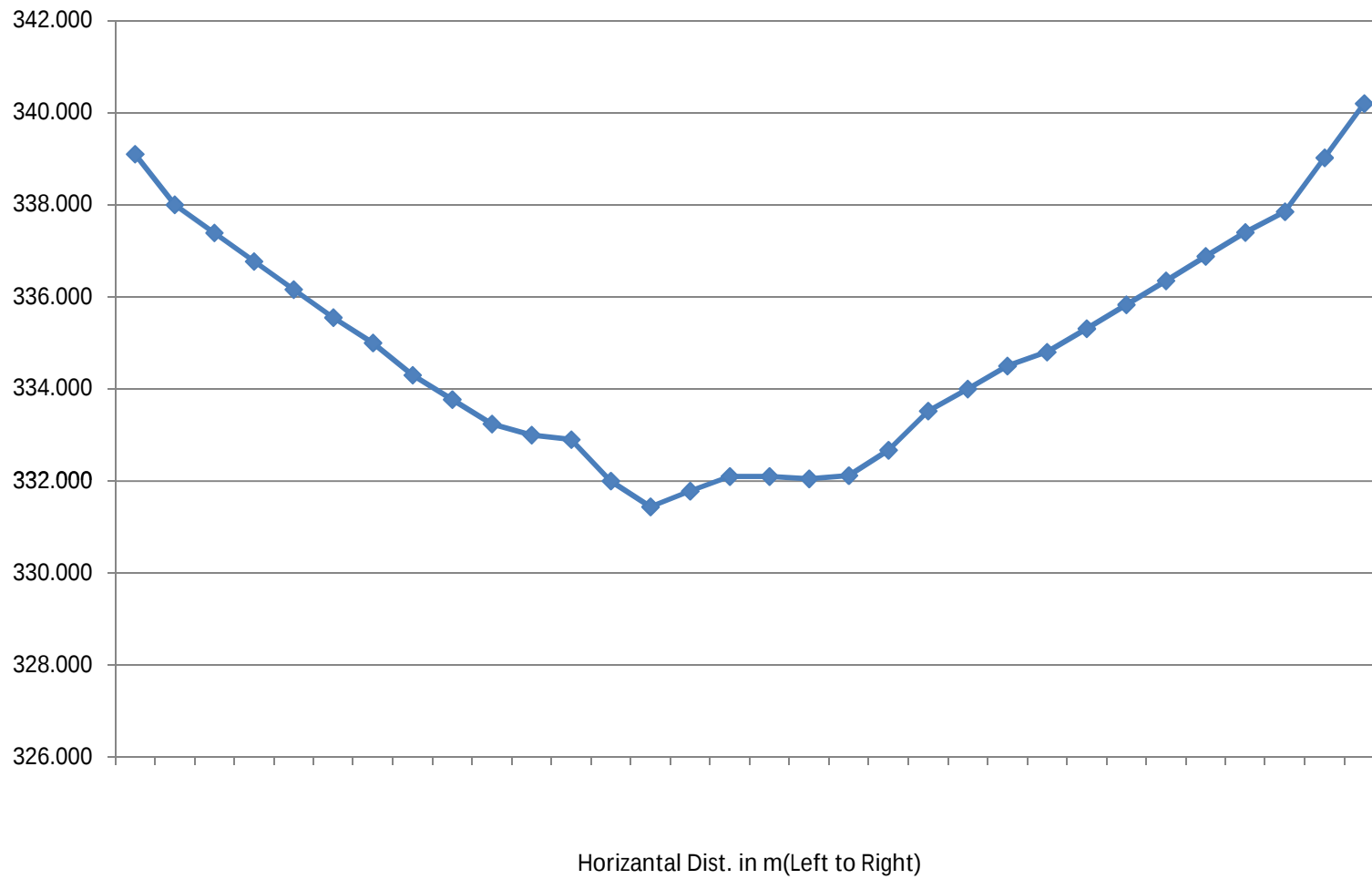
Stage Graph



Storm Hydrograph



C/S of River



Deoghar

WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin - Mayurakhsi
River - Mayurakhsi
Site- Dumka- Masalia Road

Unit of Water Level(WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 132.39 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	133.39	54.07	132.99	23.51	132.73	10.05	132.95	21.57	132.63	6.18
2	0.00	0.00	133.09	34.98	132.93	22.29	132.71	9.40	132.93	20.60	132.67	7.51
3	0.00	0.00	133.05	29.23	132.89	19.86	132.99	25.91	132.89	18.33	132.71	8.92
4	0.00	0.00	132.99	23.51	132.99	23.51	133.05	29.23	132.87	16.74	132.75	10.71
5	0.00	0.00	132.93	20.58	132.95	22.88	132.97	22.52	132.85	15.92	132.89	17.56
6	0.00	0.00	132.91	19.60	132.89	18.71	132.93	20.13	132.83	14.78	133.01	26.50
7	0.00	0.00	132.79	12.61	132.87	17.48	132.91	18.80	132.81	13.98	133.05	28.17
8	0.00	0.00	132.73	10.54	132.85	15.93	132.87	16.36	132.79	13.21	133.05	29.25
9	0.00	0.00	132.73	10.30	132.83	15.10	132.83	14.75	132.77	11.93	133.01	26.50
10	0.00	0.00	132.69	8.75	132.79	13.21	132.79	12.60	132.77	11.93	132.99	25.91
11	0.00	0.00	132.69	8.74	132.77	12.49	132.77	11.92	132.79	12.62	132.97	24.84
12	0.00	0.00	132.85	15.93	132.75	11.24	133.49	97.93	132.77	11.93	132.95	23.77
13	0.00	0.00	132.95	21.57	132.71	9.61	134.89	789.92	132.77	11.93	132.93	21.86
14	0.00	0.00	132.79	13.22	132.89	18.33	133.99	224.34	132.75	10.97	132.91	19.63
15	132.57	4.29	132.99	23.51	132.79	13.21	133.59	99.54	132.75	10.97	132.91	19.63
16	132.57	4.29	132.89	20.62	132.75	11.24	133.89	202.25	132.73	10.04	132.89	18.33
17	132.55	3.54	133.19	43.13	132.85	15.93	133.59	99.54	132.73	10.04	132.89	18.33
18	132.55	3.54	133.19	43.13	132.79	13.21	133.39	72.85	132.79	12.62	132.87	16.74
19	132.55	3.54	132.99	23.51	132.73	10.54	133.29	59.61	132.77	11.93	132.85	15.92
20	132.55	3.54	132.95	21.13	132.71	9.61	133.15	41.61	132.75	10.97	132.85	15.92
21	132.59	4.93	132.89	20.62	132.89	18.30	133.05	30.34	132.75	10.97	132.83	14.78
22	132.59	4.93	133.09	34.42	132.79	13.19	132.99	25.91	132.73	10.04	132.83	14.74
23	132.69	7.90	133.03	29.21	132.75	11.23	132.93	21.86	132.73	10.04	132.81	13.36
24	132.69	7.90	133.09	34.42	132.71	10.30	132.89	19.85	132.71	8.92	132.81	13.36

25	132.67	7.33	133.13	38.92	132.69	9.40	132.87	17.84	132.69	8.31	132.79	12.33
26	132.67	7.33	133.01	28.01	132.67	8.75	132.85	16.62	132.69	8.31	132.79	12.33
27	132.65	6.76	132.93	22.71	132.85	16.72	132.83	14.78	132.67	7.51	132.77	11.37
28	132.71	8.71	132.89	20.62	132.79	12.61	132.81	13.98	132.67	7.51	132.77	11.37
29	132.79	12.31	132.99	23.51	132.77	11.92	132.89	18.33	132.65	6.93	132.75	10.19
30	132.77	11.39	133.09	34.42	132.75	10.97	132.99	24.95	132.65	6.93	132.75	10.19
31	-	-	133.03	28.13	132.73	10.05	-	-	132.65	6.93	-	-
ABSTRACT												
Max		12.31		54.07		23.51		789.92		21.57		29.25
Min		3.54		8.74		8.75		9.40		6.93		6.18

Overall Max. Discharge	789.92
Overall Min. Discharge	3.54

J.E.

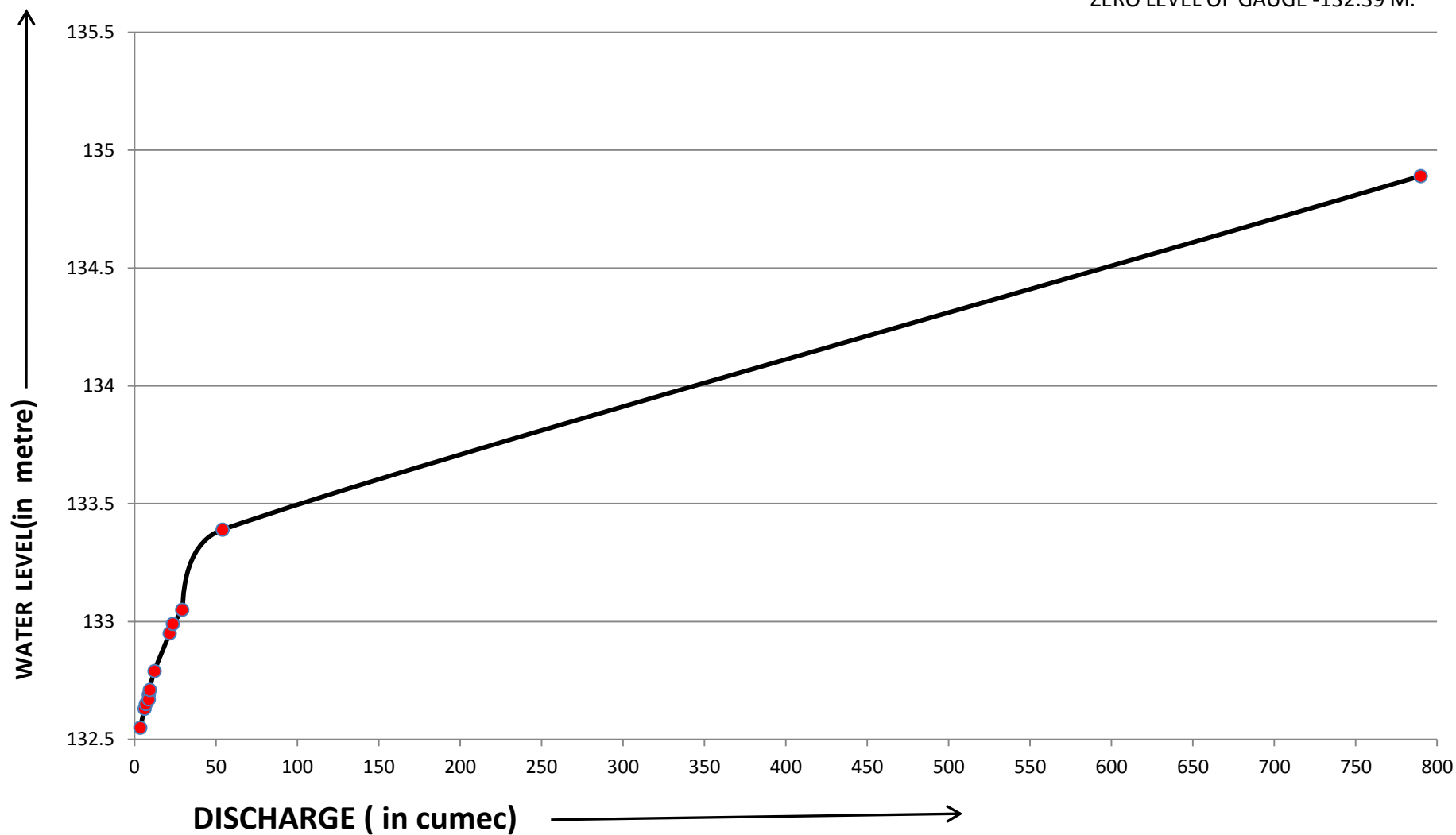
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STAGE GRAPH

YEAR 2012-13

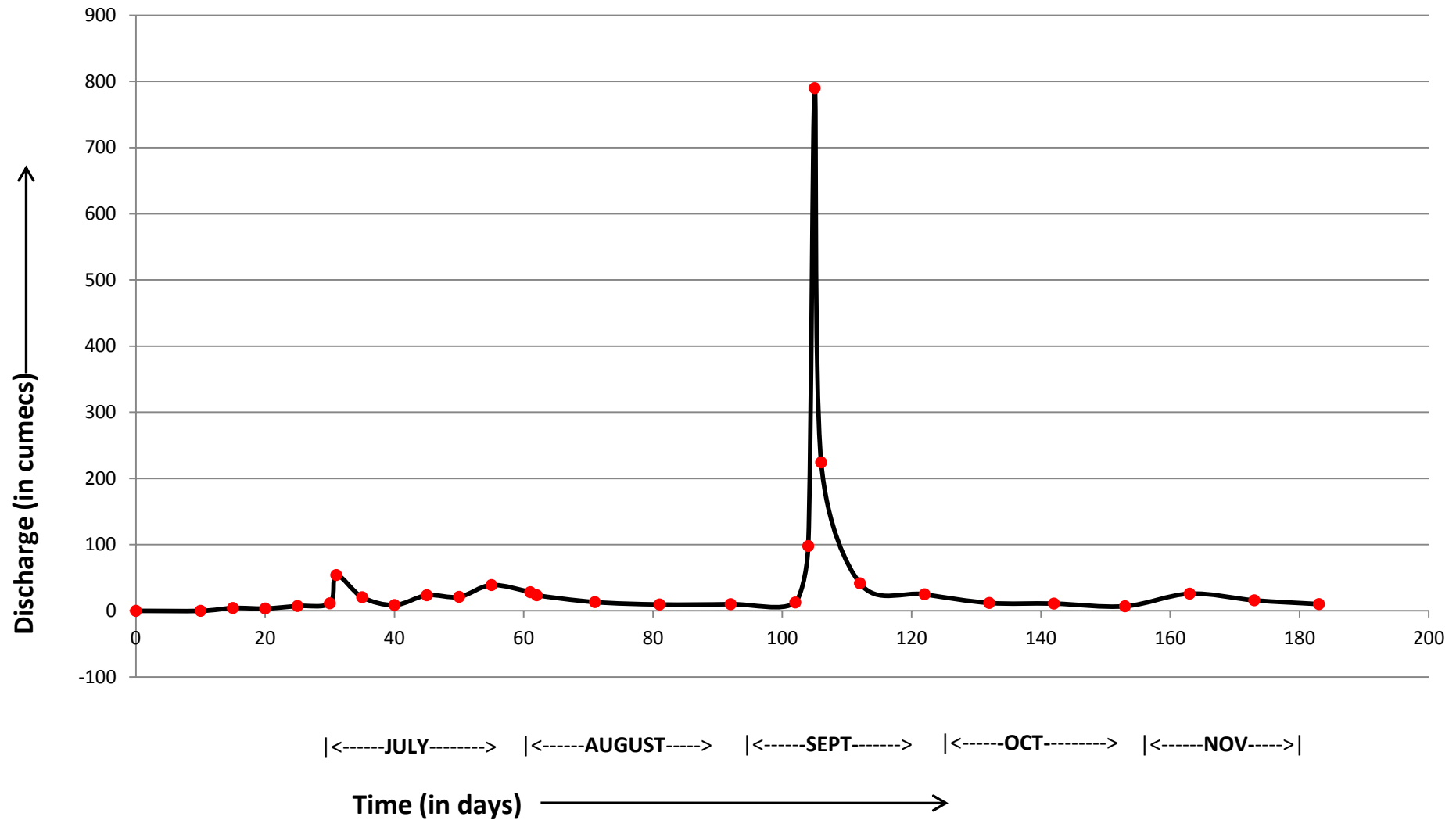
BASIN-MAYURAKSHI
RIVER-MAYURAKSHI
SITE-DUMKA-MASALIA ROAD
ZERO LEVEL OF GAUGE -132.39 M.



STORM HYDROGRAPH

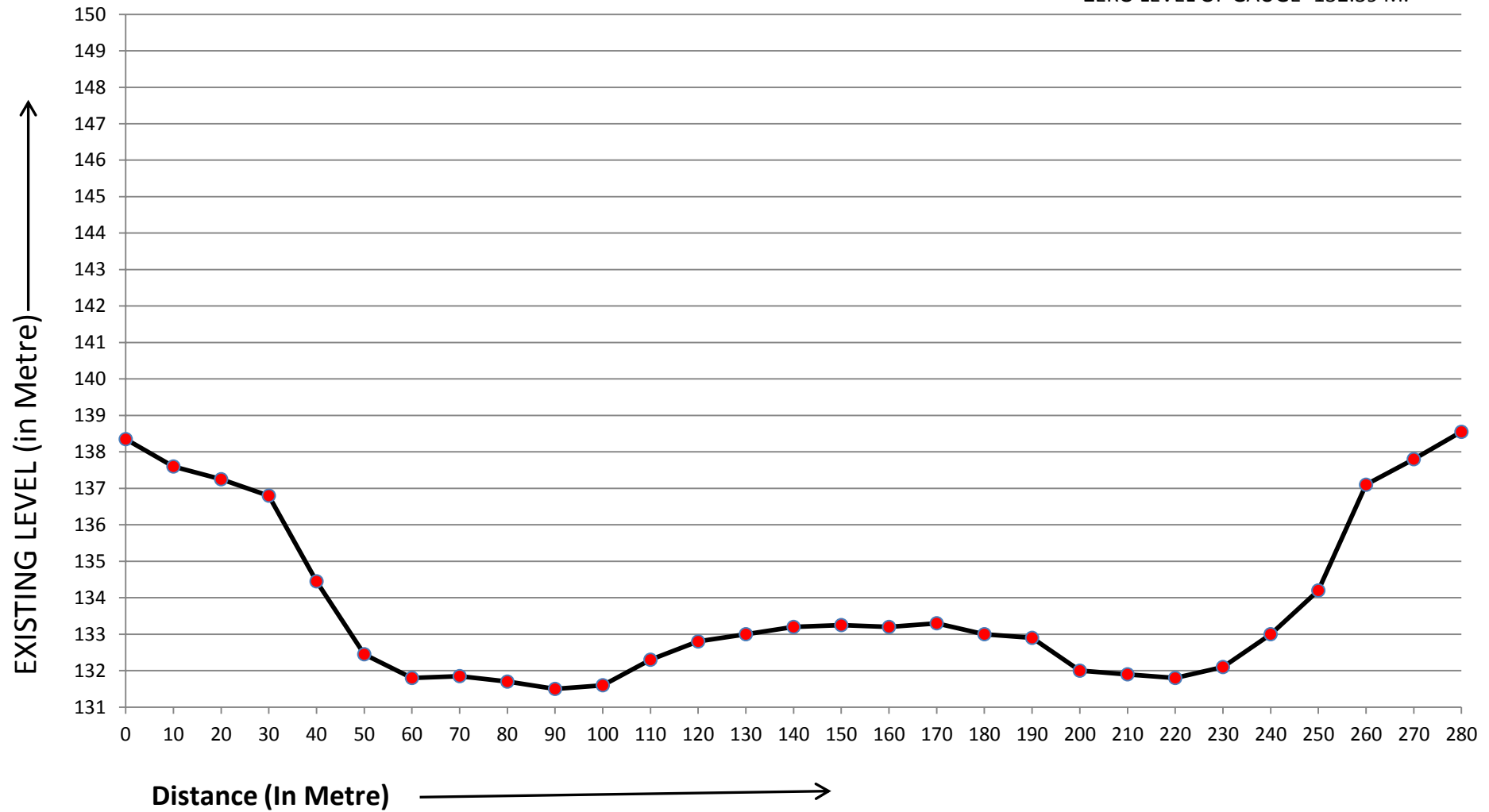
YEAR 2012-13

*BASIN-MAYURAKSHI
RIVER-MAYURAKSHI
SITE-DUMKA- MASALIA ROAD*



Cross Section of river at gauge station

BASIN-MAYURAKSHI
RIVER-MAYURAKSHI
SITE-DUMKA-MASALIA ROAD
ZERO LEVEL OF GAUGE -132.39 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin - Mayurakshi
 River - Bansloi
 Site- Maheshpur- Hiranpur Road

Unit of Water level (W.L.) in M
 Unit of Discharge m³/ Sec.
 Zero Level of the gauge -89.31 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	89.43	1.12	90.13	58.20	90.11	55.71	89.93	28.90	89.61	3.67
2	0.00	0.00	89.45	1.32	90.15	61.65	90.03	47.98	89.93	28.90	89.57	3.03
3	0.00	0.00	89.47	1.53	90.13	58.20	89.97	34.29	89.93	28.90	89.55	2.68
4	0.00	0.00	89.47	1.53	90.11	55.71	89.93	28.90	89.89	23.86	89.53	2.40
5	0.00	0.00	89.47	1.53	90.07	50.75	89.91	25.84	89.89	23.86	89.53	2.40
6	0.00	0.00	89.47	1.53	90.11	55.71	89.99	37.09	89.87	21.93	89.49	1.78
7	0.00	0.00	89.47	1.53	90.13	58.20	90.11	55.71	89.85	19.61	89.45	1.32
8	0.00	0.00	89.49	1.78	90.15	61.65	90.15	61.65	89.89	23.86	89.45	1.32
9	0.00	0.00	89.49	1.78	90.15	61.65	90.12	56.96	89.93	28.90	89.43	1.12
10	0.00	0.00	89.47	1.53	90.17	64.19	90.09	53.20	89.99	37.10	89.39	0.84
11	0.00	0.00	89.47	1.53	90.19	68.78	90.03	47.98	89.97	34.29	89.39	0.84
12	0.00	0.00	89.49	1.78	90.21	71.40	90.01	42.02	89.95	32.12	89.39	0.84
13	0.00	0.00	89.49	1.78	90.21	71.40	89.95	32.12	89.85	19.61	89.39	0.84
14	0.00	0.00	89.49	1.78	90.19	68.78	89.93	28.90	89.81	14.30	89.37	0.71
15	89.45	1.32	89.51	2.13	90.25	81.26	90.03	47.31	89.77	10.39	89.37	0.71
16	89.45	1.32	89.66	5.33	90.25	81.26	90.01	42.02	89.73	7.82	89.39	0.84
17	89.47	1.53	89.81	14.30	90.23	76.25	89.97	34.29	89.73	7.82	89.39	0.84
18	89.49	1.78	89.85	19.61	90.21	71.40	89.97	34.29	89.75	8.99	89.39	0.84
19	89.49	1.78	89.87	21.93	90.19	68.78	90.03	47.31	89.73	7.82	89.37	0.71
20	89.51	2.13	89.85	19.61	90.17	64.19	89.95	47.31	89.71	6.65	89.37	0.71
21	89.51	2.13	89.89	23.86	90.13	58.20	89.93	32.12	89.73	7.82	89.39	0.84
22	89.49	1.78	89.93	28.90	90.13	58.20	89.91	28.90	89.71	6.65	89.37	0.71
23	89.51	2.13	89.95	32.12	90.13	58.20	89.91	85.84	89.67	5.56	89.37	0.71
24	89.53	2.40	89.95	32.12	90.09	53.20	89.93	85.84	89.65	4.98	89.37	0.71

25	89.51	2.13	89.99	37.09	90.05	49.04	89.95	28.90	89.63	4.98	89.37	0.71
26	89.49	1.78	90.01	42.02	90.03	47.98	89.99	32.12	89.63	4.54	89.39	0.84
27	89.49	1.78	90.01	42.02	89.99	37.09	90.01	37.10	89.65	4.98	89.37	0.71
28	89.47	1.53	89.97	34.29	89.95	32.12	89.99	42.02	89.63	4.54	89.37	0.71
29	89.45	1.32	90.01	42.02	89.93	28.90	90.01	37.10	89.65	4.98	89.37	0.71
30	89.45	1.32	90.11	55.71	90.01	42.02	89.95	28.90	89.61	3.67	89.37	0.71
31	—	—	90.13	58.21	89.99	37.09		—	89.65	4.98	.	—
ABSTRACT												
Max		2.40		58.21		81.26		85.84		37.10		3.67
Min		1.32		1.12		28.90		25.84		3.67		0.71

Overall Max. Discharge	85.84
Overall Min. Discharge	0.71

J.E.

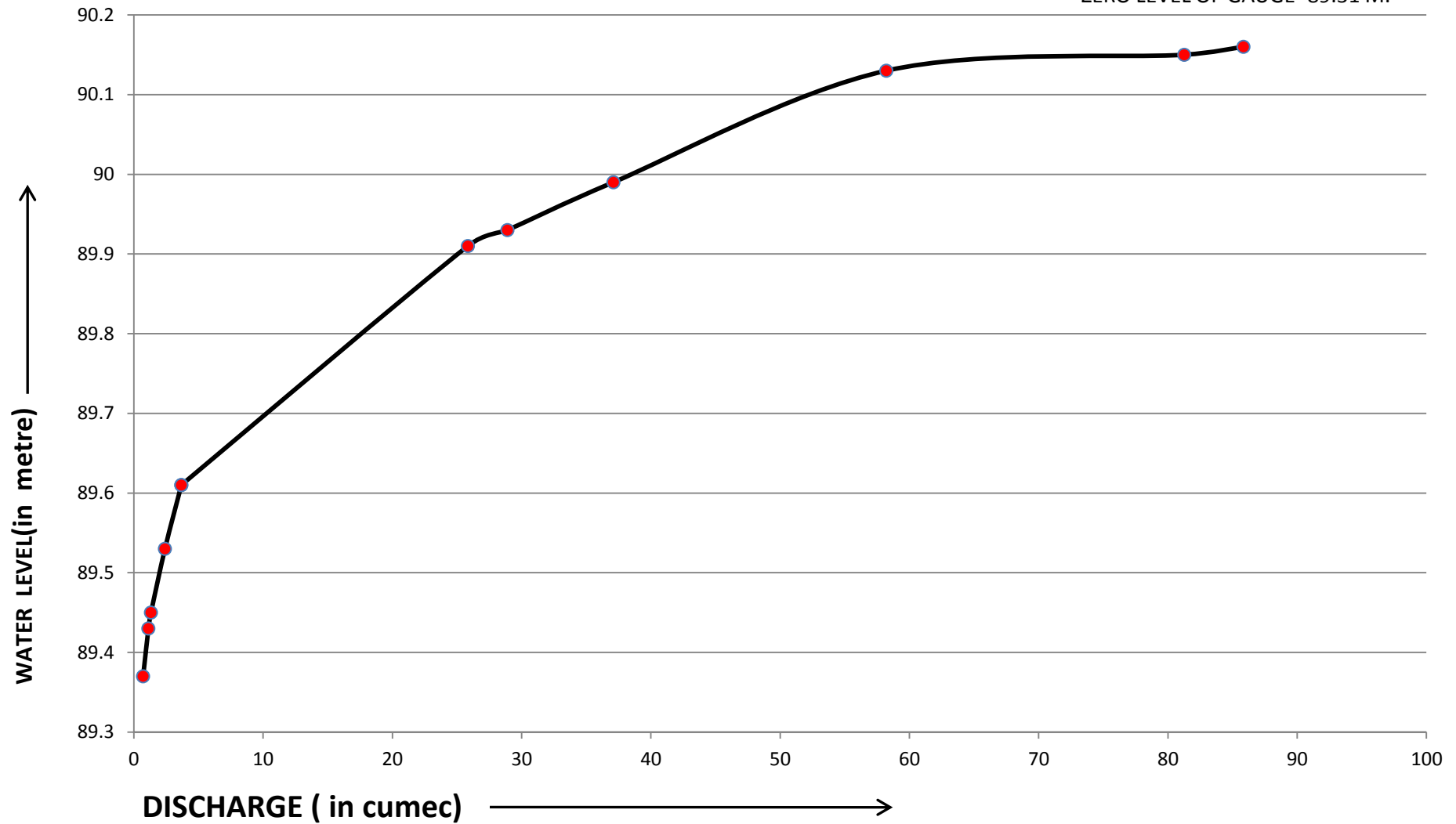
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

BASIN-MAYURAKSHI
RIVER-BANSLOI
SITE-MAHESHPUR-HIRANPUR ROAD
ZERO LEVEL OF GAUGE -89.31 M.



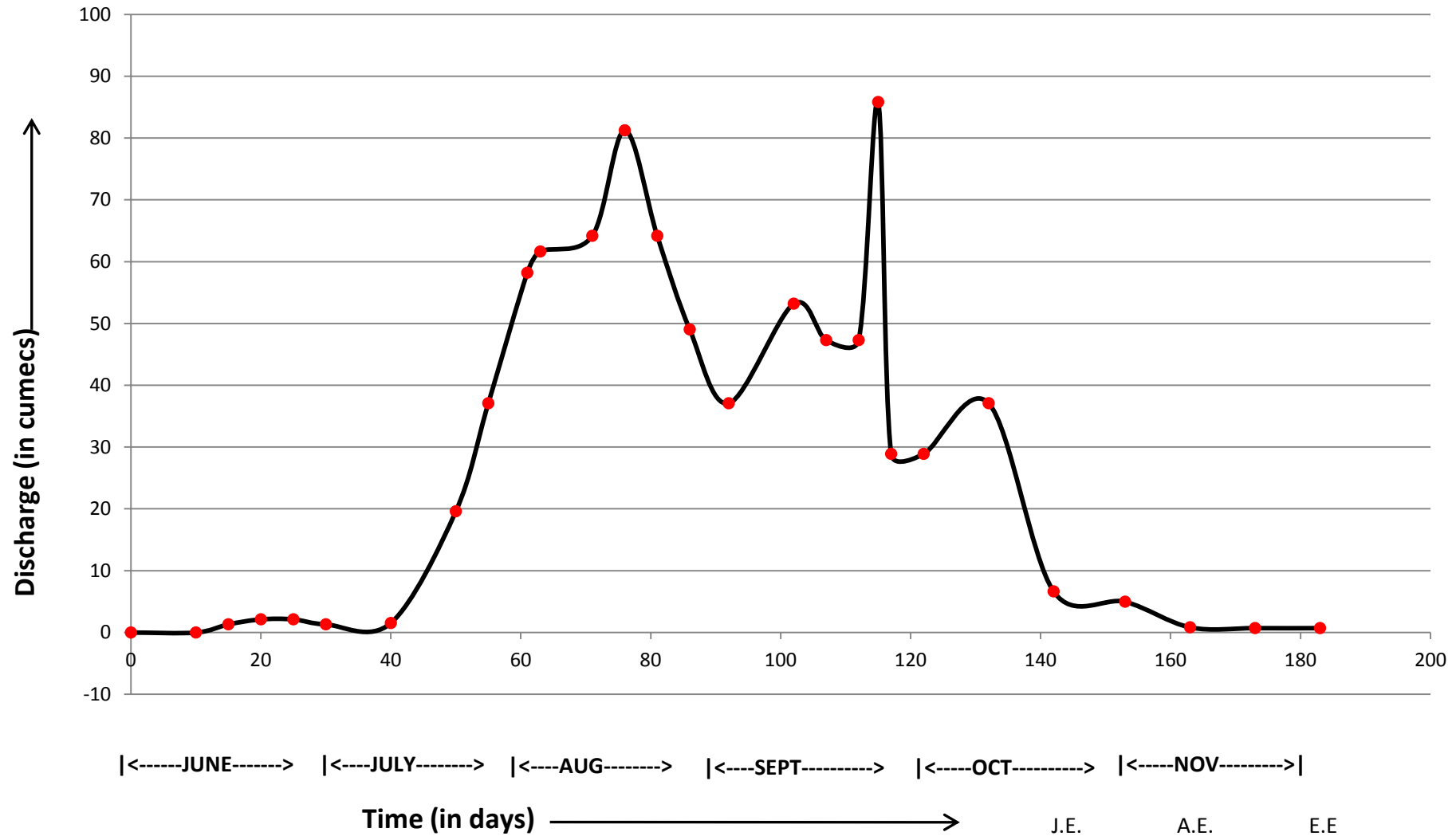
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-MAYURAKSHI

RIVER-BANSLOI

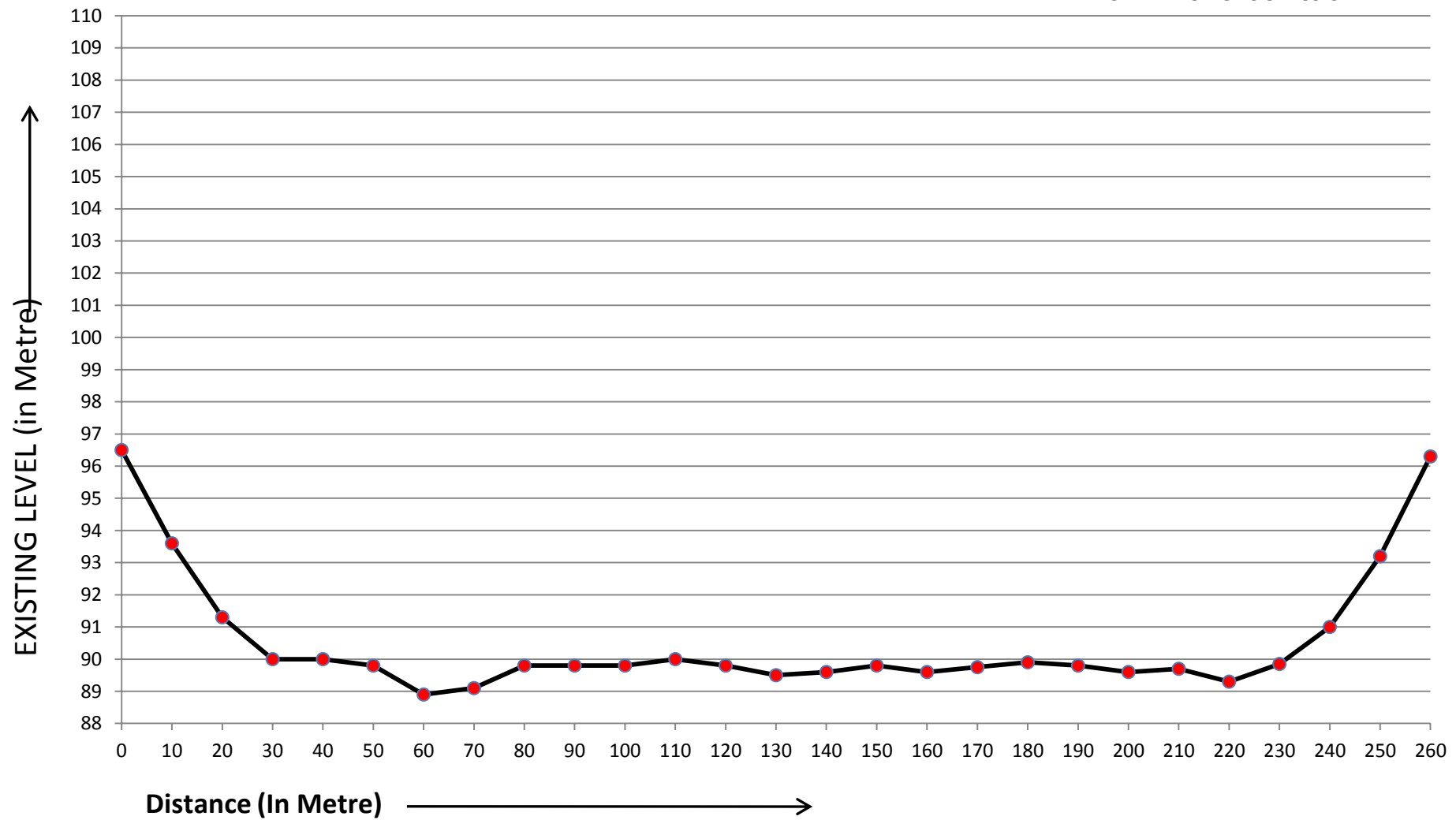
SITE-MAHESHPUR-HIRANPUR ROAD



Cross Section of river at gauge station

YEAR 2012-13

BASIN-MAYURAKSHI
RIVER-BANSLOI
SITE-MAHESHPUR-HIRANPUR ROAD
ZERO LEVEL OF GAUGE -89.31 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Mayurakshi
River - Basane
Site- Amrapara-Dumka Road

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 94.14 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	95.09	40.72	96.24	189.50	96.44	230.25	96.19	173.51	95.69	97.92
2	0.00	0.00	95.24	57.57	96.04	157.10	96.32	215.20	96.06	145.87	95.94	138.00
3	0.00	0.00	95.44	68.35	95.90	139.72	96.14	168.04	95.91	121.29	96.34	201.50
4	0.00	0.00	95.64	81.16	95.64	81.16	96.04	143.69	95.82	105.93	96.52	260.73
5	0.00	0.00	95.64	81.16	95.49	69.40	96.12	165.85	95.66	85.39	96.59	280.86
6	0.00	0.00	95.54	70.75	95.72	118.63	96.39	223.98	95.84	104.09	96.64	266.20
7	0.00	0.00	95.39	67.49	95.89	126.66	96.44	222.90	96.09	126.89	96.57	238.68
8	0.00	0.00	95.12	41.08	95.94	146.96	96.34	201.50	96.24	177.33	96.44	213.10
9	0.00	0.00	94.89	27.13	95.82	124.13	96.12	155.74	96.29	184.45	96.34	185.29
10	0.00	0.00	95.09	40.72	95.92	141.86	96.01	136.93	96.19	162.93	96.24	159.34
11	0.00	0.00	95.44	68.35	96.04	157.10	96.19	162.93	96.09	144.73	96.14	137.30
12	0.00	0.00	95.84	112.48	96.14	168.04	96.44	230.25	95.99	123.91	96.02	126.58
13	0.00	0.00	96.19	162.93	96.29	195.70	96.49	213.87	95.99	118.36	95.94	111.10
14	0.00	0.00	96.64	230.55	96.37	200.27	96.34	201.50	96.01	116.30	95.82	96.00
15	94.39	9.76	96.64	230.88	96.62	230.75	96.44	230.25	95.89	93.69	95.71	85.64
16	94.39	9.76	96.77	236.95	96.69	232.55	96.62	244.75	95.76	52.50	95.82	92.68
17	94.40	10.34	97.09	282.53	96.54	224.71	96.59	241.11	95.60	71.58	95.69	81.35
18	94.41	10.70	97.49	381.01	96.42	198.67	96.44	208.21	95.52	69.55	95.52	68.23
19	94.42	10.80	97.58	393.55	96.34	189.92	96.34	189.92	95.52	70.86	95.34	56.43
20	94.42	10.80	97.59	396.63	96.14	186.49	96.22	166.01	95.49	66.45	95.24	50.62
21	94.40	10.34	97.54	386.09	96.52	232.61	96.09	144.73	95.43	59.25	95.14	42.17
22	94.69	21.62	97.34	319.85	96.56	227.02	95.96	125.24	95.41	61.69	95.07	38.34
23	94.96	30.99	97.14	288.52	96.36	192.10	96.14	178.29	95.41	61.69	94.94	30.93
24	95.12	41.08	96.94	271.13	96.42	205.94	96.39	224.07	95.64	85.51	94.86	27.95

25	95.04	39.76	96.74	235.95	96.49	213.88	96.42	227.74	95.59	78.02	94.74	22.97
26	95.09	40.72	96.59	225.21	96.34	189.92	96.32	215.20	95.59	76.63	94.64	18.90
27	95.14	47.44	96.51	208.51	96.24	178.98	96.22	183.26	95.56	73.33	94.51	13.94
28	95.06	40.10	96.58	210.90	96.12	155.74	96.14	163.94	95.62	79.88	94.39	9.76
29	94.92	28.50	96.69	232.55	95.99	135.00	96.19	198.90	95.62	76.63	94.42	10.81
30	94.92	28.50	96.60	218.36	96.14	186.49	96.30	205.90	95.56	70.10	94.42	10.55
31	-	-	96.44	208.21	96.39	207.30	-	-	95.54	68.08	-	-
ABSTRACT												
Max		47.44		396.63		232.61		244.75		184.45		280.86
Min		9.76		27.13		69.40		125.24		52.50		9.76

Overall Max. Discharge	396.63
Overall Min. Discharge	9.76

J.E.

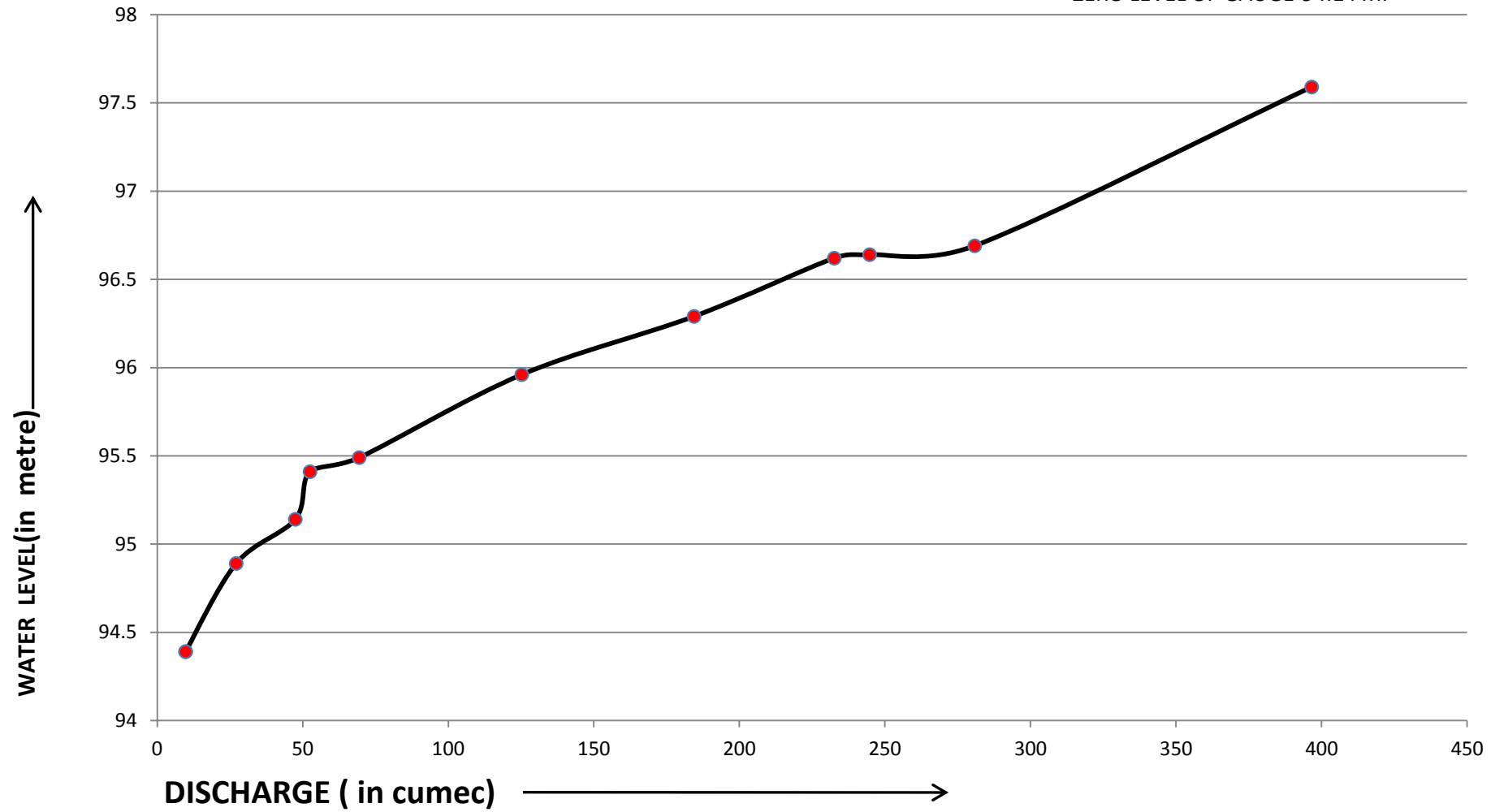
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E.E.

STAGE GRAPH

YEAR 2012-13

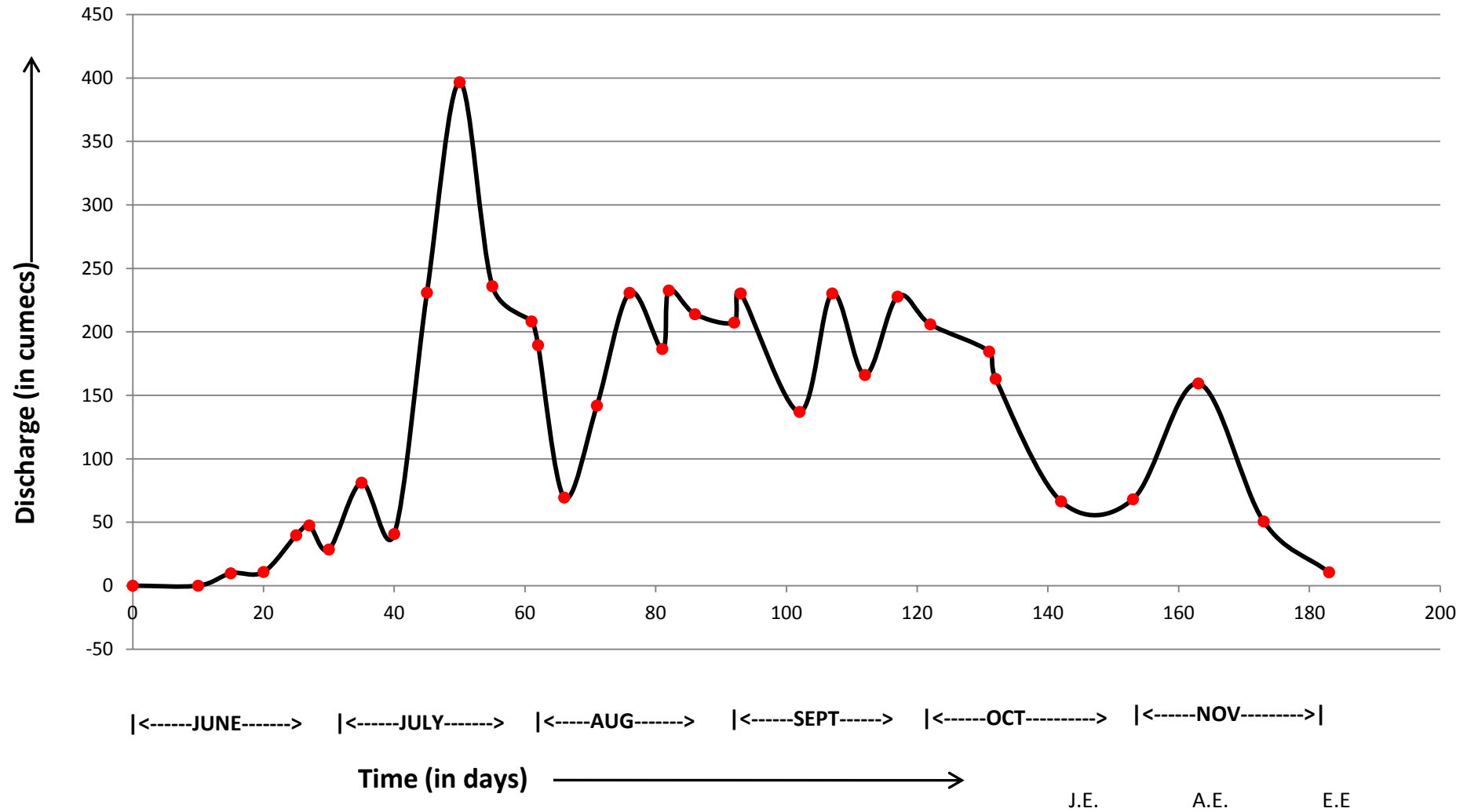
BASIN-MAYRAKSHI
RIVER-BASANE
SITE-AMRAPARA-DUMKA ROAD
ZERO LEVEL OF GAUGE-94.14 M.



STORM HYDROGRAPH

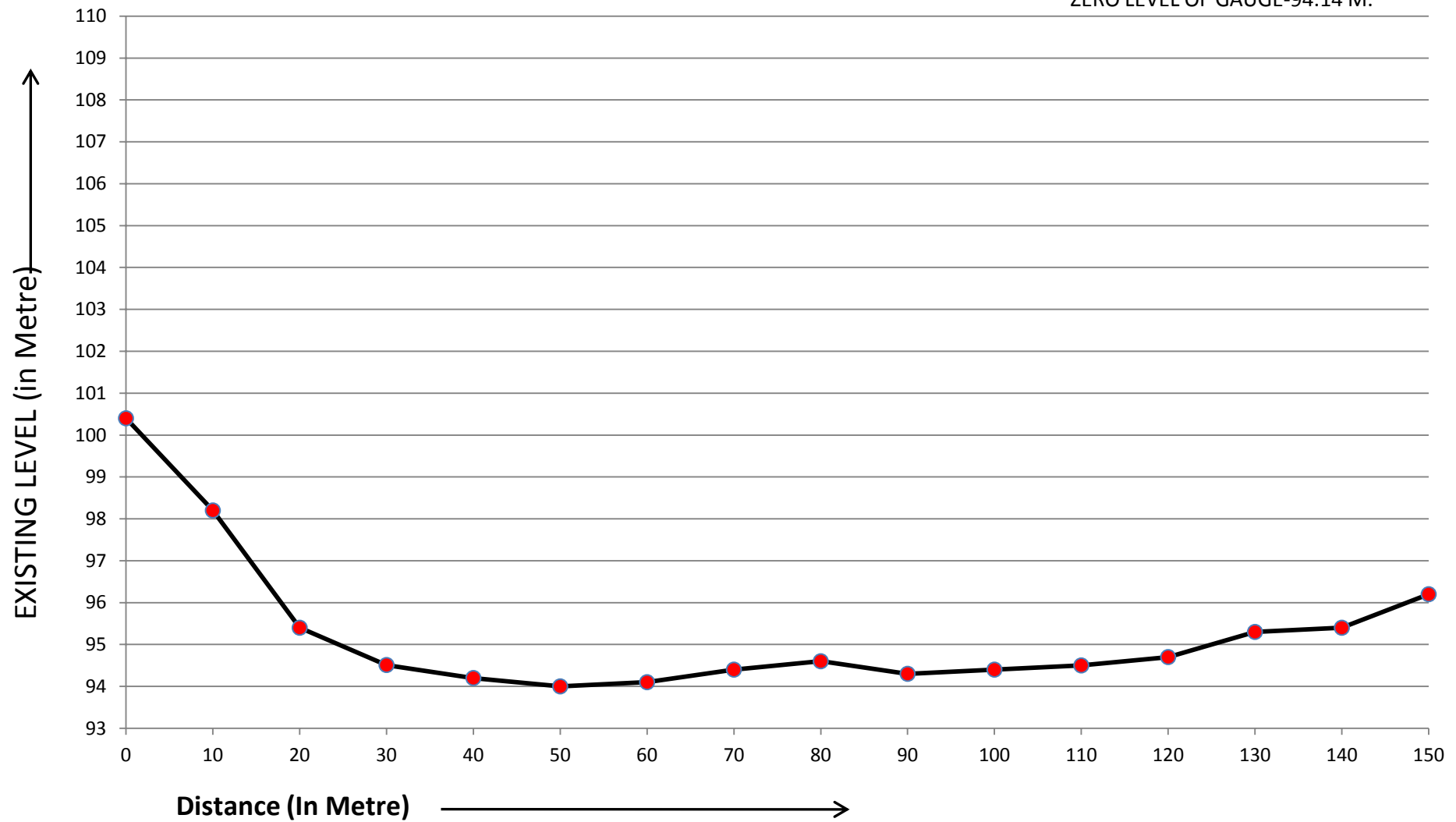
YEAR: 2012-13

BASIN-MAYURAKSHI
RIVER-BASANE
SITE-AMRAPARA-DUMKA ROAD



Cross Section of river at gauge station
YEAR 2012-13

BASIN-MAYRAKSHI
RIVER-BASANE
SITE-AMRAPARA-DUMKA ROAD
ZERO LEVEL OF GAUGE-94.14 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Ajay
River-Ajay
Site- Kundhit Jamtara Road

Unit of Water Level(WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 137.87 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	139.77	54.21	140.57	169.80	139.79	55.52	140.19	85.44	139.78	54.21
2	0.00	0.00	139.75	53.00	140.37	118.24	139.77	54.21	140.13	75.28	139.77	54.21
3	0.00	0.00	139.73	52.46	140.33	105.64	139.76	54.21	140.05	65.35	139.76	54.21
4	0.00	0.00	139.71	52.10	140.27	91.80	139.77	54.21	139.99	58.40	139.80	55.61
5	0.00	0.00	139.65	45.45	140.67	202.96	139.93	62.35	140.05	65.35	139.86	58.23
6	0.00	0.00	140.77	253.90	140.59	175.87	139.87	60.00	140.01	60.99	140.83	271.62
7	0.00	0.00	140.65	200.75	140.47	128.03	139.81	56.61	139.97	57.78	140.62	200.13
8	0.00	0.00	139.87	60.00	140.37	102.64	139.77	54.21	139.95	56.03	140.47	142.55
9	0.00	0.00	139.97	66.85	140.27	87.52	141.22	437.03	139.93	53.58	140.35	110.66
10	0.00	0.00	139.87	60.00	140.19	76.55	140.78	230.36	140.03	63.05	140.27	103.36
11	0.00	0.00	139.87	60.00	140.42	115.41	140.48	143.65	139.97	57.22	140.25	98.15
12	0.00	0.00	140.47	142.55	140.35	100.96	140.72	226.93	139.96	56.06	140.21	90.25
13	0.00	0.00	140.27	103.36	140.29	89.04	140.48	147.83	139.95	56.06	140.19	86.95
14	0.00	0.00	140.19	88.95	140.47	125.95	140.29	100.56	139.95	54.74	140.17	82.35
15	139.82	66.89	140.17	80.81	140.37	105.92	140.17	80.02	139.94	53.61	140.15	81.17
16	139.75	58.65	140.57	169.79	140.31	88.50	141.52	675.11	139.94	53.61	140.13	80.81
17	139.71	52.10	140.13	80.81	140.29	84.69	141.75	869.19	139.93	52.31	140.11	76.88
18	139.69	51.72	140.13	80.81	141.17	458.88	140.89	281.88	139.93	52.31	140.09	73.28
19	139.69	51.72	140.11	76.88	140.67	219.13	140.55	160.66	139.92	51.21	140.07	70.21
20	139.67	49.69	140.09	73.28	140.57	177.14	140.33	107.23	139.92	51.21	140.05	68.50
21	139.67	49.69	140.07	70.21	140.47	137.21	140.72	226.93	139.91	50.12	140.03	64.86
22	139.67	49.69	140.03	64.86	140.39	112.66	140.49	148.95	139.90	49.04	140.01	62.76
23	140.27	116.44	140.01	62.76	140.29	90.58	140.67	182.66	139.89	47.99	139.98	60.12
24	140.67	219.13	139.99	60.52	140.24	82.30	140.27	114.68	139.88	47.13	139.92	51.21

25	140.37	134.11	139.97	60.52	140.15	68.37	139.83	56.61	139.87	45.93	139.85	44.07
26	140.17	99.30	139.95	57.78	140.97	380.34	140.37	102.84	139.86	45.08	139.82	41.29
27	139.97	68.93	140.27	101.86	140.60	186.30	140.03	64.86	139.85	44.07	139.80	39.84
28	139.87	57.62	140.39	124.50	140.40	117.21	139.79	55.52	139.84	43.08	139.77	34.97
29	139.81	53.14	140.67	219.13	140.25	84.02	139.87	60.00	139.83	42.10	139.75	33.83
30	139.79	52.10	140.37	116.32	140.05	68.50	140.17	79.07	139.82	41.29	139.73	32.70
31	-	-	140.27	101.86	139.87	58.30	-	-	139.80	39.84	-	-
ABSTRACT												
Max		219.13		253.90		458.88		869.19		85.44		271.62
Min		49.69		45.45		58.30		54.21		39.84		32.70

Overall Max. Discharge	869.19
Overall Min. Discharge	32.70

J.E.

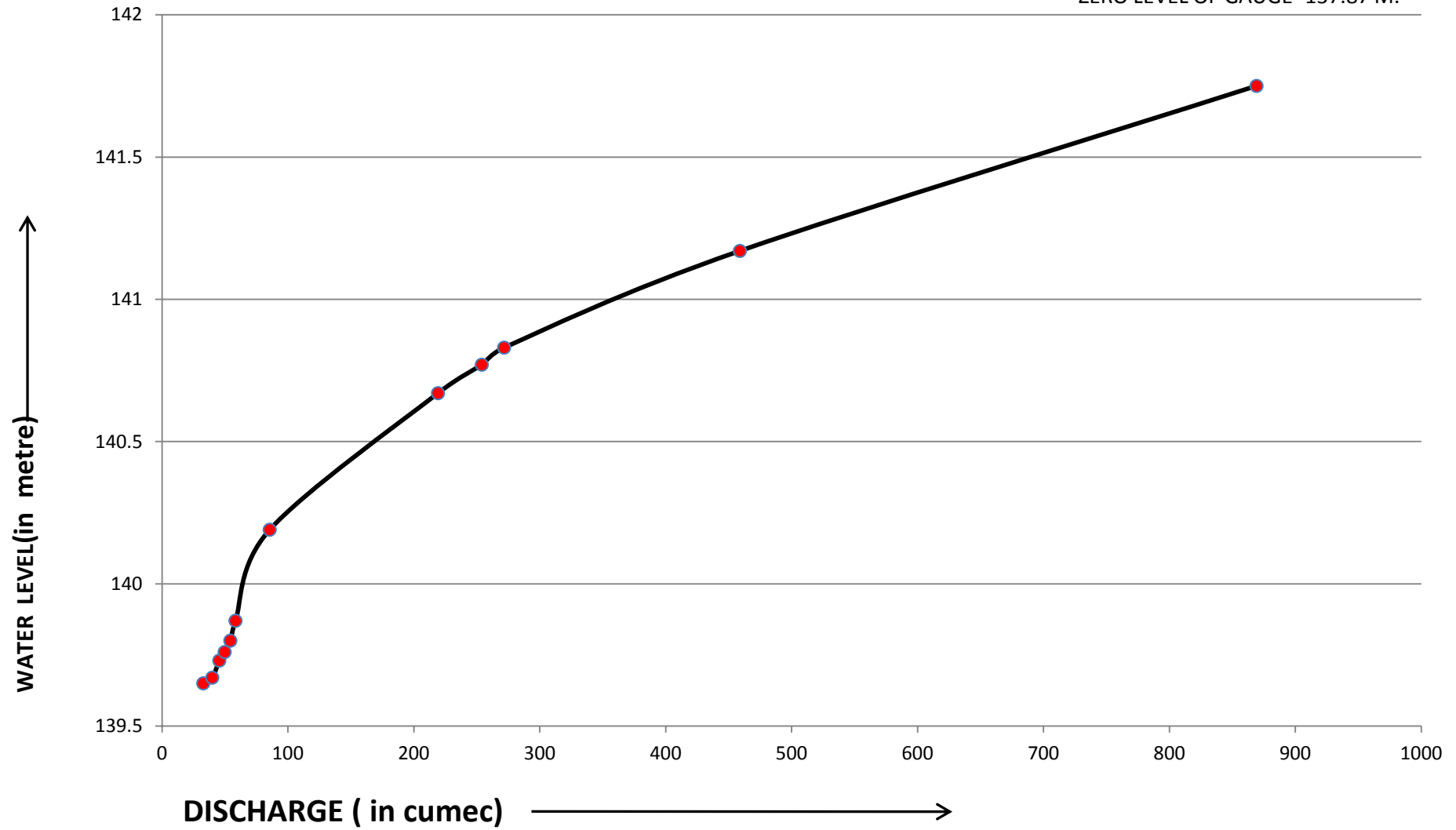
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

BASIN-AJAY
RIVER-AJAY
SITE-KUNDHIT-JAMTARA ROAD
ZERO LEVEL OF GAUGE -137.87 M.



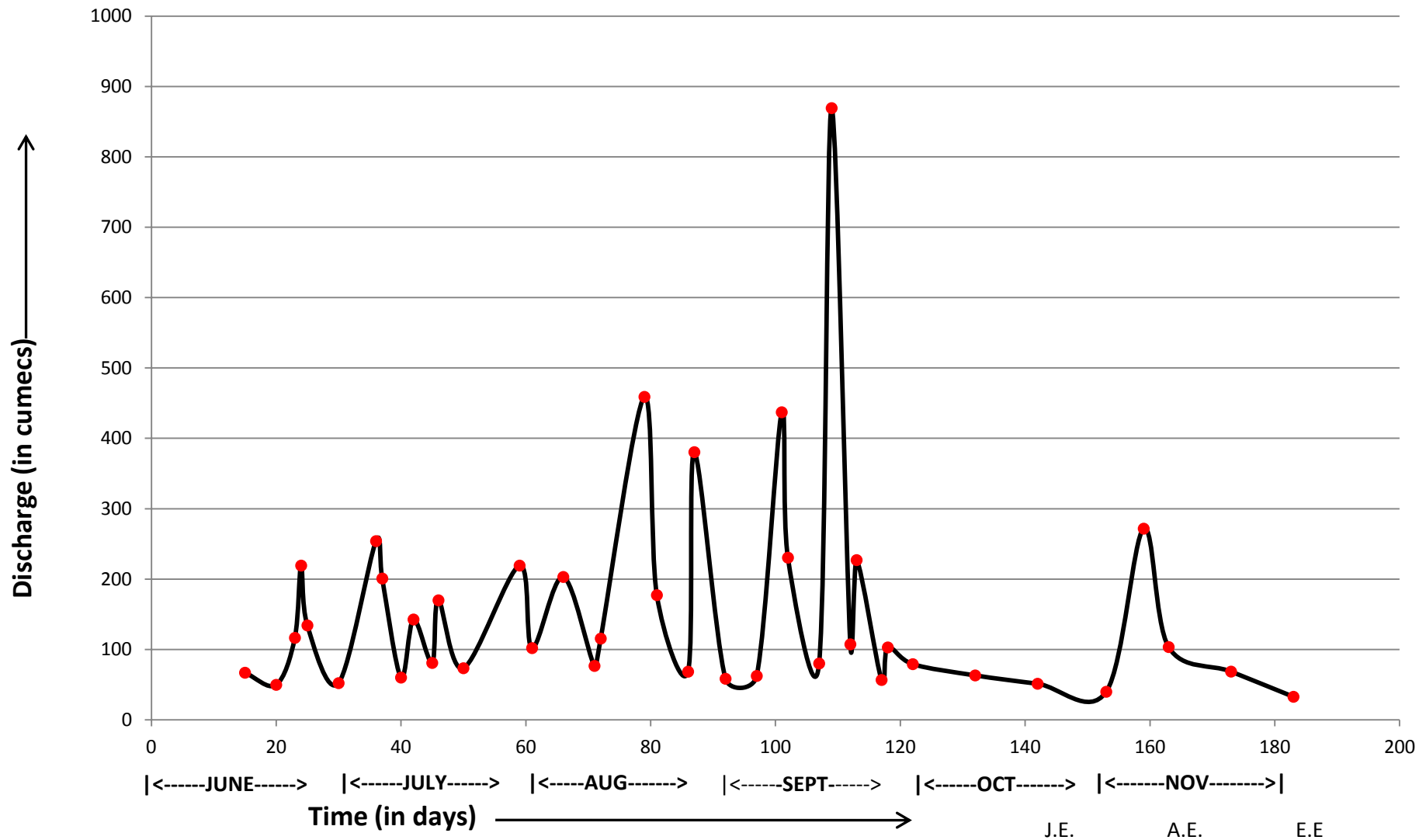
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-AJAY

RIVER-AJAY

SITE-KUNDHIT-JAMTARA ROAD



Cross Section of river at gauge Station

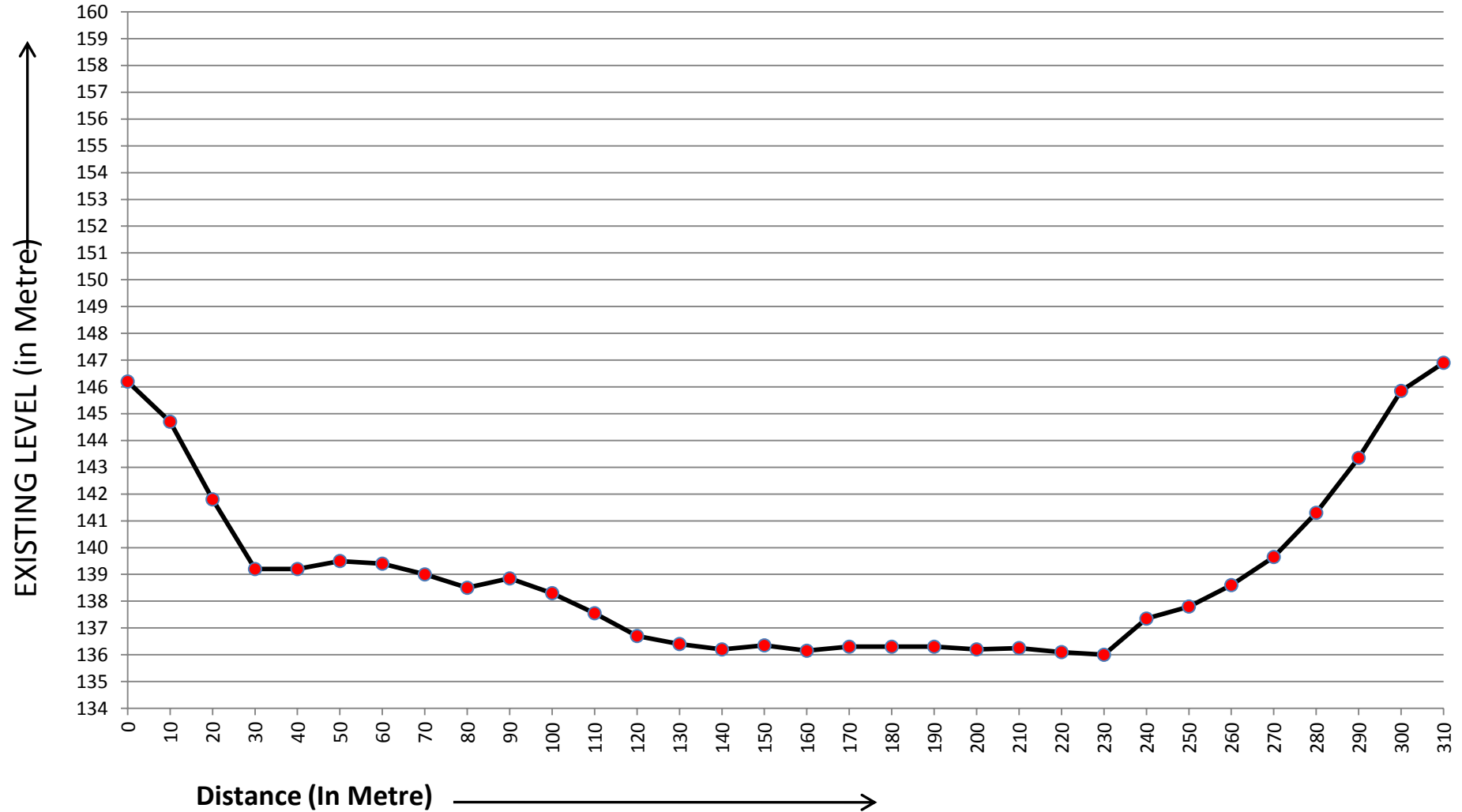
YEAR 2012-13

BASIN-AJAY

RIVER-AJAY

SITE-KUNDHIT-JAMTARA ROAD

ZERO LEVEL OF GAUGE -137.87 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Ajay
River- Patro
Site- Sarath Madhupur Road

Unit of Water Level(WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 195.70 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	196.12	6.42	196.08	5.36	196.36	31.76	196.30	21.88	196.08	5.13
2	0.00	0.00	196.14	7.15	196.14	8.05	196.30	21.88	196.28	19.37	196.06	4.46
3	0.00	0.00	196.16	8.08	196.20	10.62	196.32	24.55	196.22	12.33	196.06	4.46
4	0.00	0.00	196.26	14.55	196.14	8.05	196.38	36.11	196.12	7.10	196.08	5.13
5	0.00	0.00	196.32	19.07	196.18	10.08	196.36	31.76	196.14	8.05	196.00	2.47
6	0.00	0.00	196.20	10.62	196.14	8.05	196.30	21.88	196.24	15.42	196.06	4.46
7	0.00	0.00	196.18	10.08	196.18	10.08	196.24	15.42	196.20	10.62	196.00	2.47
8	0.00	0.00	196.12	7.10	196.24	15.42	196.30	21.88	196.14	8.05	195.98	2.25
9	0.00	0.00	196.12	7.10	196.18	10.08	196.36	31.76	196.20	10.62	196.02	3.12
10	0.00	0.00	196.12	7.10	196.16	9.21	196.36	31.76	196.18	10.28	196.00	2.47
11	0.00	0.00	196.12	7.10	196.20	10.62	196.30	21.88	196.12	7.10	195.94	1.78
12	0.00	0.00	196.16	9.21	196.26	16.77	196.34	27.90	196.14	8.05	195.98	2.25
13	0.00	0.00	196.14	8.05	196.18	10.08	196.36	31.76	196.16	9.21	195.96	2.04
14	0.00	0.00	196.10	6.21	196.12	7.10	196.30	21.88	196.20	10.62	195.94	1.78
15	196.50	9.71	196.20	10.99	196.14	8.05	196.32	24.55	196.14	8.05	195.96	2.04
16	195.88	1.00	196.18	10.08	196.20	10.62	196.30	21.88	196.12	7.10	196.02	3.12
17	196.50	9.71	196.20	10.62	196.24	15.42	196.24	15.42	196.10	6.21	196.00	2.47
18	196.30	6.47	196.22	12.33	196.24	15.42	196.26	17.23	196.14	8.05	195.94	1.78
19	196.50	9.71	196.24	15.42	196.34	27.90	196.30	21.88	196.20	10.62	195.96	2.04
20	196.50	9.71	196.18	10.08	196.38	36.11	196.36	31.76	196.18	10.28	195.98	2.25
21	196.50	9.71	196.20	10.62	196.36	31.76	196.34	27.90	196.12	7.10	195.96	2.04
22	195.88	1.00	196.16	9.21	196.34	27.90	196.28	19.37	196.14	8.05	195.96	2.04
23	195.90	1.19	196.16	9.21	196.40	38.22	196.22	13.72	196.20	10.62	195.98	2.25
24	195.96	1.66	196.10	6.21	196.38	36.11	196.24	15.42	196.18	10.28	195.96	2.04

25	196.00	2.04	196.14	8.05	196.34	27.90	196.26	17.23	196.16	9.21	195.98	2.25
26	195.98	2.02	196.10	6.21	196.34	27.90	196.26	17.43	196.22	13.72	195.98	2.25
27	196.04	3.38	196.10	6.21	196.38	36.11	196.28	19.37	196.16	9.21	195.96	2.04
28	196.10	5.58	196.16	9.21	196.36	31.76	196.34	27.90	196.14	8.05	195.94	1.78
29	196.16	8.08	196.20	10.62	196.36	31.76	196.32	24.55	196.20	10.62	195.96	2.04
30	196.18	8.87	196.16	9.21	196.38	36.11	196.28	19.37	196.16	9.21	195.94	1.78
31	-	-	196.10	6.21	196.38	36.11	-	-	196.10	6.21	-	-
ABSTRACT												
Max		9.71		19.07		38.22		36.11		21.88		5.13
Min		1.00		6.21		5.36		13.72		6.21		1.78

Overall Max. Discharge	38.22
Overall Min. Discharge	1.00

J.E.

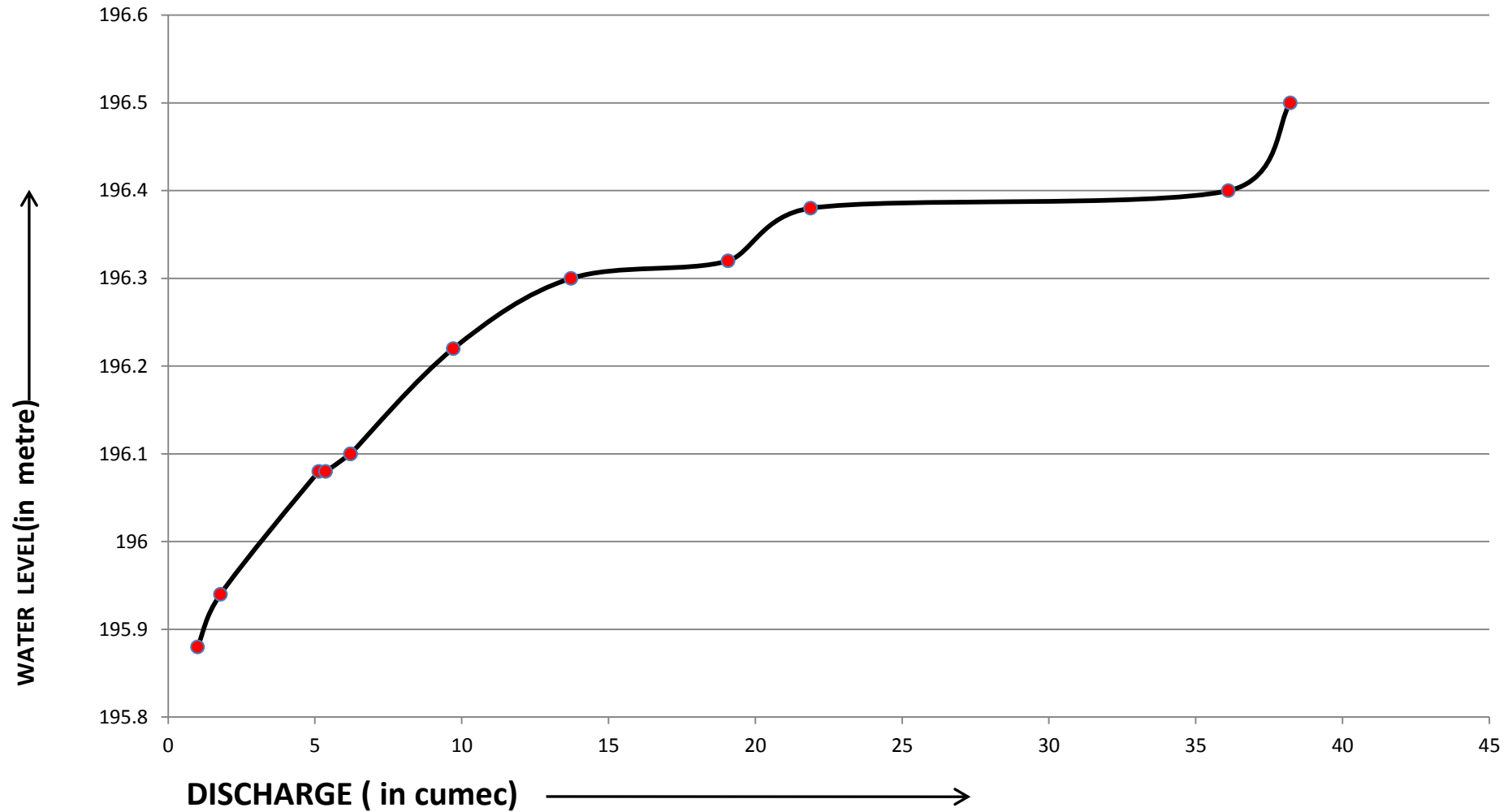
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STAGE GRAPH

YEAR 2012-13

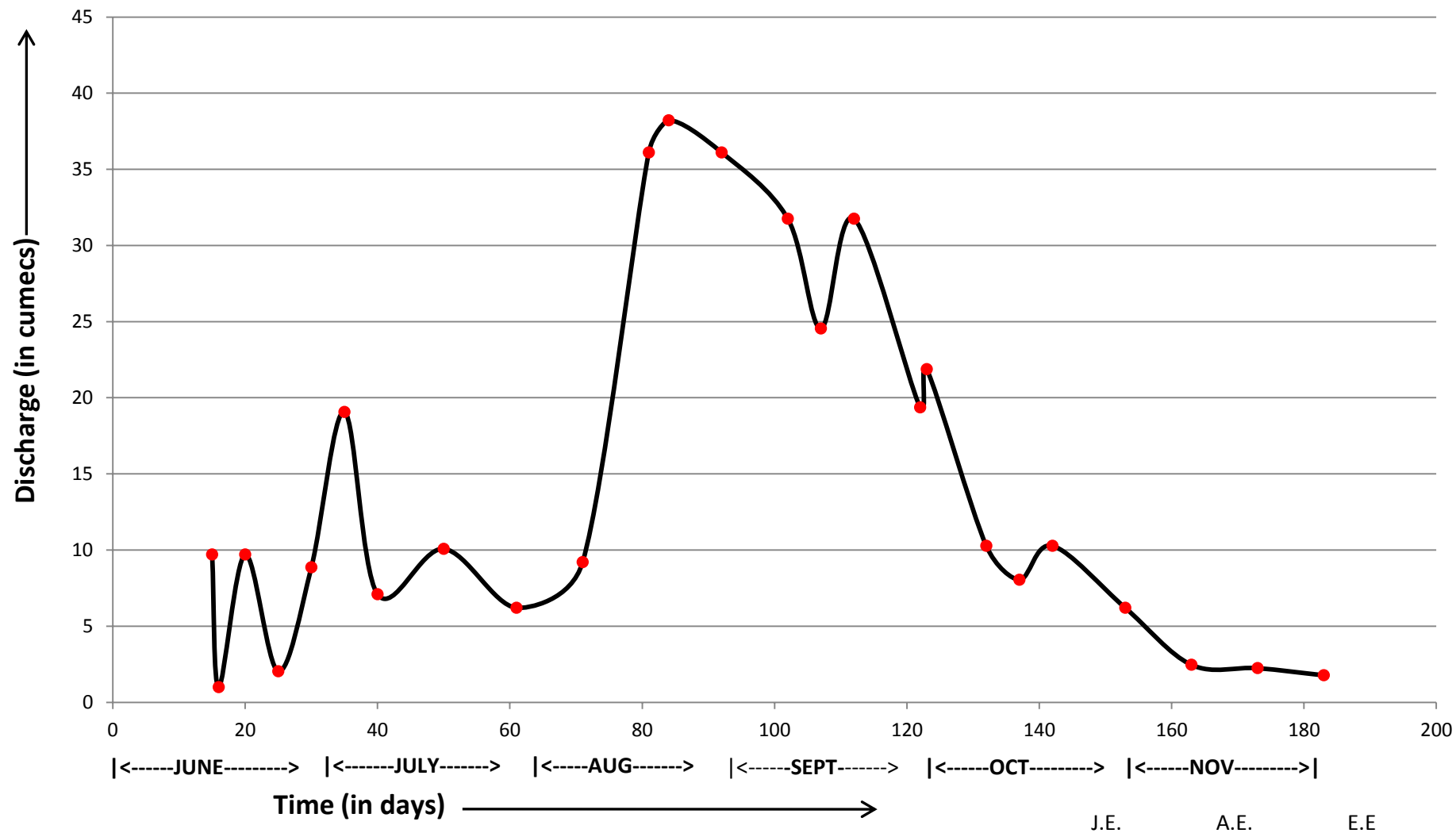
BASIN-AJAY
RIVER-PATRO
SITE-SARATH -MADHUPUR ROAD
ZERO LEVEL OF GAUGE -195.70M.



STORM HYDROGRAPH

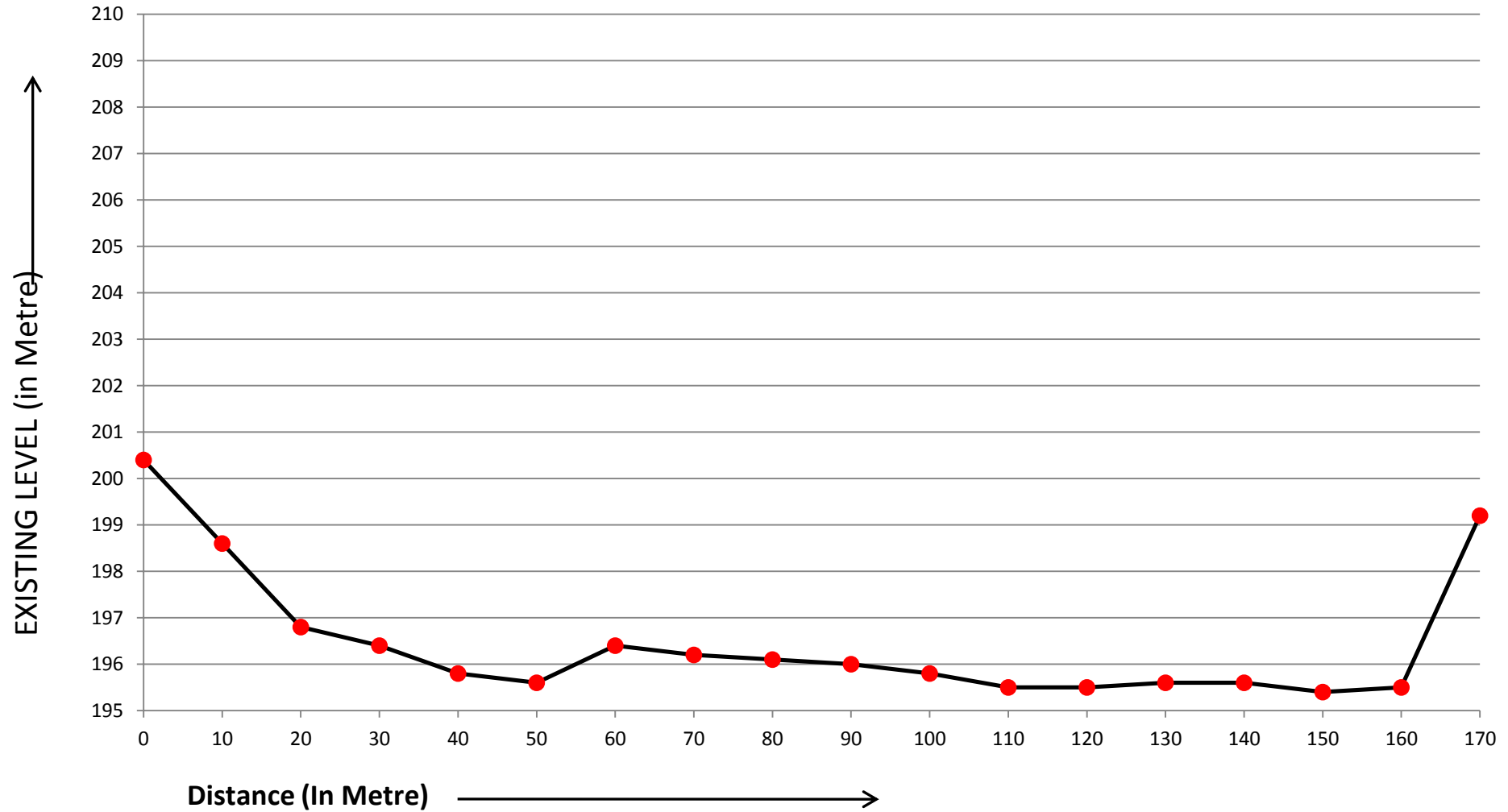
YEAR: 2012-13

*BASIN-AJAY
RIVER-PATRO
SITE-SARATH-MADHUPUR ROAD*



Cross Section of river at gauge station
YEAR 2012-13

BASIN-AJAY
RIVER-PATRO
SITE-SARATH -MADHUPUR ROAD
ZERO LEVEL OF GAUGE -195.70M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Ajay
River- Jayanti
Site- Dhakwa, Deoghar

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 190.20 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.000	190.52	6.01	190.46	3.17	190.42	1.82	190.60	7.48	190.36	0.94
2	0.00	0.000	190.52	4.83	190.46	3.17	190.44	2.65	190.62	8.10	190.36	0.91
3	0.00	0.000	190.56	7.59	190.46	3.17	190.50	4.13	190.62	8.33	190.34	0.86
4	0.00	0.000	190.54	7.03	190.42	2.06	190.56	7.96	190.80	16.25	190.36	0.91
5	0.00	0.000	190.58	10.95	190.44	2.80	190.60	9.08	190.60	7.48	190.36	0.91
6	0.00	0.000	190.56	10.45	190.46	3.17	190.60	8.96	190.50	3.77	190.38	1.16
7	0.00	0.000	190.58	11.05	190.42	2.06	190.62	8.56	190.40	1.25	190.38	1.16
8	0.00	0.000	190.56	9.48	190.40	1.29	190.62	8.79	190.40	1.25	190.38	1.16
9	0.00	0.000	190.56	10.05	190.40	1.25	190.90	50.56	190.40	1.25	190.36	0.94
10	0.00	0.000	190.52	7.62	190.52	5.42	190.76	15.31	190.40	1.25	190.34	0.85
11	0.00	0.000	190.64	9.96	190.60	7.69	190.62	8.10	190.38	1.16	190.36	0.94
12	0.00	0.000	190.66	10.65	190.60	7.69	190.62	8.33	190.38	1.16	190.36	0.88
13	0.00	0.000	190.74	12.75	190.60	7.48	190.64	8.97	190.40	1.25	190.34	0.82
14	0.00	0.000	190.76	13.02	190.62	9.49	190.70	12.25	190.40	1.25	190.34	0.82
15	190.30	0.43	190.82	20.19	190.64	10.71	190.70	12.25	190.40	1.25	190.36	0.91
16	190.30	0.42	190.84	25.37	190.62	8.33	190.74	15.16	190.38	1.16	190.36	0.91
17	190.32	0.67	190.82	25.24	191.60	17.09	190.78	17.32	190.38	1.16	190.38	1.16
18	190.52	5.28	190.78	23.48	190.80	16.25	190.75	16.02	190.40	1.25	190.38	1.16
19	190.54	6.69	190.78	21.94	190.58	8.04	190.80	17.83	190.40	1.25	190.38	1.16
20	190.40	1.33	190.76	21.66	190.62	7.48	190.84	21.36	190.38	1.16	190.38	1.16
21	190.42	1.94	190.54	6.18	190.64	8.72	190.70	12.25	190.38	1.16	190.36	0.94
22	190.44	2.72	190.56	6.43	190.64	8.72	190.60	7.69	190.38	1.16	190.36	0.94
23	190.46	3.17	190.52	5.28	190.62	8.10	190.50	3.77	190.38	1.16	190.34	0.86
24	190.46	3.17	190.50	4.38	190.60	7.26	190.50	3.77	190.38	1.16	190.34	0.86

25	190.42	2.06	190.48	3.98	190.52	5.72	190.48	3.42	190.36	0.94	190.34	0.86
26	190.46	3.17	190.46	3.35	190.50	4.01	190.46	2.81	190.36	0.94	190.34	0.86
27	190.48	4.31	190.46	2.99	190.50	3.77	190.46	2.81	190.38	1.16	190.34	0.86
28	190.46	3.17	190.48	3.64	190.52	4.54	190.46	2.81	190.38	1.16	190.32	0.65
29	190.46	3.63	190.44	2.72	190.46	2.81	190.40	1.45	190.38	1.16	190.30	0.42
30	190.46	3.54	190.46	2.88	190.46	2.81	190.40	1.37	190.38	1.16	190.30	0.42
31	0.00	0.00	190.46	3.17	190.44	2.48	-	-	190.36	0.94	-	-
ABSTRACT												
Max		6.69		25.37		17.09		50.56		16.25		1.16
Min		0.42		2.72		1.25		1.37		0.94		0.42

Overall Max. Discharge	50.56
Overall Min. Discharge	0.42

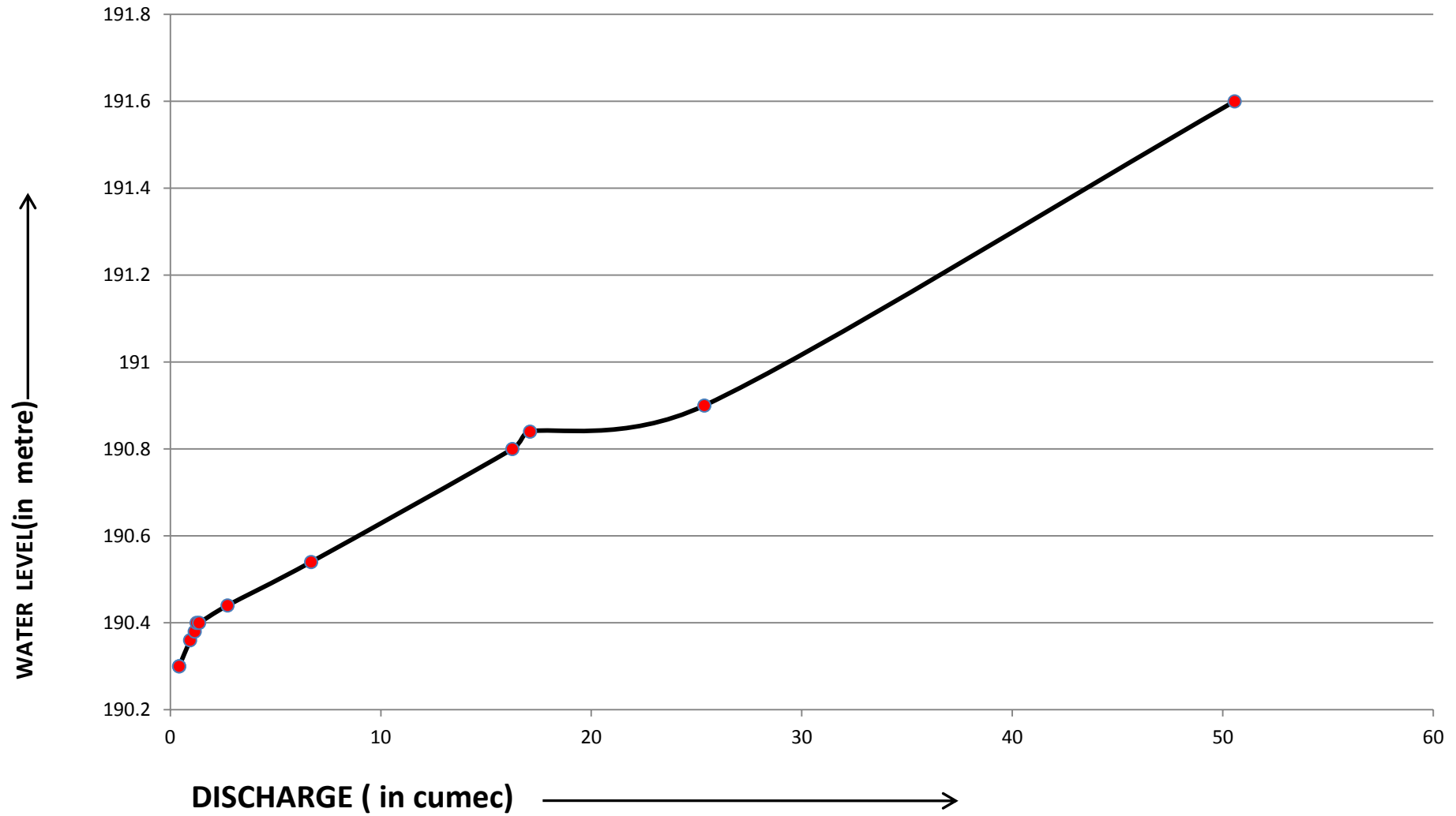
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STAGE GRAPH
YEAR 2012-13

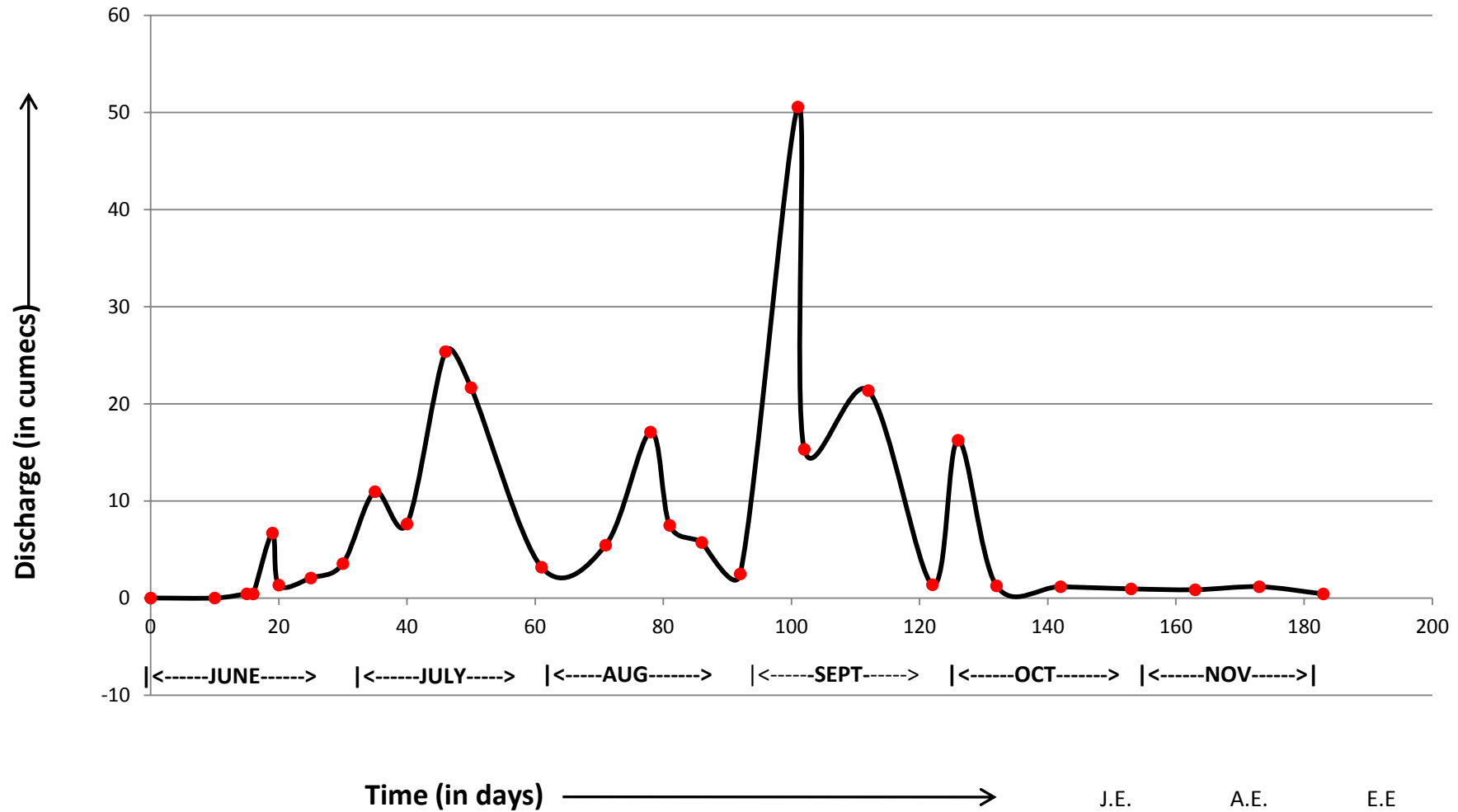
BASIN-AJAY
RIVER-JAYANTI
SITE-DHAKWA, DEOGHAR
ZERO LEVEL OF GAUGE-190.20 M.



STORM HYDROGRAPH

YEAR: 2012-13

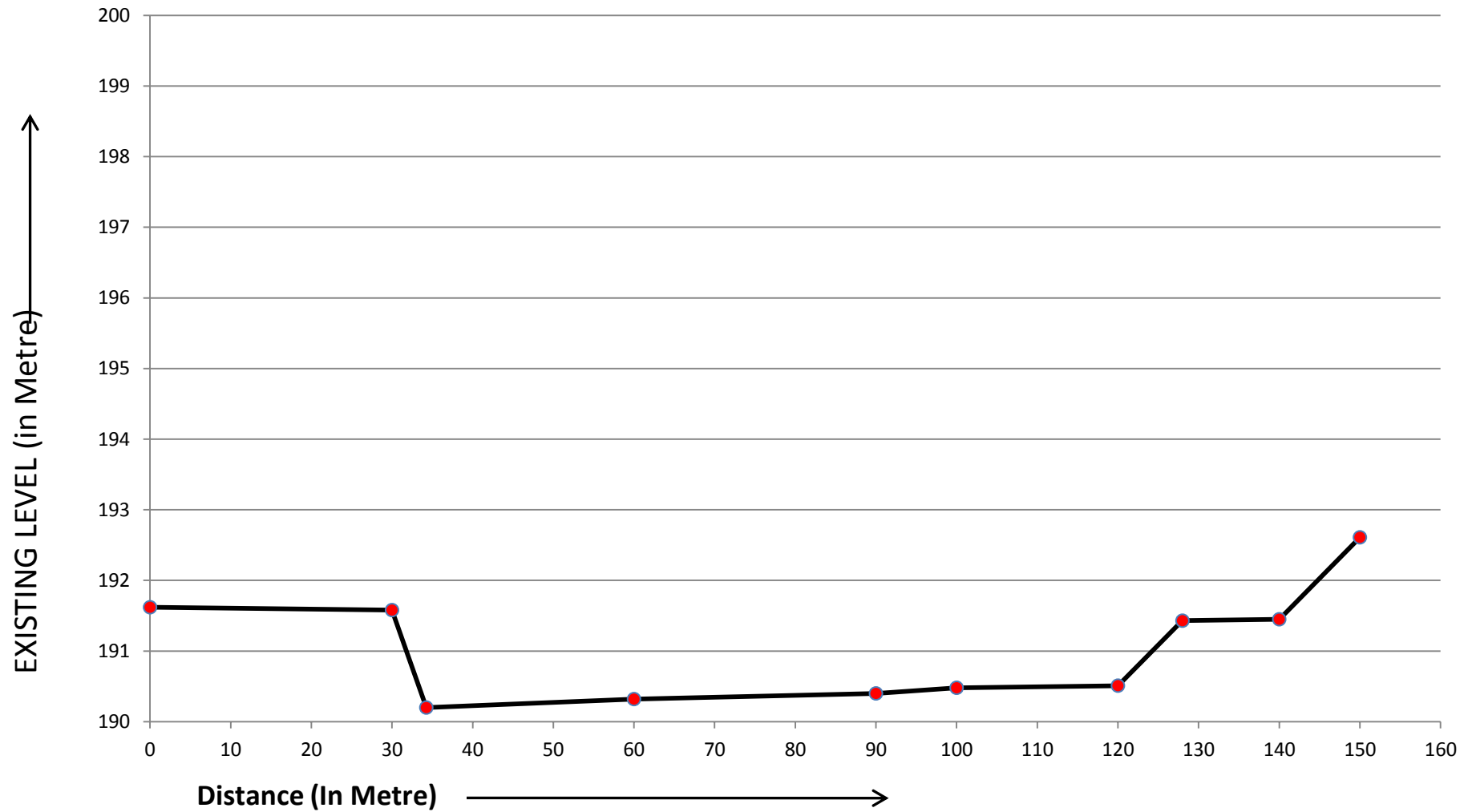
*BASIN-AJAY
RIVER-JAYANTI
SITE-DHAKWA, DEOGHAR*



Cross Section of river at gauge station

YEAR 2012-13

BASIN-AJAY
RIVER-JAYANTI
SITE-DHAKWA, DEOGHAR
ZERO LEVEL OF GAUGE-190.20 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Ajay
River- Patro
Site- Budhai

Unit of Water Level(WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 234.75 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	235.13	15.66	234.95	4.27	234.95	4.27	234.91	2.57	234.93	3.21
2	0.00	0.00	235.11	14.34	234.95	4.27	234.93	3.31	234.91	2.52	234.93	3.25
3	0.00	0.00	235.09	12.74	235.15	19.06	234.91	2.52	234.89	1.97	234.93	3.25
4	0.00	0.00	235.25	31.62	235.15	19.06	234.89	2.01	235.35	48.75	235.15	19.06
5	0.00	0.00	235.45	73.54	235.05	10.77	234.87	1.68	235.15	19.06	235.25	30.23
6	0.00	0.00	235.71	152.83	235.05	10.77	234.95	4.27	235.05	10.47	235.25	30.23
7	0.00	0.00	234.97	5.58	234.95	4.27	235.15	19.06	235.01	7.97	235.05	10.77
8	0.00	0.00	234.87	1.71	234.85	1.44	235.05	10.18	234.95	4.27	235.05	10.77
9	0.00	0.00	235.05	10.77	234.85	1.47	235.65	130.99	235.01	8.20	235.05	10.77
10	0.00	0.00	234.95	4.05	234.95	4.27	235.05	10.77	234.97	5.23	235.05	10.77
11	0.00	0.00	234.95	4.05	234.85	1.47	235.05	10.77	234.97	5.06	235.05	10.77
12	0.00	0.00	235.05	12.83	234.95	4.27	234.95	4.27	234.97	5.06	235.05	10.77
13	0.00	0.00	234.95	4.05	234.95	4.27	235.05	10.77	234.95	4.27	234.95	4.27
14	0.00	0.00	235.95	297.59	234.95	4.27	235.65	130.99	234.95	4.27	234.95	4.27
15	234.77	0.47	235.55	123.98	235.05	10.77	235.15	19.06	234.95	4.27	234.95	4.27
16	234.77	0.49	235.05	10.77	234.95	4.27	235.05	10.77	234.95	4.27	234.95	4.27
17	234.79	0.72	235.15	19.06	236.15	360.57	235.25	30.23	234.95	4.27	234.95	4.27
18	234.79	0.72	235.05	10.77	235.15	19.06	235.05	10.77	234.93	3.31	234.95	4.27
19	234.79	0.72	234.85	1.39	234.85	1.47	235.05	10.77	234.95	4.27	234.95	4.27
20	234.81	0.99	235.15	19.06	235.35	48.75	235.15	19.06	234.95	4.27	234.95	4.27
21	234.81	0.99	234.95	4.27	234.95	4.27	235.25	30.23	234.95	4.27	234.95	4.27
22	234.83	1.33	234.95	4.27	235.05	10.77	235.15	19.06	234.93	3.31	234.95	4.27
23	234.83	1.33	234.85	1.47	235.05	10.77	235.15	19.06	234.93	3.25	234.95	4.27
24	234.85	1.47	234.85	1.47	234.95	4.13	235.05	10.77	234.93	3.31	234.85	1.44

25	235.49	85.18	234.85	1.47	235.05	10.77	235.05	10.77	234.91	2.52	234.85	1.44
26	235.71	145.31	235.05	10.77	234.95	4.27	234.95	4.27	234.91	2.52	234.85	1.44
27	235.53	90.25	234.87	1.71	234.95	4.13	234.95	4.27	234.91	2.52	234.85	1.41
28	235.35	50.82	235.05	10.77	234.95	4.27	234.95	4.27	234.89	2.01	234.85	1.41
29	235.35	52.90	234.95	4.27	234.91	2.57	234.95	4.27	234.89	2.01	234.85	1.41
30	235.05	12.09	234.85	1.47	234.89	2.01	234.85	1.47	234.89	2.01	234.85	1.41
31	-	-	234.95	4.27	234.89	1.97	-	-	234.95	4.27	-	-
ABSTRACT												
Max		145.31		297.59		360.57		130.99		48.75		30.23
Min		0.47		1.39		1.44		1.47		1.97		1.41

Overall Max. Discharge	360.57
Overall Min. Discharge	0.47

J.E.

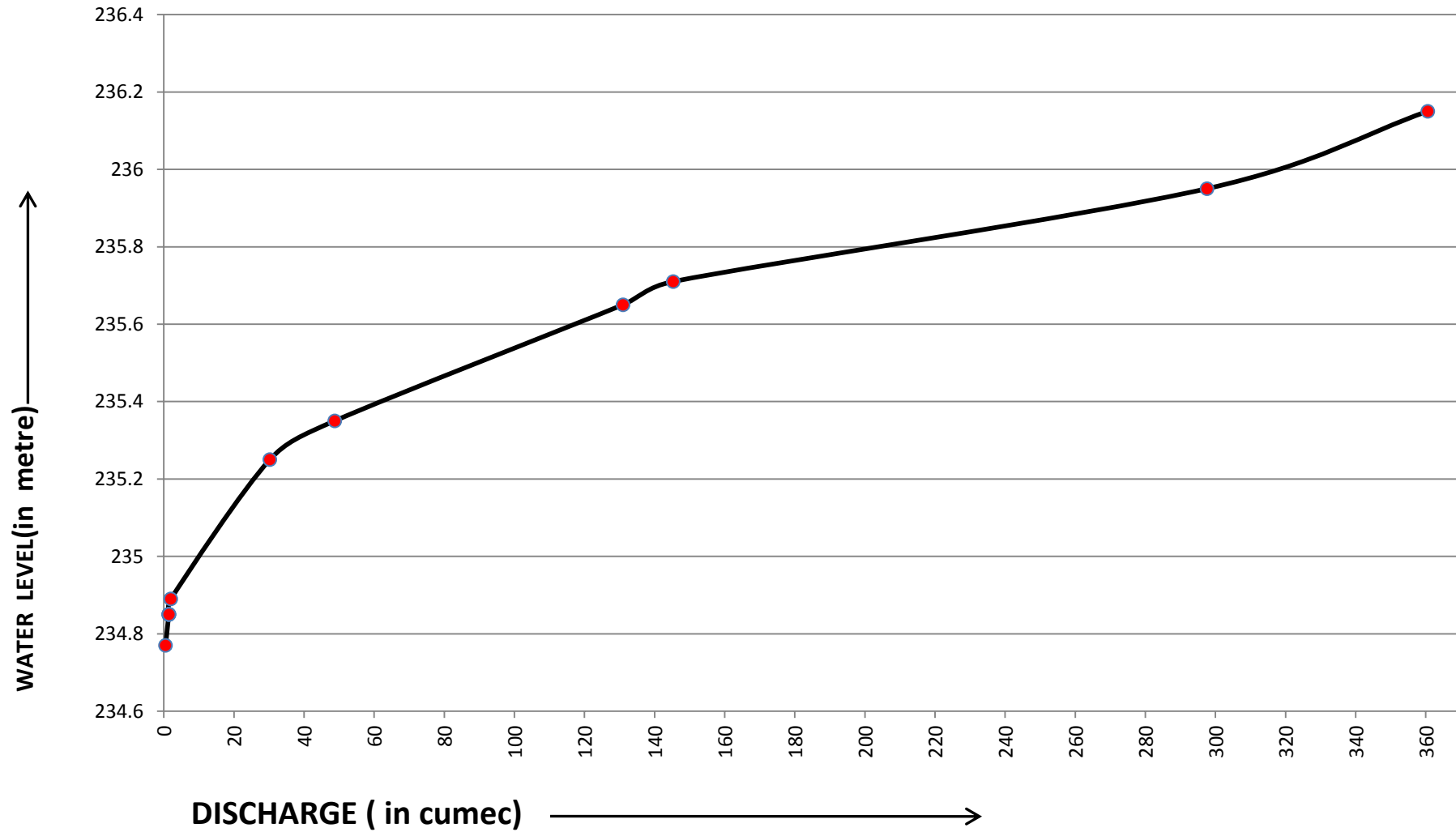
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E.E.

STAGE GRAPH

YEAR 2012-13

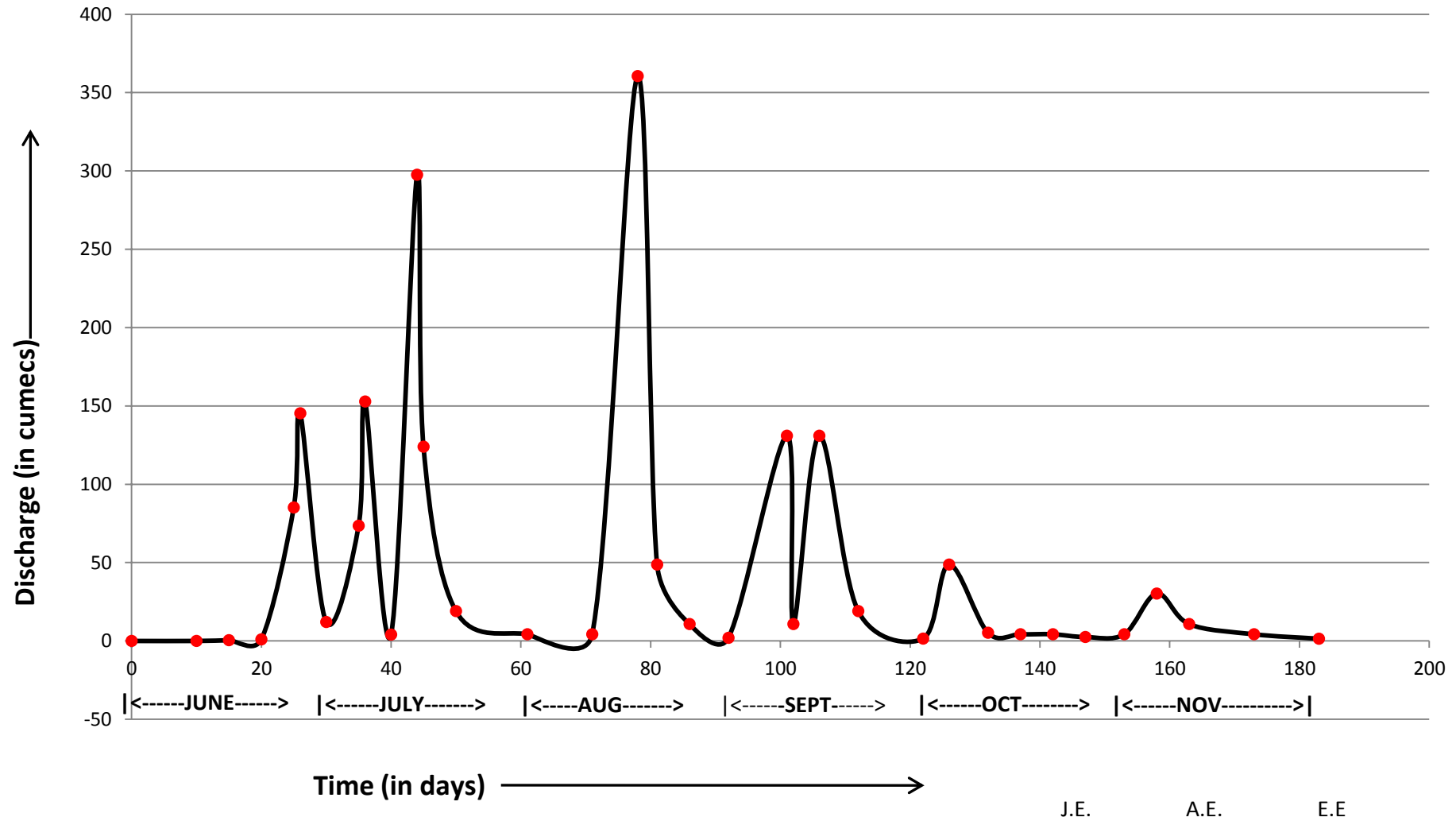
BASIN-AJAY
RIVER-PATRO
SITE-BUDHAI
ZERO LEVEL OF GAUGE -234.75 M.



STORM HYDROGRAPH

YEAR: 2012-13

*BASIN-AJAY
RIVER-PATRO
SITE- BUDHAI*



Cross Section of river at gauge station

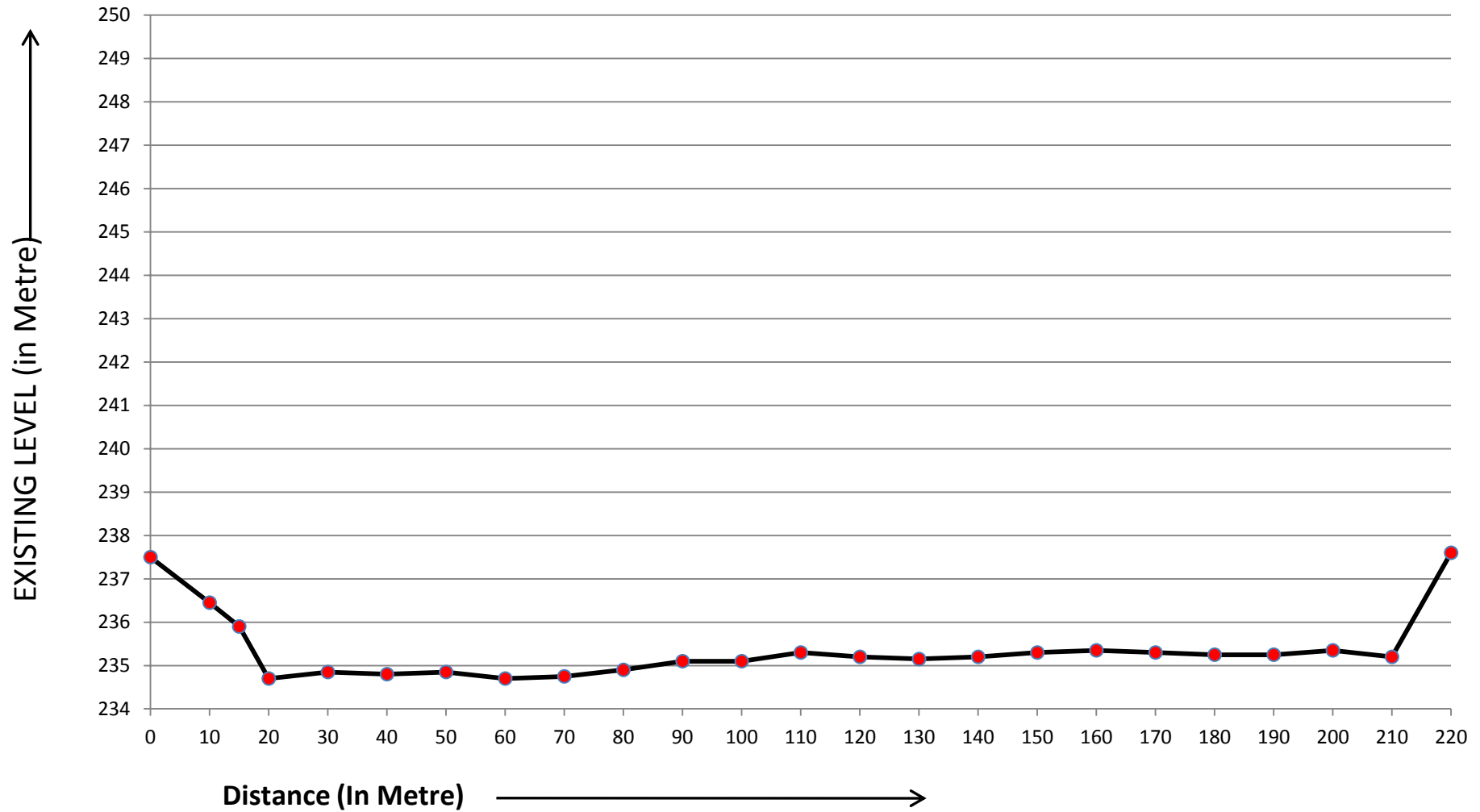
YEAR 2012-13

BASIN-AJAY

RIVER-PATRO

SITE-BUDHAI

ZERO LEVEL OF GAUGE -234.75 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Ajay
River- Ajay
Site- Punasi, Deoghar

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 240.96 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Dis..	W.L.	Dis..	W.L.	Dis..	W.L.	Dis..	W.L.	Dis..	W.L.	Dis..
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.000	241.40	8.09	241.84	46.43	241.82	46.20	241.72	37.24	241.72	37.03
2	0.00	0.000	241.76	60.60	241.80	40.85	241.88	71.55	241.72	37.24	241.72	37.23
3	0.00	0.000	241.74	67.03	241.78	39.50	241.92	69.14	241.72	37.24	241.84	63.07
4	0.00	0.000	241.68	53.86	241.76	36.15	241.92	69.14	241.72	37.24	241.96	98.43
5	0.00	0.000	241.62	36.48	241.76	36.15	241.92	69.14	241.72	37.24	241.96	98.43
6	0.00	0.000	241.58	31.98	241.78	39.47	241.94	75.35	241.72	37.24	241.96	92.82
7	0.00	0.000	241.54	28.56	241.80	42.45	241.90	66.53	241.72	37.24	241.88	71.55
8	0.00	0.000	241.54	24.30	241.82	52.08	241.94	73.16	241.72	37.24	241.84	58.69
9	0.00	0.000	241.50	17.29	241.82	53.76	241.94	73.16	241.72	37.24	241.84	58.69
10	0.00	0.000	241.50	16.77	241.96	71.80	241.94	73.16	241.68	33.23	241.78	49.54
11	0.00	0.000	241.48	14.40	242.10	101.50	241.94	73.16	241.68	22.35	241.78	49.54
12	0.00	0.000	241.48	14.40	242.16	149.60	241.84	56.06	241.68	22.35	241.74	41.04
13	0.00	0.000	241.46	13.95	242.04	117.81	241.84	56.04	241.68	22.35	241.84	41.04
14	0.00	0.000	241.44	9.38	241.98	97.68	241.84	56.04	241.68	22.35	241.74	41.04
15	0.00	0.000	241.44	9.22	241.94	81.90	241.80	51.26	241.68	22.35	241.74	41.04
16	0.00	0.000	241.48	14.40	241.92	72.24	241.80	51.26	241.68	22.35	241.68	41.04
17	0.00	0.000	241.44	10.65	241.98	81.81	241.80	51.26	241.64	27.56	241.68	41.04
18	0.00	0.000	242.16	139.74	241.90	66.53	241.78	46.44	241.64	27.56	241.68	41.04
19	0.00	0.000	242.20	161.89	241.90	66.53	241.78	46.44	241.64	27.56	241.68	41.04
20	0.00	0.000	242.24	179.63	241.94	77.53	241.78	46.44	241.64	27.56	241.64	29.06
21	241.48	14.40	242.16	149.60	241.88	61.03	241..76	43.38	241.64	27.56	241.60	23.26
22	241.44	10.65	242.08	125.20	241.86	54.90	241.76	43.38	241.64	27.56	241.60	23.26
23	241.52	19.50	242.04	103.95	241.84	50.81	241.76	43.38	241.64	27.56	241.60	23.26
24	241.48	14.62	241.98	81.81	241.82	48.72	241.76	43.38	241.64	27.56	241.60	23.26

25	241.40	7.30	241.96	79.90	241.80	44.05	241.76	43.38	241.64	27.56	241.60	23.26
26	241.44	9.85	241.98	86.69	241.80	44.05	241.76	43.38	241.64	27.56	241.60	23.26
27	241.44	10.65	241.96	77.59	241.78	43.68	241.76	43.38	241.64	27.56	241.60	23.26
28	241.48	15.97	241.94	69.89	241.76	37.60	241.76	43.38	241.64	27.56	241.60	23.26
29	241.48	16.87	241.90	63.55	241.76	37.60	241.76	43.38	241.64	27.56	241.60	23.26
30	241.44	12.72	241.88	49.76	241.88	40.85	241.76	43.38	241.72	37.23	241.60	23.26
31			241.88	48.91	241.78	38.70			241.72	37.23		
ABSTRACT												
Max		19.50		179.63		149.60		73.16		37.24		98.43
Min		7.30		9.22		36.15		43.38		22.35		23.26

Overall Max. Discharge	179.63
Overall Min. Discharge	7.30

J.E.

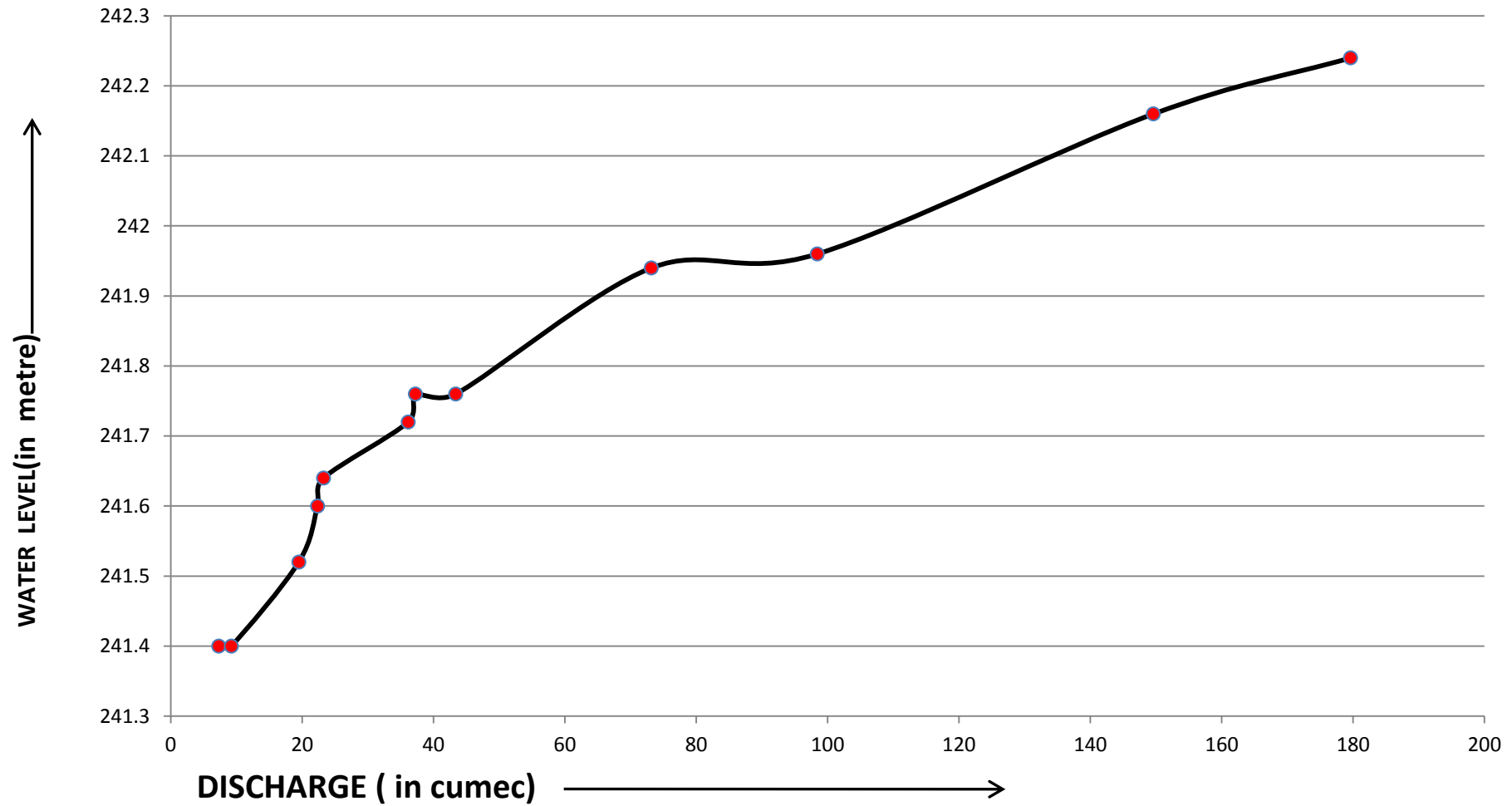
A.E.

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STAGE GRAPH

YEAR 2012-13

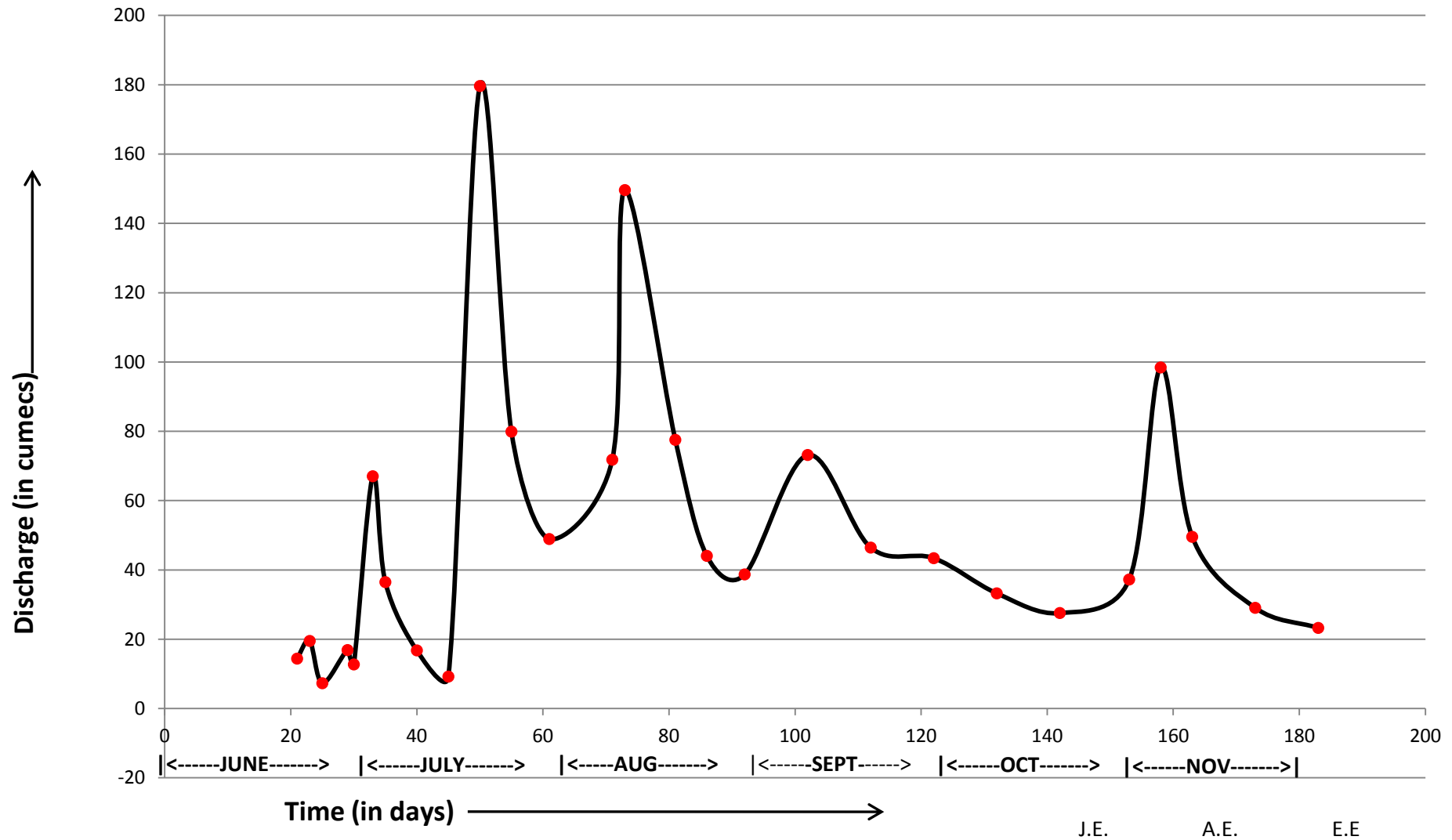
BASIN-AJAY
RIVER-AJAY
SITE-PUNASI, DEOGHAR
ZERO LEVEL OF GAUGE-240.96 M.



STORM HYDROGRAPH

YEAR: 2012-13

*BASIN-AJAY
RIVER-AJAY
SITE-PUNASI, DEOGHAR*



Cross Section of river at gauge station

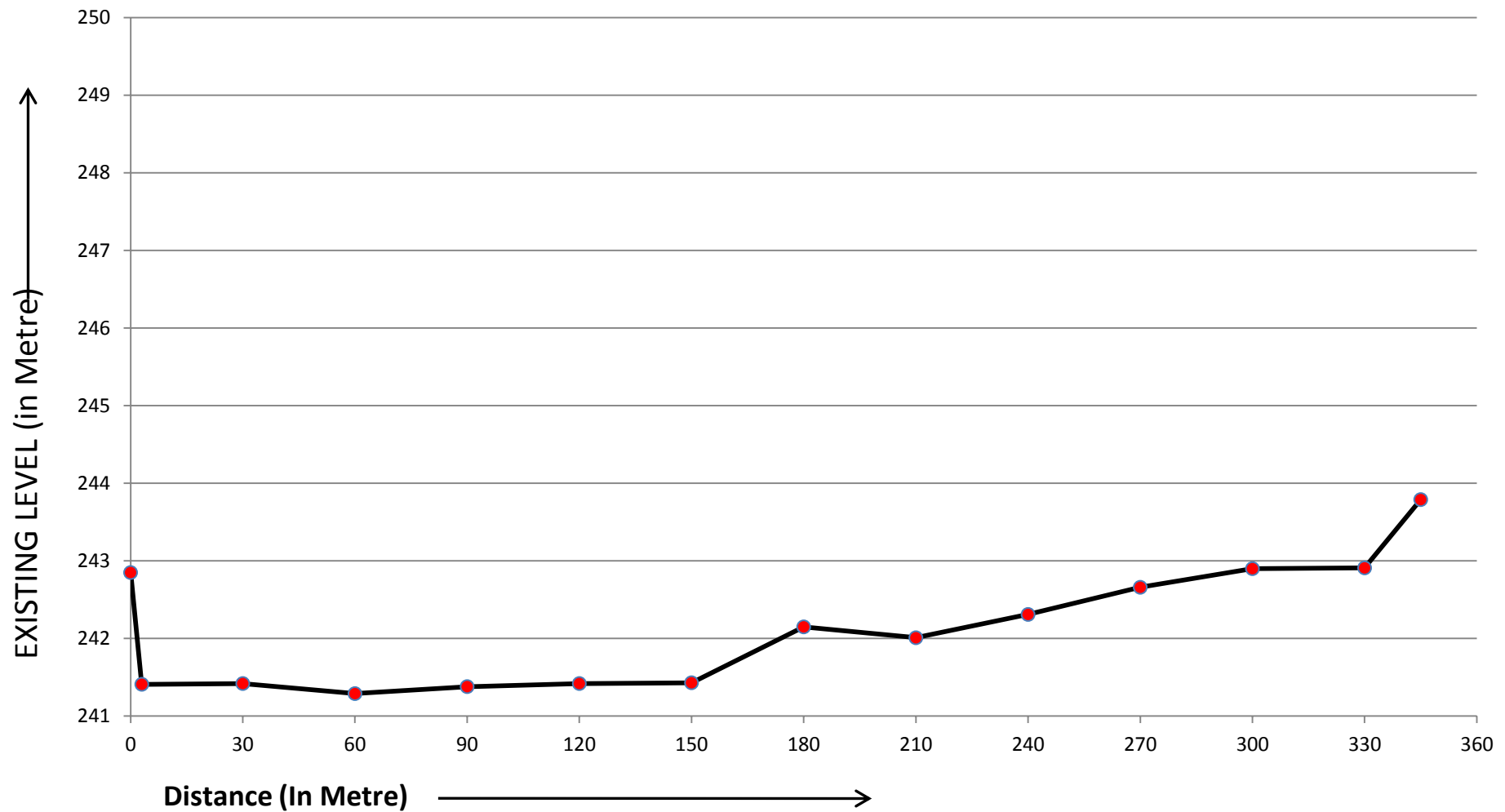
YEAR 2012-13

BASIN-AJAY

RIVER-AJAY

SITE-PUNASI, DEOGHAR

ZERO LEVEL OF GAUGE-240.96 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin - Gumani
River- Gumani
Site- Barhet Barharwa path

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 89.18 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	89.44	1.25	90.22	27.73	89.50	2.18	89.72	6.25	89.92	1.89
2	0.00	0.00	89.38	0.66	90.12	22.69	89.50	2.18	89.70	5.70	89.90	10.15
3	0.00	0.00	89.38	0.66	90.04	17.86	89.50	2.18	89.70	5.70	89.90	10.15
4	0.00	0.00	89.36	0.54	90.10	21.99	89.48	1.76	89.70	5.70	89.88	9.69
5	0.00	0.00	89.34	0.44	90.34	37.88	89.48	1.76	89.68	4.95	89.88	9.69
6	0.00	0.00	89.40	0.86	90.50	47.22	89.48	1.76	89.66	4.59	89.88	9.69
7	0.00	0.00	89.50	3.43	90.70	59.40	89.46	1.48	89.66	4.59	89.86	9.26
8	0.00	0.00	89.46	2.46	90.78	67.34	89.46	1.48	89.72	6.25	89.86	9.26
9	0.00	0.00	89.44	1.34	90.88	89.62	89.46	1.48	89.80	7.47	89.86	9.26
10	0.00	0.00	89.74	9.98	90.82	73.67	89.46	1.48	89.86	8.06	90.44	30.23
11	0.00	0.00	89.92	14.25	90.56	52.43	89.46	1.48	89.88	8.44	90.54	38.04
12	0.00	0.00	90.02	15.61	90.46	43.17	89.88	12.50	90.30	25.75	90.52	34.95
13	0.00	0.00	90.18	30.97	90.22	30.49	90.44	31.53	90.48	38.14	90.44	30.10
14	0.00	0.00	90.20	32.40	90.10	21.99	90.60	39.05	90.44	34.40	90.36	27.12
15	89.34	0.44	90.08	17.69	90.04	17.86	90.76	47.21	90.38	30.20	90.30	23.91
16	89.34	0.44	90.02	15.61	89.90	13.15	90.90	54.57	90.30	25.75	90.18	19.97
17	89.34	0.44	89.98	13.77	89.84	10.83	91.04	62.60	90.24	22.77	90.06	16.25
18	89.32	0.33	89.96	12.53	89.82	9.77	91.16	68.20	90.18	20.47	90.02	15.20
19	89.32	0.33	89.96	12.53	89.82	9.77	91.38	87.25	90.16	19.91	90.00	13.49
20	89.32	0.33	89.94	11.70	89.80	9.27	91.42	95.69	90.14	19.24	90.00	13.49
21	89.60	3.36	90.00	14.28	89.78	8.78	91.34	82.46	90.14	19.24	89.96	12.16
22	89.78	7.64	90.30	28.81	89.76	8.29	91.26	73.29	90.12	17.36	89.94	11.70
23	89.72	6.37	90.48	35.84	89.72	7.12	91.18	64.65	90.10	16.85	89.92	10.89
24	89.66	5.57	90.60	43.21	89.70	6.46	90.98	54.58	90.08	15.88	89.88	9.69

25	89.64	5.43	90.78	97.60	89.70	6.46	90.78	40.99	90.06	14.49	89.86	9.26
26	89.62	4.91	90.58	52.61	89.66	5.41	90.56	31.45	90.06	14.49	89.82	8.41
27	89.60	4.36	90.30	34.94	89.64	4.67	90.30	22.07	90.04	13.18	89.70	7.07
28	89.56	3.09	90.24	30.74	89.62	4.13	90.10	21.99	90.02	12.74	89.70	5.51
29	89.54	2.68	90.52	48.15	89.60	3.74	89.90	13.15	90.00	11.90	89.62	3.99
30	89.50	2.00	90.44	46.59	89.56	3.10	89.76	8.29	89.96	10.69	89.56	2.89
31			90.30	33.10	89.52	2.38			89.94	10.28		
ABSTRACT												
Max		7.64		97.60		89.62		95.69		38.14		38.04
Min		0.33		0.44		2.38		1.48		4.59		1.89

Overall Max. Discharge	97.60
Overall Min. Discharge	0.33

J.E.

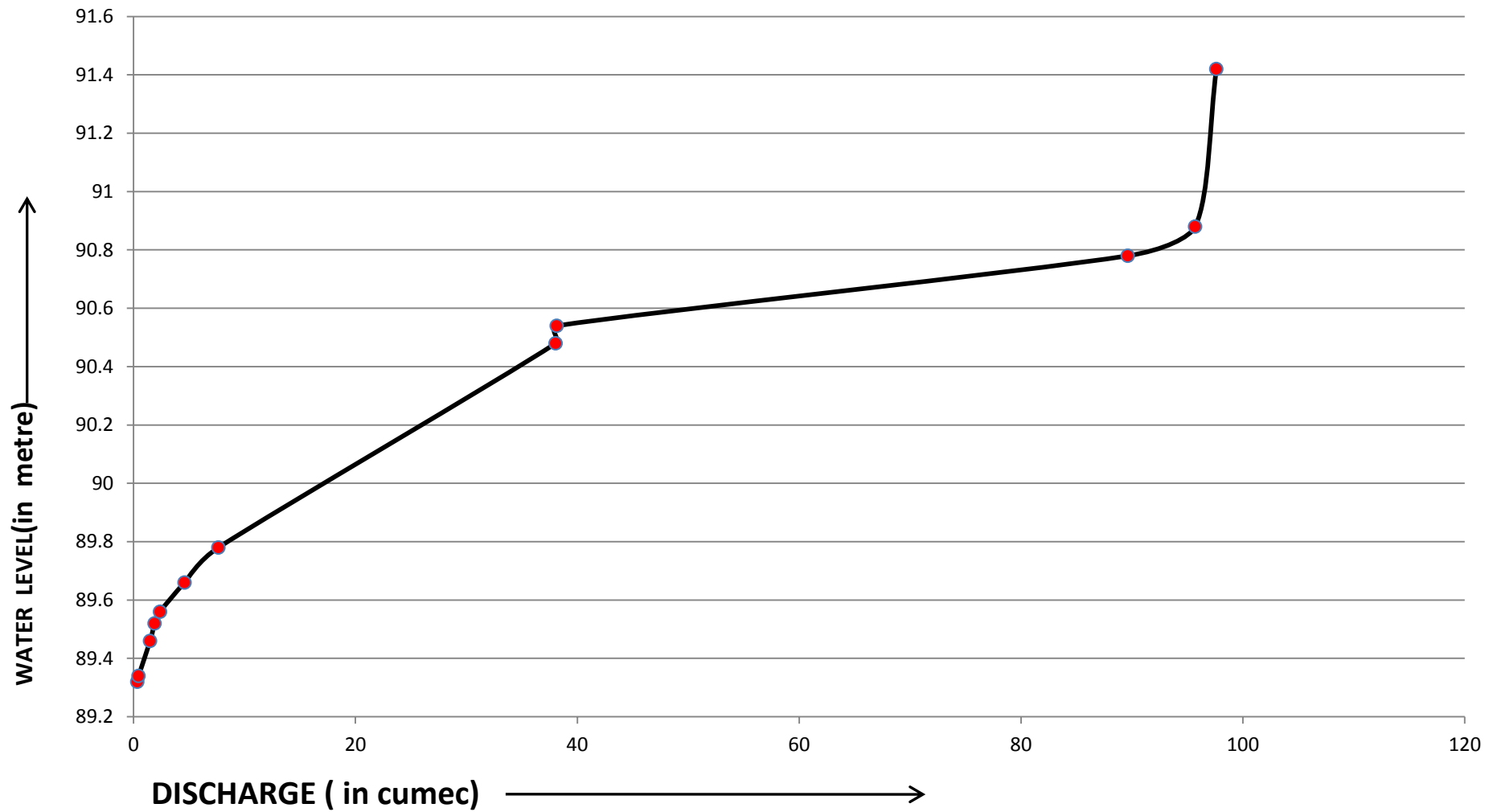
A.E.

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STAGE GRAPH

YEAR 2012-13

BASIN-GUMANI
RIVER-GUMANI
SITE-BARHET-BARHARWA PATH
ZERO LEVEL OF GAUGE-89.18 M.



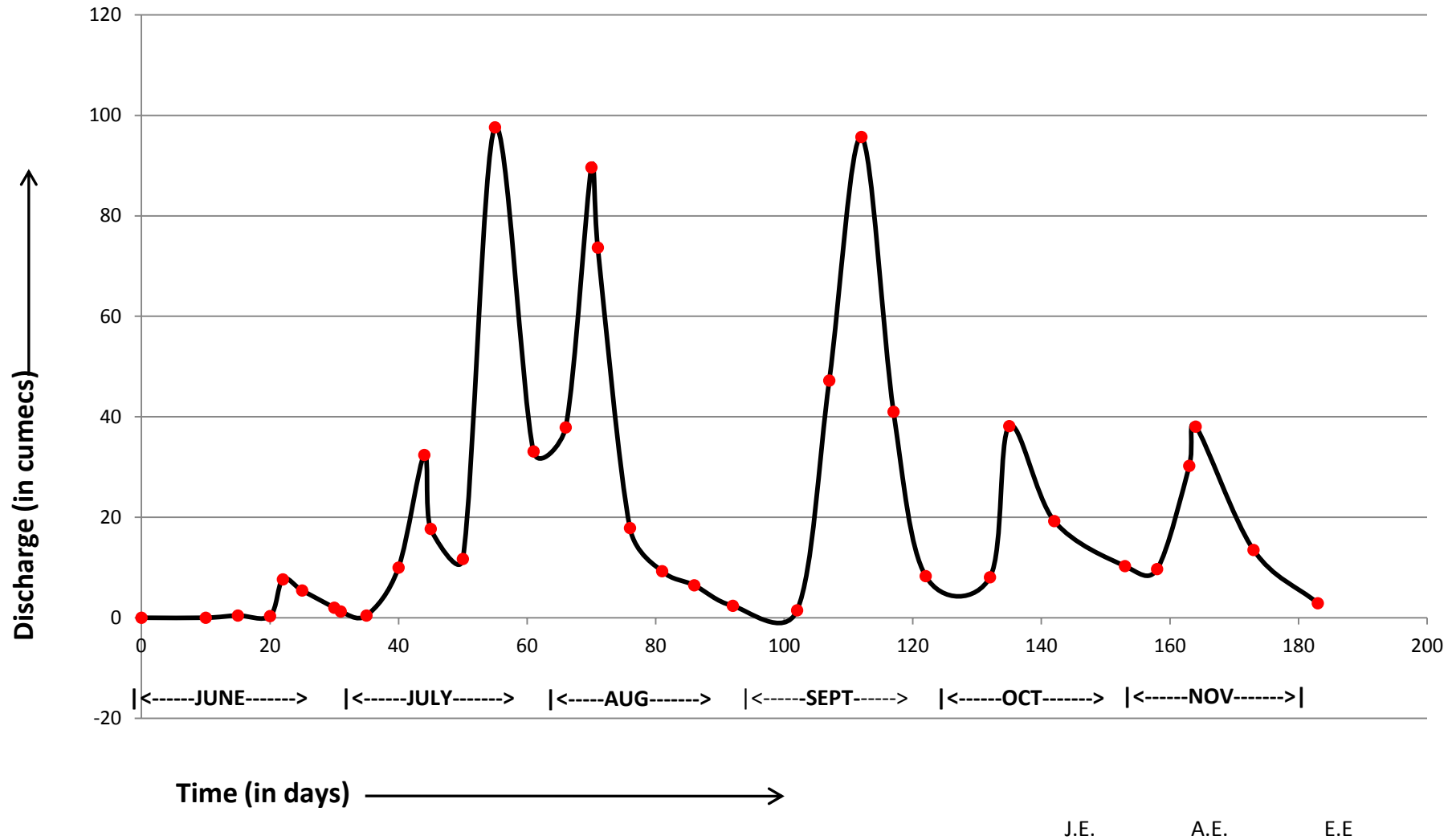
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-GUMANI

RIVER-GUMANI

SITE-BARHET-BARHARWA PATH



Cross Section of river at gauge station

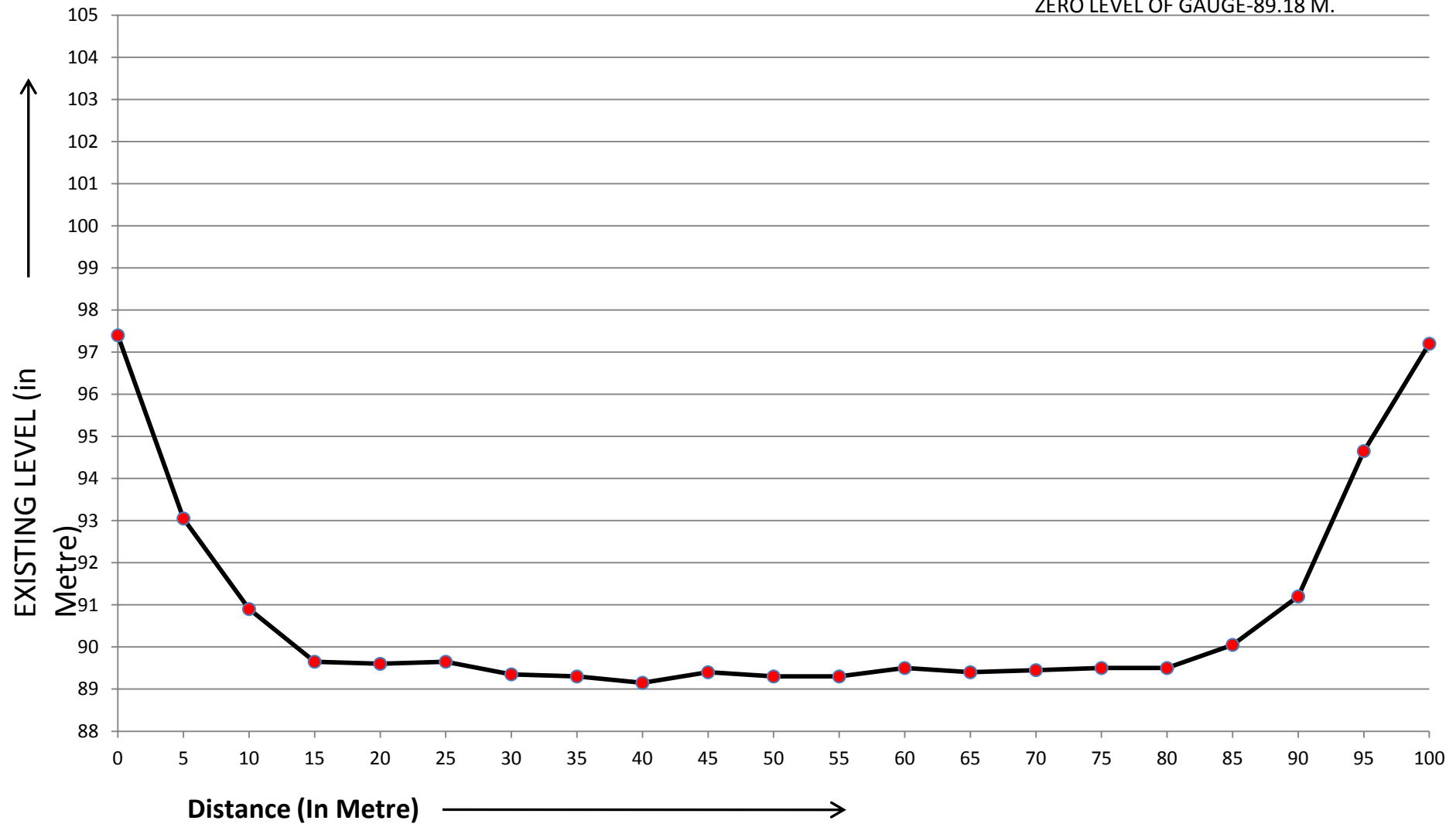
YEAR 2012-13

BASIN-GUMANI

RIVER-GUMANI

SITE-BARHET-BARHARWA PATH

ZERO LEVEL OF GAUGE-89.18 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Chandan, Bilasi, Chir
River - Chir
Site- Poreyahat D/S

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 93.48 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	93.54	1.03	93.56	1.08	93.54	1.03	93.54	1.03	93.52	0.95
2	0.00	0.00	93.52	0.95	93.56	1.08	93.54	1.03	93.54	1.03	93.52	0.95
3	0.00	0.00	93.52	0.95	93.56	1.08	93.54	1.03	93.54	1.03	93.52	0.95
4	0.00	0.00	93.66	1.52	93.56	1.08	93.54	1.03	93.56	1.08	93.78	2.09
5	0.00	0.00	93.68	1.60	93.58	1.18	93.52	0.95	93.54	1.03	93.98	3.90
6	0.00	0.00	93.60	1.33	93.56	1.08	93.52	0.95	93.88	3.05	93.72	2.24
7	0.00	0.00	93.54	1.03	93.54	1.03	93.52	0.95	93.78	2.21	93.60	1.33
8	0.00	0.00	93.54	1.03	93.52	0.95	93.52	0.95	93.68	1.57	93.58	1.33
9	0.00	0.00	93.52	0.95	93.56	1.08	93.52	0.95	93.62	1.37	93.58	1.30
10	0.00	0.00	93.52	0.95	93.54	1.03	93.52	0.95	93.58	1.15	93.56	1.08
11	0.00	0.00	93.58	1.21	93.52	0.95	93.52	0.95	93.64	1.41	93.56	1.09
12	0.00	0.00	93.58	1.21	93.52	0.95	93.52	0.95	93.56	1.09	93.56	1.09
13	0.00	0.00	93.80	2.16	93.52	0.95	93.52	0.95	93.60	1.33	93.60	1.33
14	0.00	0.00	93.72	1.86	93.64	1.55	94.38	8.88	93.58	1.15	93.58	1.15
15	Dry	Dry	93.78	2.09	93.60	1.33	94.40	9.32	93.56	1.09	93.58	1.15
16	Dry	Dry	93.76	2.06	93.58	1.21	94.28	6.75	93.56	1.09	93.56	1.08
17	Dry	Dry	93.64	1.48	93.56	1.08	93.90	2.44	93.56	1.09	93.56	1.08
18	Dry	Dry	93.68	1.68	93.54	1.03	93.78	2.53	93.54	1.03	93.56	1.08
19	Dry	Dry	93.66	1.63	93.52	0.95	93.82	2.69	93.54	1.03	93.56	1.08
20	Dry	Dry	93.62	1.54	93.52	0.95	93.86	2.96	93.54	1.03	93.54	1.03
21	Dry	Dry	93.60	1.40	93.52	0.93	93.76	2.34	93.54	1.03	93.54	1.03
22	Dry	Dry	93.58	1.21	93.54	1.03	93.76	2.34	93.54	1.03	93.54	1.03
23	Dry	Dry	93.56	1.08	93.54	1.03	93.90	3.15	93.54	1.03	93.54	1.03
24	Dry	Dry	93.56	1.08	93.58	1.21	93.84	2.65	93.54	1.03	93.54	1.03

25	93.52	0.95	93.60	1.36	93.64	1.48	93.78	2.33	93.52	0.95	93.54	1.03
26	93.52	0.95	93.66	1.60	93.60	1.33	93.70	2.06	93.52	0.95	93.52	0.95
27	93.56	1.08	93.62	1.54	93.58	1.21	93.62	1.61	93.52	0.95	93.52	0.95
28	93.54	1.03	93.60	1.36	93.58	1.21	93.58	1.18	93.52	0.95	93.52	0.95
29	93.52	0.95	93.58	1.18	93.56	1.12	93.56	1.08	93.52	0.95	93.52	0.95
30	93.54	1.03	93.58	1.18	93.56	1.12	93.56	1.08	93.52	0.95	93.52	0.95
31	-	-	93.56	1.09	93.54	1.03	-	-	93.52	0.95	-	-
ABSTRACT												
Max		1.08		2.16		1.55		9.32		3.05		3.90
Min		0.95		0.95		0.93		0.95		0.95		0.95

Overall Max. Discharge	9.32
Overall Min. Discharge	0.93

J.E.

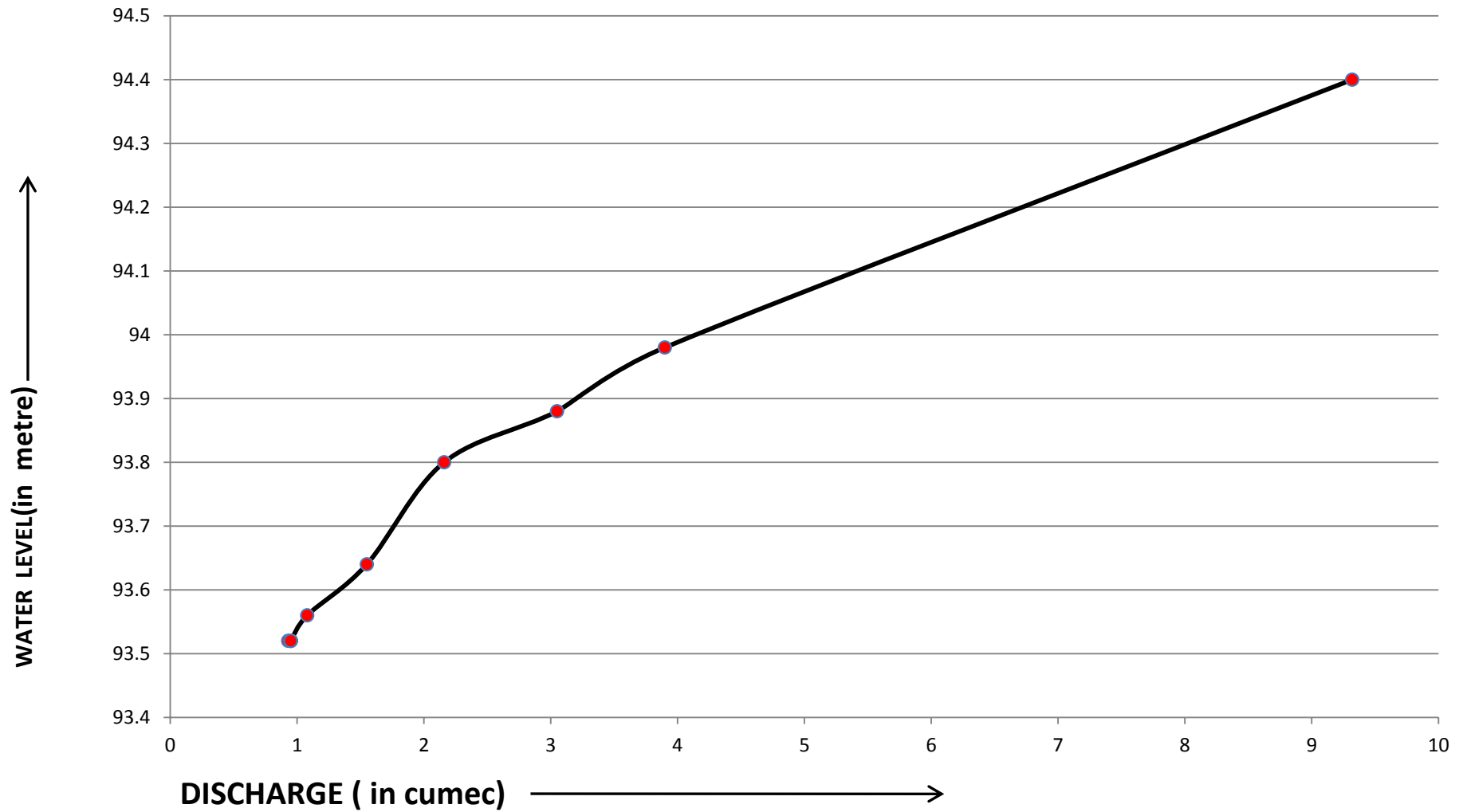
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

BASIN-CHANDAN, BILASI, CHIR
RIVER-CHIR
SITE-POREYAHAT D/S
ZERO LEVEL OF GAUGE-93.48 M



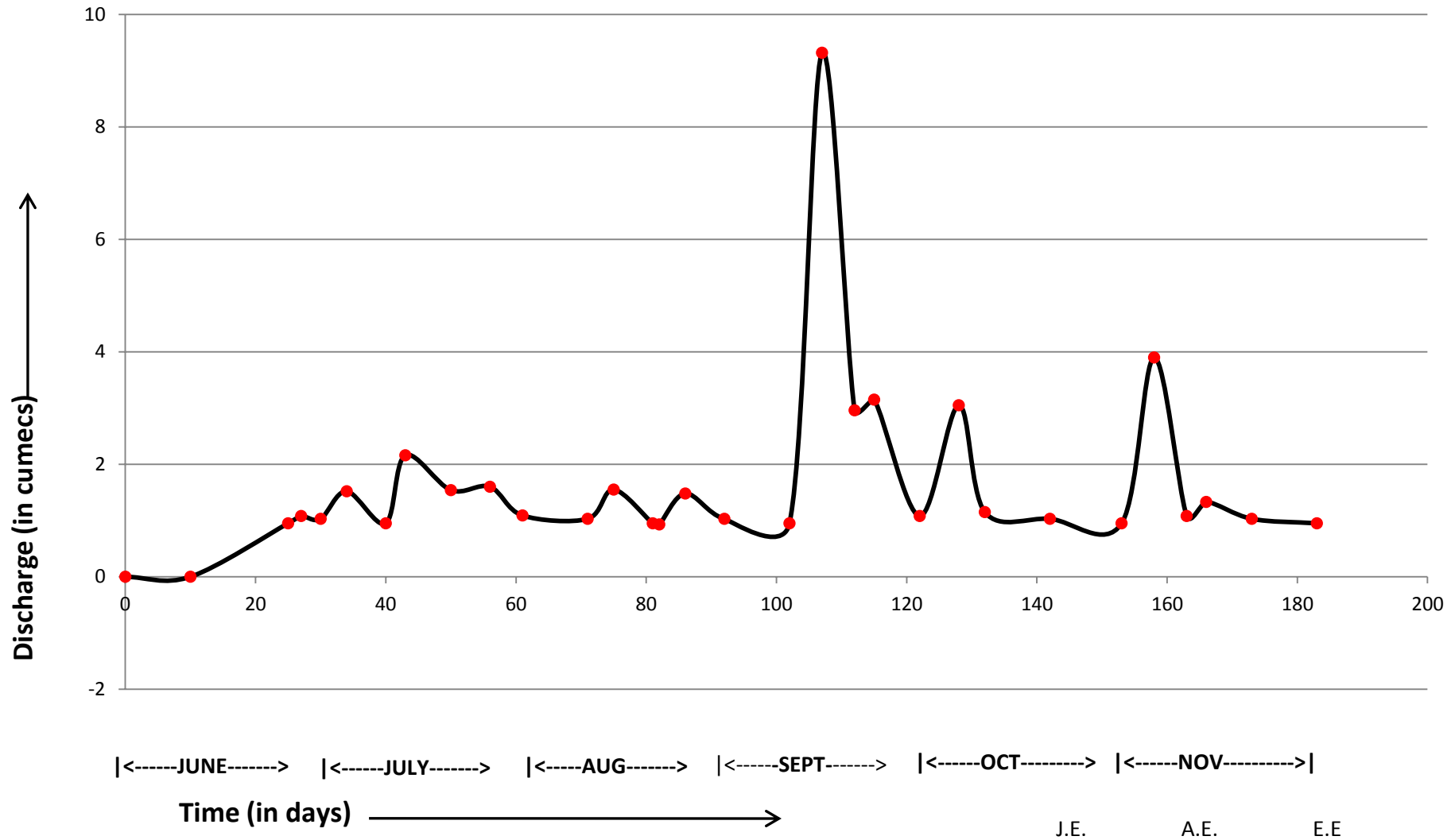
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-CHANDAN, BILASI, CHIR

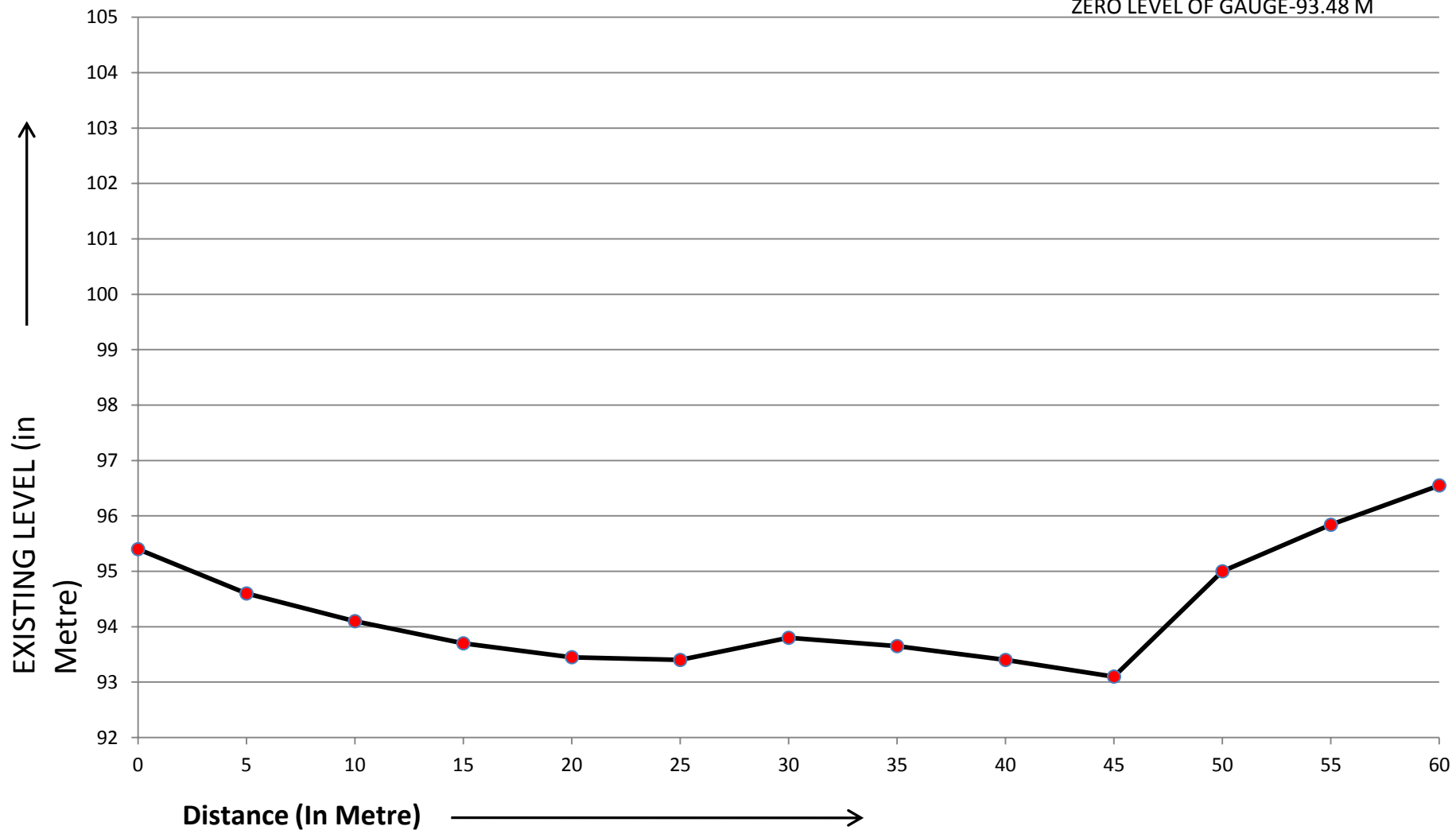
RIVER-CHIR

SITE-POREYAHAT D/S



Cross Section of river at gauge station
YEAR 2012-13

BASIN-CHANDAN, BILASI, CHIR
RIVER-CHIR
SITE-POREYAHAT D/S
ZERO LEVEL OF GAUGE-93.48 M



Year - 2012-13

Basin -Chandan, Bilasi, Chir
River- Kajhia
Site- Hatjamini

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 96.58 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	96.68	1.97	96.73	3.54	96.61	0.45	96.64	1.05	96.66	1.67
2	0.00	0.00	96.68	1.97	96.73	3.54	96.60	0.24	96.67	1.82	96.64	1.05
3	0.00	0.00	96.66	1.44	96.64	1.05	96.62	0.66	96.64	1.05	96.68	1.99
4	0.00	0.00	96.64	1.05	96.64	1.05	96.78	6.21	96.64	1.05	96.78	6.21
5	0.00	0.00	96.68	1.97	96.66	1.67	96.74	4.48	96.64	1.05	96.98	17.46
6	0.00	0.00	96.88	12.43	96.63	0.90	96.80	7.45	96.66	1.67	96.98	17.46
7	0.00	0.00	96.68	1.97	96.68	1.99	96.68	1.99	96.64	1.05	96.88	11.77
8	0.00	0.00	96.72	3.02	96.68	1.99	96.78	6.21	96.68	1.99	96.83	7.56
9	0.00	0.00	96.78	5.68	96.68	1.99	96.88	13.08	96.78	6.21	96.83	7.56
10	0.00	0.00	96.80	6.62	96.64	1.05	96.73	4.13	96.70	2.64	96.78	6.21
11	0.00	0.00	96.98	17.46	96.68	1.99	96.68	1.99	96.68	1.99	96.80	7.45
12	0.00	0.00	96.93	13.20	96.70	2.64	96.66	1.67	96.66	1.66	96.88	11.72
13	0.00	0.00	96.98	17.46	96.66	1.67	96.82	8.53	96.64	1.05	96.88	11.72
14	0.00	0.00	96.88	12.43	96.64	1.05	96.92	16.32	96.70	2.64	96.86	10.34
15	0.00	0.00	96.86	11.88	96.74	3.84	97.08	39.60	96.68	1.99	96.83	7.56
16	0.00	0.00	96.90	14.32	96.68	1.99	96.92	17.48	96.68	1.99	96.84	8.29
17	0.00	0.00	96.88	13.08	96.66	1.67	96.78	6.21	96.70	2.64	96.84	8.29
18	0.00	0.00	97.78	140.65	96.64	1.05	96.68	1.99	96.68	1.99	96.82	7.95
19	96.63	0.89	96.98	17.46	96.62	0.66	96.82	8.53	96.68	1.99	96.78	7.45
20	96.63	0.89	96.78	5.68	96.70	2.64	96.88	13.08	96.70	2.64	96.78	7.45
21	96.60	0.27	96.73	3.54	96.64	1.05	96.88	13.08	96.68	1.99	96.76	4.86
22	96.62	0.66	96.68	1.90	96.68	1.99	96.78	6.21	96.67	1.82	96.74	3.97
23	96.62	0.66	96.78	5.25	96.70	2.64	96.70	2.64	96.67	1.82	96.74	3.97
24	96.62	0.66	96.78	5.25	96.66	1.67	96.68	1.99	96.64	1.05	96.72	3.54
25	96.64	1.05	96.74	3.97	96.76	4.86	96.68	1.99	96.64	1.05	96.74	3.97

26	96.64	1.05	96.74	3.97	96.68	1.99	96.67	1.83	96.66	1.67	96.74	3.97
27	96.63	0.89	96.78	5.25	96.68	1.99	96.66	1.67	96.62	0.66	96.72	3.54
28	96.63	0.89	96.74	3.97	96.64	1.05	96.68	1.99	96.63	0.89	96.70	2.64
29	96.68	1.97	96.78	5.25	96.64	1.05	96.66	1.67	96.63	0.89	96.70	2.64
30	96.70	2.46	96.74	3.97	96.66	1.67	96.66	1.67	96.62	0.66	96.70	2.64
31	-	-	96.70	2.64	96.66	1.67	-	-	96.64	1.05	-	-
ABSTRACT												
Max		2.46		140.65		4.86		39.60		6.21		17.46
Min		0.27		1.05		0.66		0.24		0.66		1.05

Overall Max. Discharge	140.65
Overall Min. Discharge	0.24

J.E.

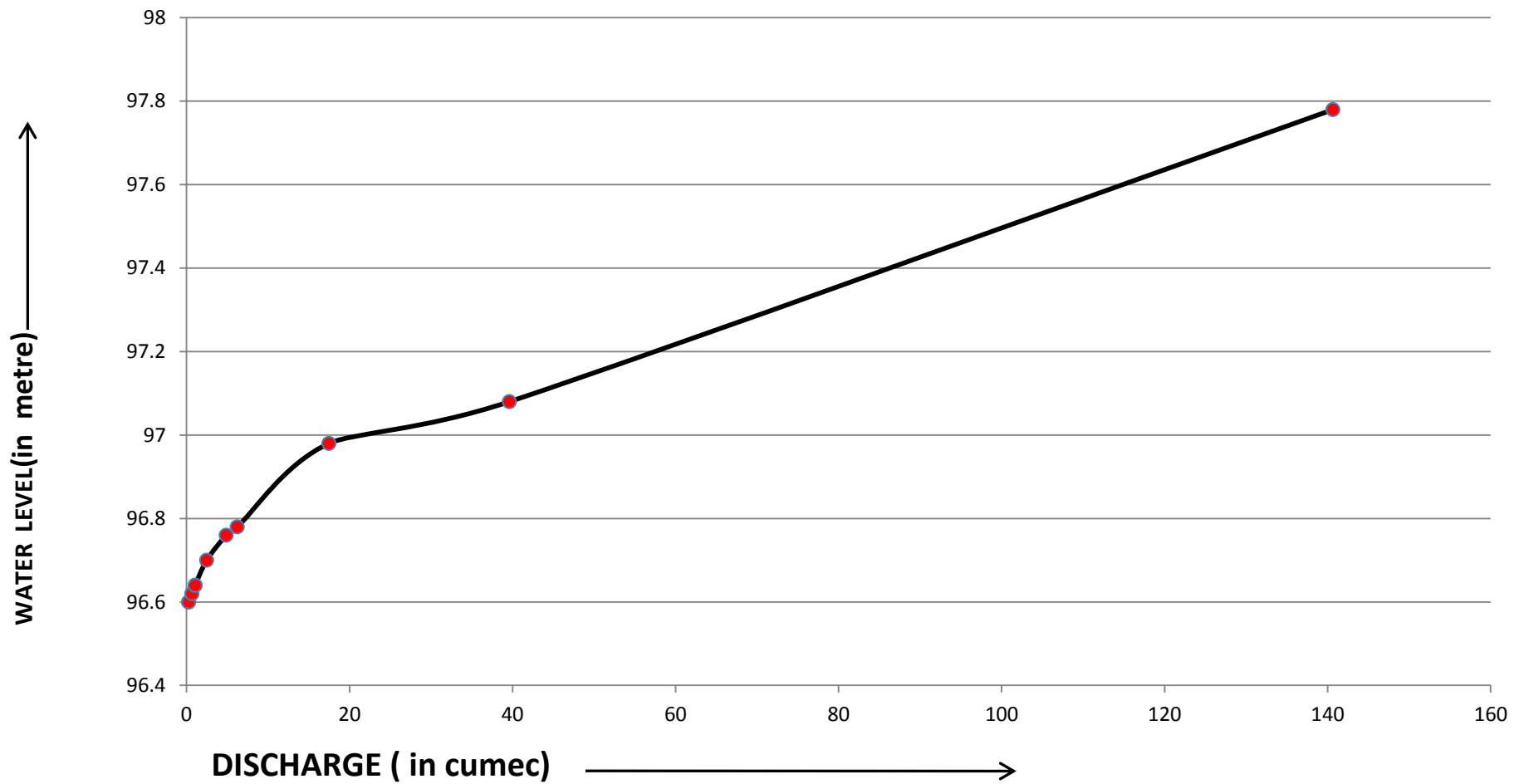
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

BASIN-CHANDAN, BILASI, CHIR
RIVER-KAJHIA
SITE-HATJAMINI
ZERO LEVEL OF GAUGE-96.58 M



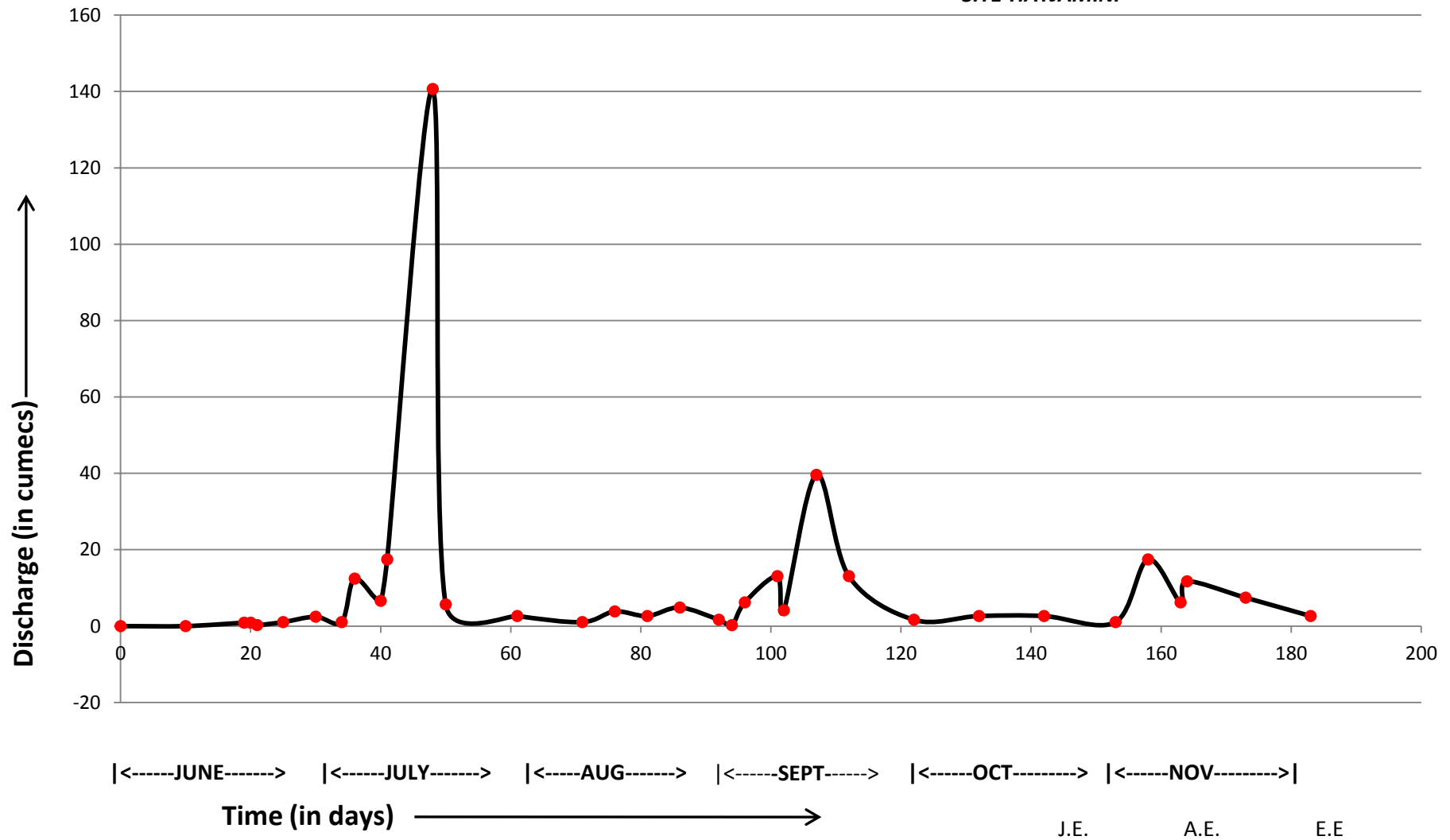
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-CHANDAN, BILASI, CHIR

RIVER-KAJHIA

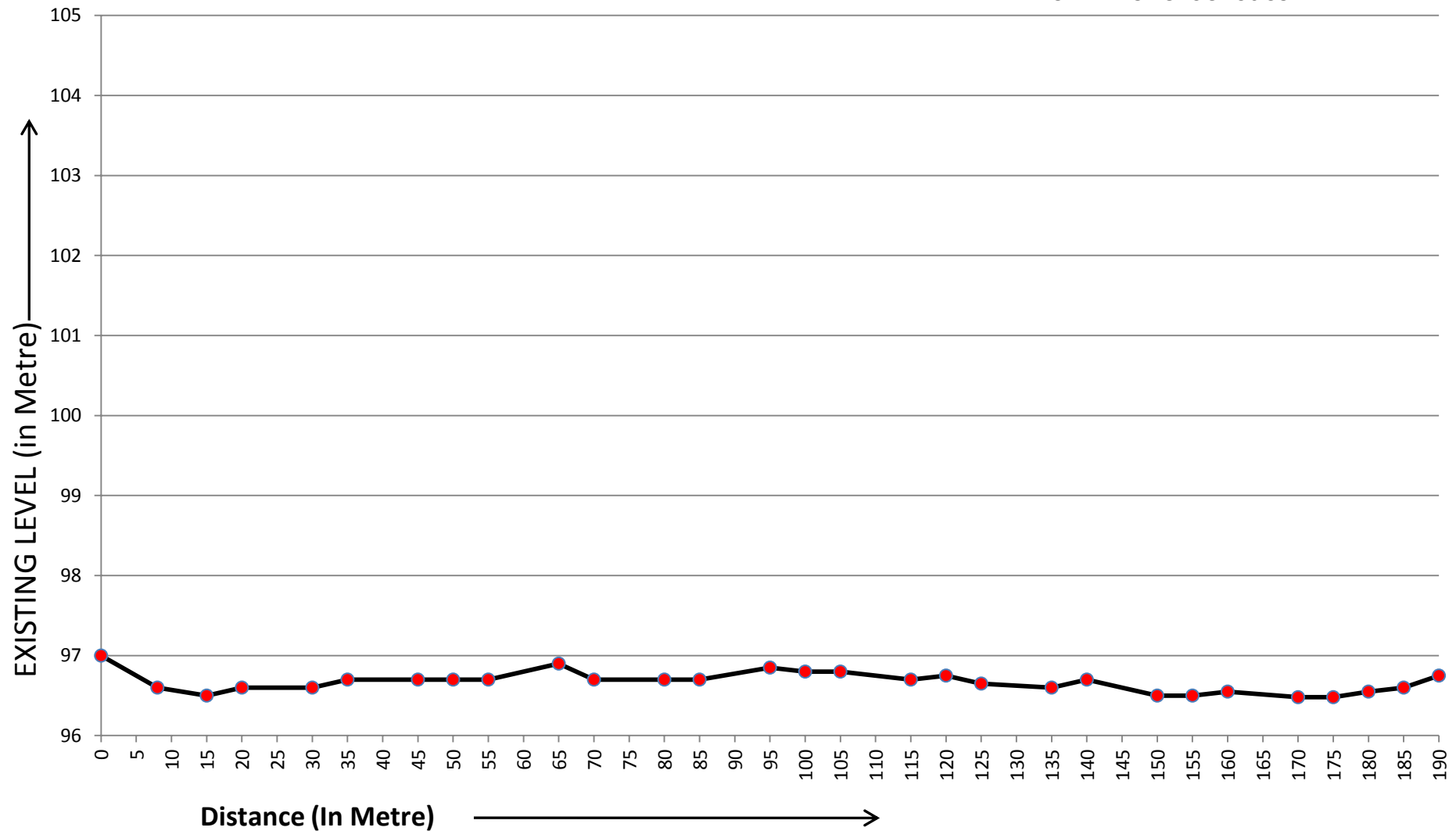
SITE-HATJAMINI



Cross Section of river at gauge station

YEAR 2012-13

BASIN-CHANDAN, BILASI, CHIR
RIVER-KAJHIA
SITE-HATJAMINI
ZERO LEVEL OF GAUGE-96.58 M



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Damodar
River- Bokaro
Site- Tenughat Banaso Road

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 236.32 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	236.72	9.94	237.10	55.44	236.82	21.50	236.84	21.86	236.62	4.90
2	0.00	0.00	236.68	7.80	237.06	43.47	236.72	11.96	236.80	20.44	236.60	4.20
3	0.00	0.00	236.62	4.80	236.94	36.08	236.80	17.85	236.74	13.81	236.60	4.20
4	0.00	0.00	236.74	3.14	236.78	17.08	236.86	25.40	236.72	10.34	236.72	10.34
5	0.00	0.00	236.82	21.49	236.88	26.13	237.18	58.00	236.66	6.50	236.74	13.81
6	0.00	0.00	236.84	25.82	237.16	61.16	237.06	43.12	236.90	27.60	236.72	10.34
7	0.00	0.00	236.82	21.49	237.18	59.45	236.94	36.08	236.86	25.40	236.74	13.81
8	0.00	0.00	237.00	35.50	236.96	34.50	236.86	25.40	236.84	23.28	236.66	6.50
9	0.00	0.00	236.90	28.40	236.82	21.50	237.02	40.04	236.90	28.40	236.62	4.90
10	0.00	0.00	236.78	15.24	236.72	11.97	236.96	34.50	236.72	10.30	236.60	4.20
11	0.00	0.00	236.70	9.10	236.80	17.85	236.88	29.44	236.62	4.90	236.58	4.10
12	0.00	0.00	236.72	10.75	236.92	28.98	236.92	28.98	236.64	5.74	236.58	4.10
13	0.00	0.00	236.88	26.13	237.04	43.20	236.84	22.92	236.60	4.20	236.58	4.10
14	0.00	0.00	236.88	26.13	237.16	61.16	236.80	17.85	236.56	3.61	236.54	3.24
15	0.00	0.00	236.84	22.92	237.68	54.03	236.72	10.34	236.52	2.60	236.56	3.60
16	0.00	0.00	236.62	4.90	237.26	58.30	236.66	6.37	236.62	4.90	236.52	2.18
17	0.00	0.00	236.72	9.73	237.20	53.11	236.82	21.50	236.60	4.70	236.54	3.24
18	236.38	0.23	236.70	8.90	237.46	55.35	236.76	14.08	236.58	4.18	236.50	1.98
19	236.40	0.57	236.64	7.34	237.26	58.30	236.72	11.96	236.56	3.61	236.48	1.10
20	236.50	1.84	236.76	14.08	237.02	40.04	237.10	44.73	236.54	3.29	236.48	1.20
21	236.42	0.47	236.74	11.80	236.84	22.92	237.04	43.20	236.56	3.61	236.48	1.20
22	236.38	0.23	236.64	5.58	236.78	16.28	237.02	40.04	236.54	3.29	236.48	1.20
23	236.34	0.156	236.62	4.90	236.72	11.96	236.94	36.08	236.56	3.61	236.50	1.91
24	0.00	0.00	236.58	3.71	236.68	7.80	236.90	27.60	236.52	2.60	236.50	1.91

25	0.00	0.00	236.52	1.93	236.72	11.96	236.88	26.13	236.54	3.29	236.48	1.20
26	0.00	0.00	237.20	62.32	236.74	13.81	236.86	25.40	236.60	4.20	236.48	1.20
27	0.00	0.00	236.92	28.98	236.68	7.80	236.84	23.29	236.60	4.20	236.48	1.20
28	0.00	0.00	237.12	53.30	236.64	5.47	236.78	15.24	236.60	4.20	236.48	1.20
29	0.00	0.00	237.18	59.45	236.62	4.90	236.72	10.34	236.56	3.61	236.48	1.20
30	0.00	0.00	237.04	43.20	236.74	13.14	236.66	6.37	236.56	3.61	236.48	1.20
31	-	-	237.04	43.20	236.76	14.08	-	-	236.54	3.29	-	-
ABSTRACT												
Max		1.84		62.32		61.16		58.00		28.40		13.81
Min		0.156		1.93		4.90		6.37		2.60		1.10

Overall Max. Discharge	62.32
Overall Min. Discharge	0.156

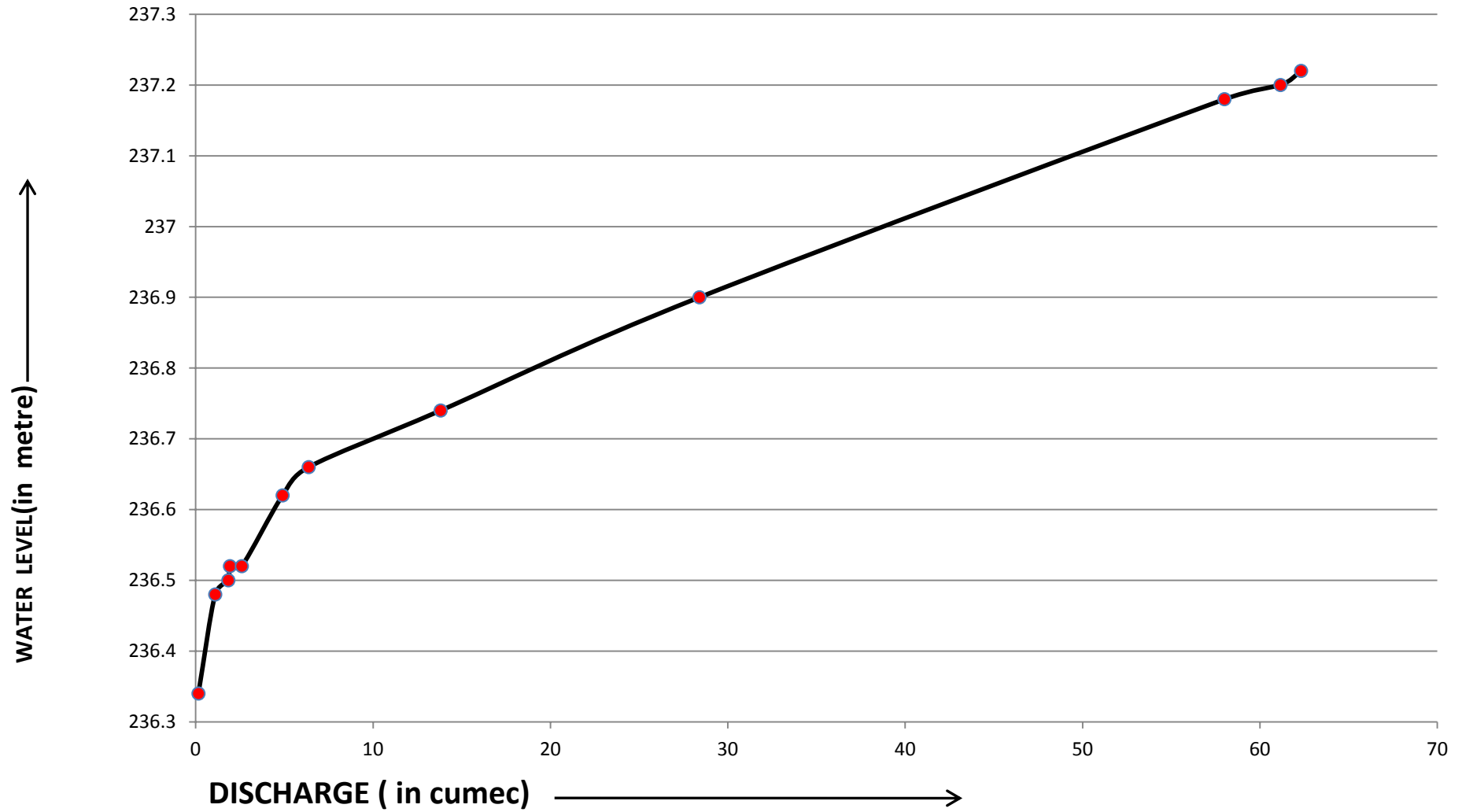
J.E.

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E.E.

STAGE GRAPH
YEAR 2012-13

BASIN-DAMODAR
RIVER-BOKARO
SITE-TENUGHAT- BANASO ROAD
ZERO LEVEL OF GAUGE-236.32 M



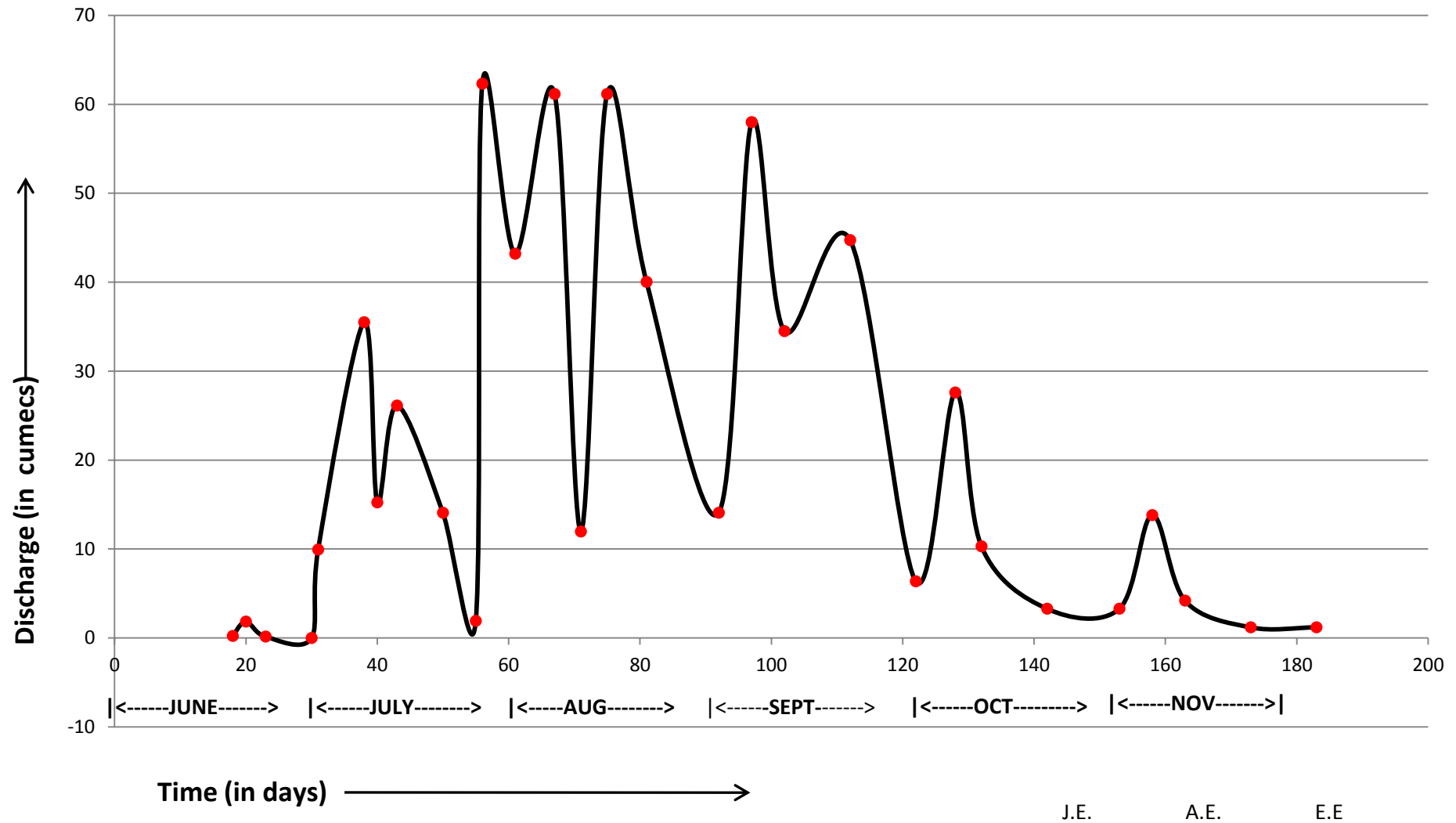
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-DAMODAR

RIVER-BOKARO

SITE- TENUGHAT-BANASO ROAD



Cross Section of river at gauge station

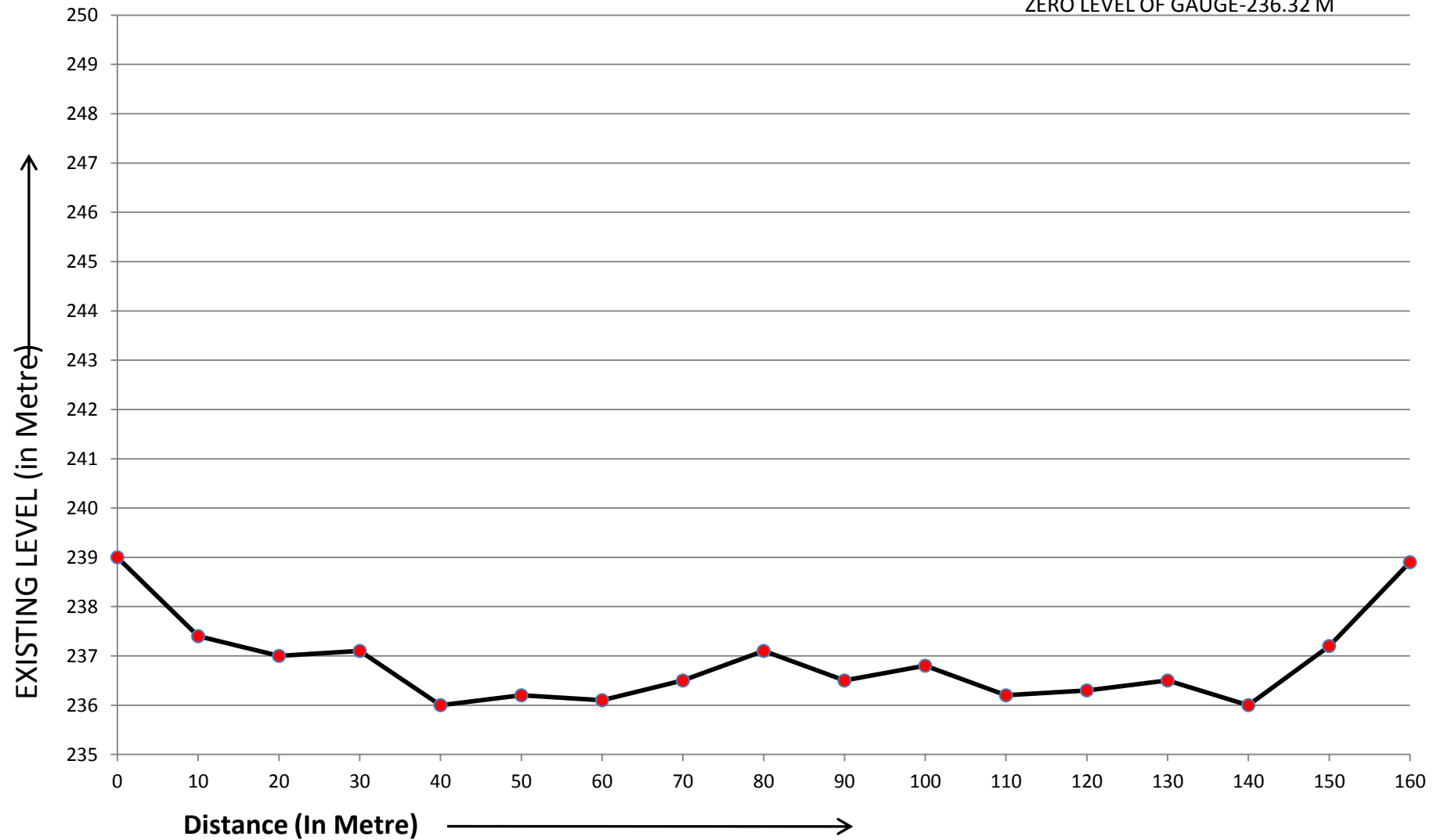
YEAR 2012-13

BASIN-DAMODAR

RIVER-BOKARO

SITE-TENUGHAT- BANASO ROAD

ZERO LEVEL OF GAUGE-236.32 M



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Damodar
River- Konar
Site- Banaso Tenughat Road

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 248.42 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	249.28	22.12	249.72	46.53	249.72	46.53	249.72	46.53	249.64	42.77
2	0.00	0.00	249.30	22.41	249.70	45.54	249.68	44.61	249.68	44.61	249.62	40.57
3	0.00	0.00	249.30	22.41	249.74	51.84	249.70	49.68	249.66	43.69	249.60	38.44
4	0.00	0.00	249.28	21.33	249.72	46.53	249.78	55.50	249.68	44.61	249.60	38.44
5	0.00	0.00	249.30	22.41	249.70	45.54	249.72	48.53	249.68	44.61	249.62	40.57
6	0.00	0.00	249.32	23.91	249.68	44.61	249.72	46.53	249.66	43.69	249.56	36.70
7	0.00	0.00	249.38	24.23	249.70	45.54	249.68	44.61	249.64	42.77	249.52	33.84
8	0.00	0.00	249.36	26.21	249.68	44.61	249.72	46.53	249.64	42.77	249.54	35.83
9	0.00	0.00	249.36	26.21	249.72	46.53	249.66	43.69	249.66	43.66	249.54	35.83
10	0.00	0.00	249.40	27.84	249.76	53.61	249.64	42.77	249.70	45.54	249.50	33.00
11	0.00	0.00	249.38	27.03	249.74	50.40	249.62	40.58	249.80	56.60	249.50	33.00
12	0.00	0.00	249.36	26.21	249.70	45.54	249.60	38.40	249.82	57.72	249.48	32.16
13	0.00	0.00	249.44	30.48	249.74	50.40	249.58	37.57	249.80	56.60	249.44	30.48
14	0.00	0.00	249.50	33.00	249.80	56.61	249.62	40.58	249.78	55.50	249.44	30.48
15	249.20	18.40	249.48	33.23	249.86	59.94	249.60	38.40	249.74	50.40	249.44	30.48
16	249.18	18.36	249.46	31.12	249.82	57.72	249.58	37.57	249.74	50.40	249.42	29.64
17	249.18	17.68	249.46	32.36	249.76	53.61	249.56	36.70	249.72	46.53	249.40	27.44
18	249.20	18.46	249.42	29.64	249.72	46.53	249.54	35.83	249.76	53.61	249.42	29.64
19	249.22	19.71	249.40	29.76	249.68	44.61	249.60	38.44	249.74	53.28	249.40	27.44
20	249.22	18.98	249.40	29.76	249.74	50.40	249.64	42.77	249.72	52.17	249.38	27.03
21	249.20	19.17	249.50	33.00	249.82	57.72	249.62	40.57	249.72	52.17	249.34	24.58
22	249.20	19.17	249.56	36.70	249.84	58.83	249.60	38.44	249.72	52.17	249.32	24.58
23	249.22	19.71	249.60	38.44	249.76	53.61	249.58	37.57	249.72	52.17	249.30	22.41
24	249.22	18.68	249.70	45.54	249.70	45.54	249.58	37.57	249.70	50.70	249.32	24.58

25	249.24	20.25	249.74	50.40	249.80	56.61	249.58	38.44	249.68	44.61	249.30	22.41
26	249.28	21.33	249.74	50.40	249.86	59.94	249.60	38.44	249.66	43.66	249.28	21.33
27	249.28	22.12	249.78	55.50	249.86	59.94	249.58	39.97	249.64	42.77	249.24	20.25
28	249.26	20.79	249.76	52.92	249.82	57.72	249.66	46.34	249.68	44.61	249.24	20.25
29	249.26	21.56	249.74	50.40	249.78	55.50	249.76	54.39	249.66	43.66	249.18	18.36
30	249.26	22.12	249.76	52.92	249.78	55.50	249.74	50.40	249.64	42.77	249.18	18.36
31			249.74	50.40	249.80	56.61			249.64	42.77		
ABSTRACT												
Max		22.12		55.50		59.94		55.50		57.72		42.77
Min		17.68		21.33		44.61		35.83		42.77		18.36

Overall Max. Discharge	59.94
Overall Min. Discharge	17.68

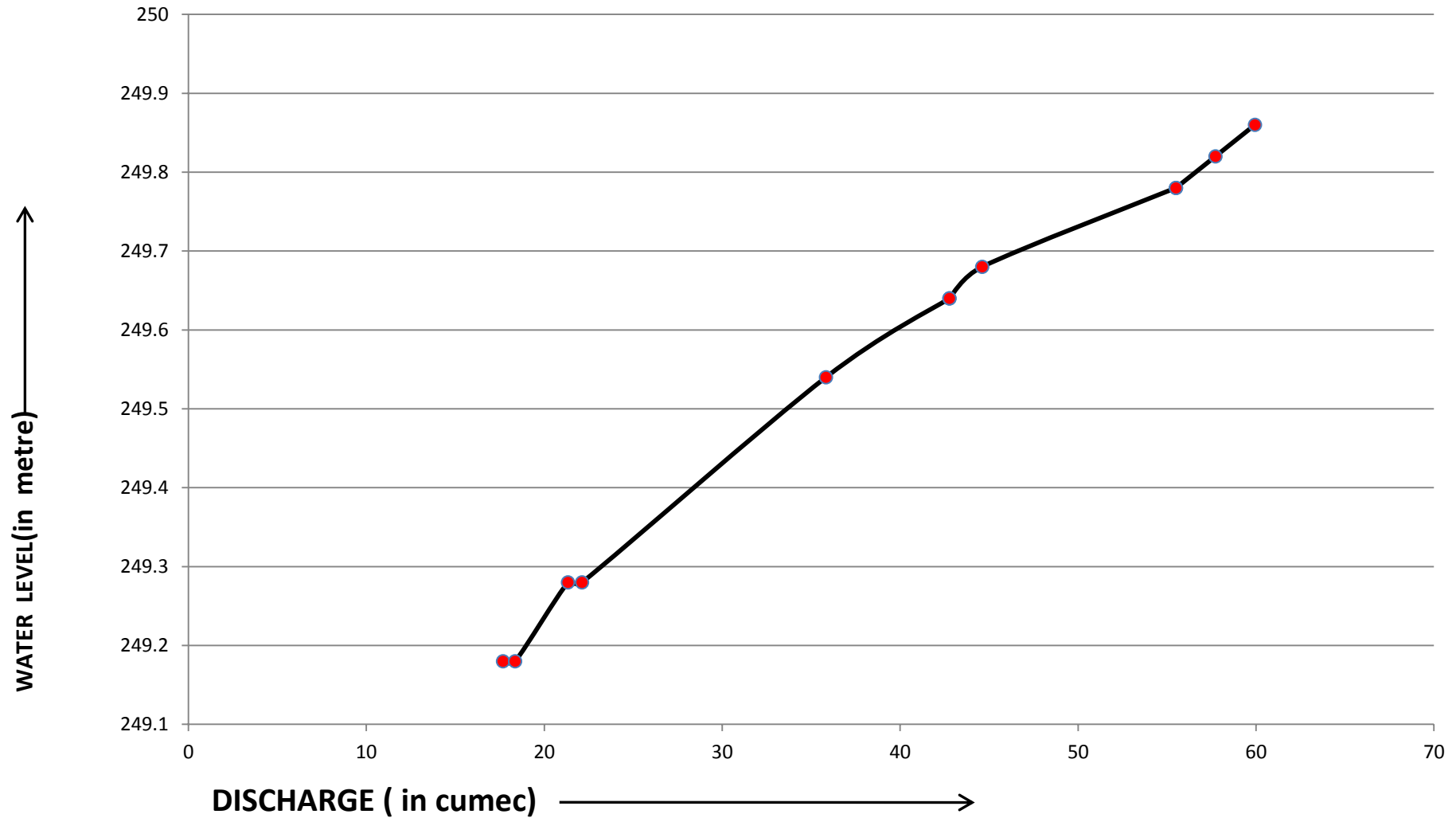
J.E.

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E.E.

STAGE GRAPH
YEAR 2012-13

BASIN-DAMODAR
RIVER-KONAR
SITE-BANASO-TENUGHAT ROAD
ZERO LEVEL OF GAUGE-248.42 M.



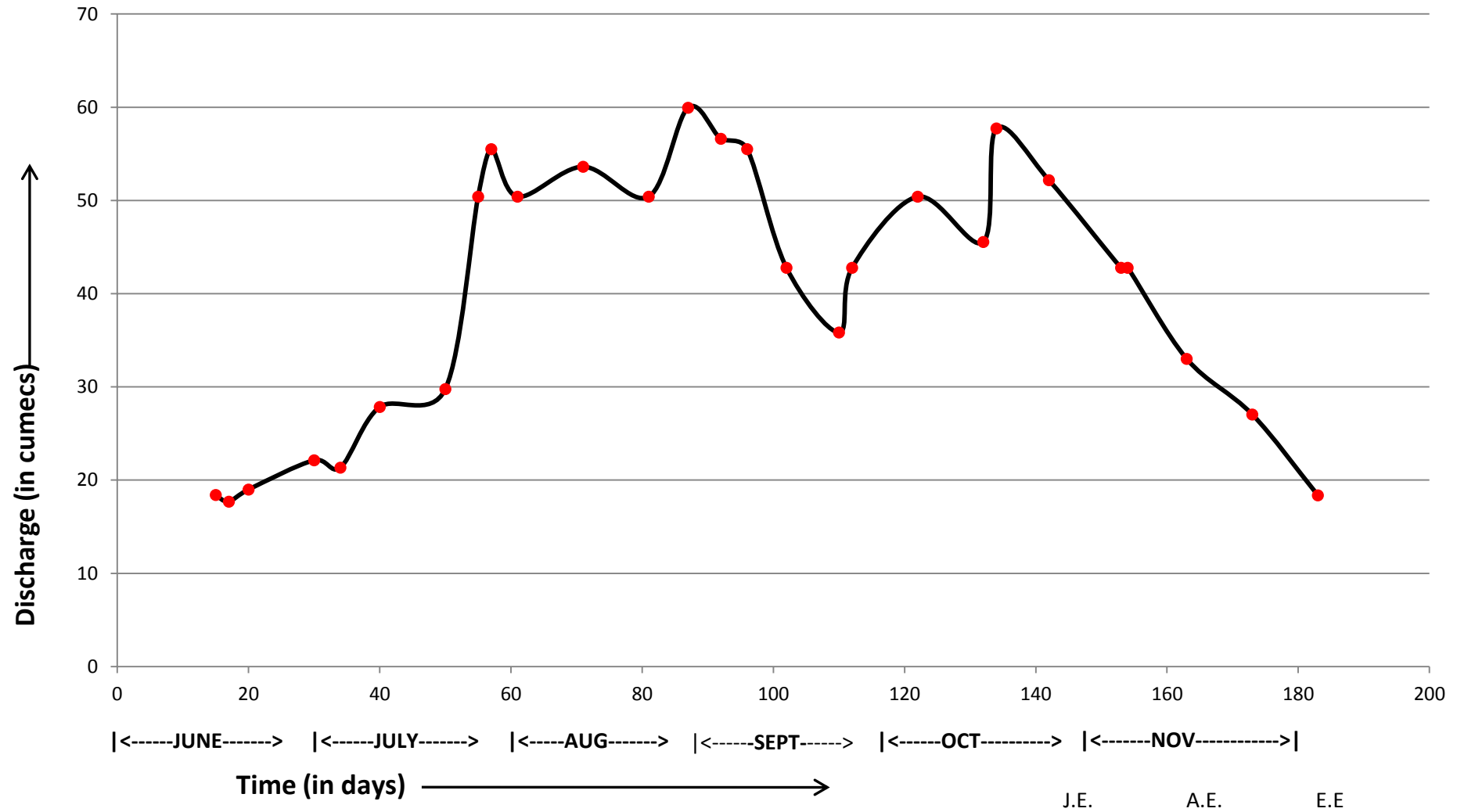
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-DAMODAR

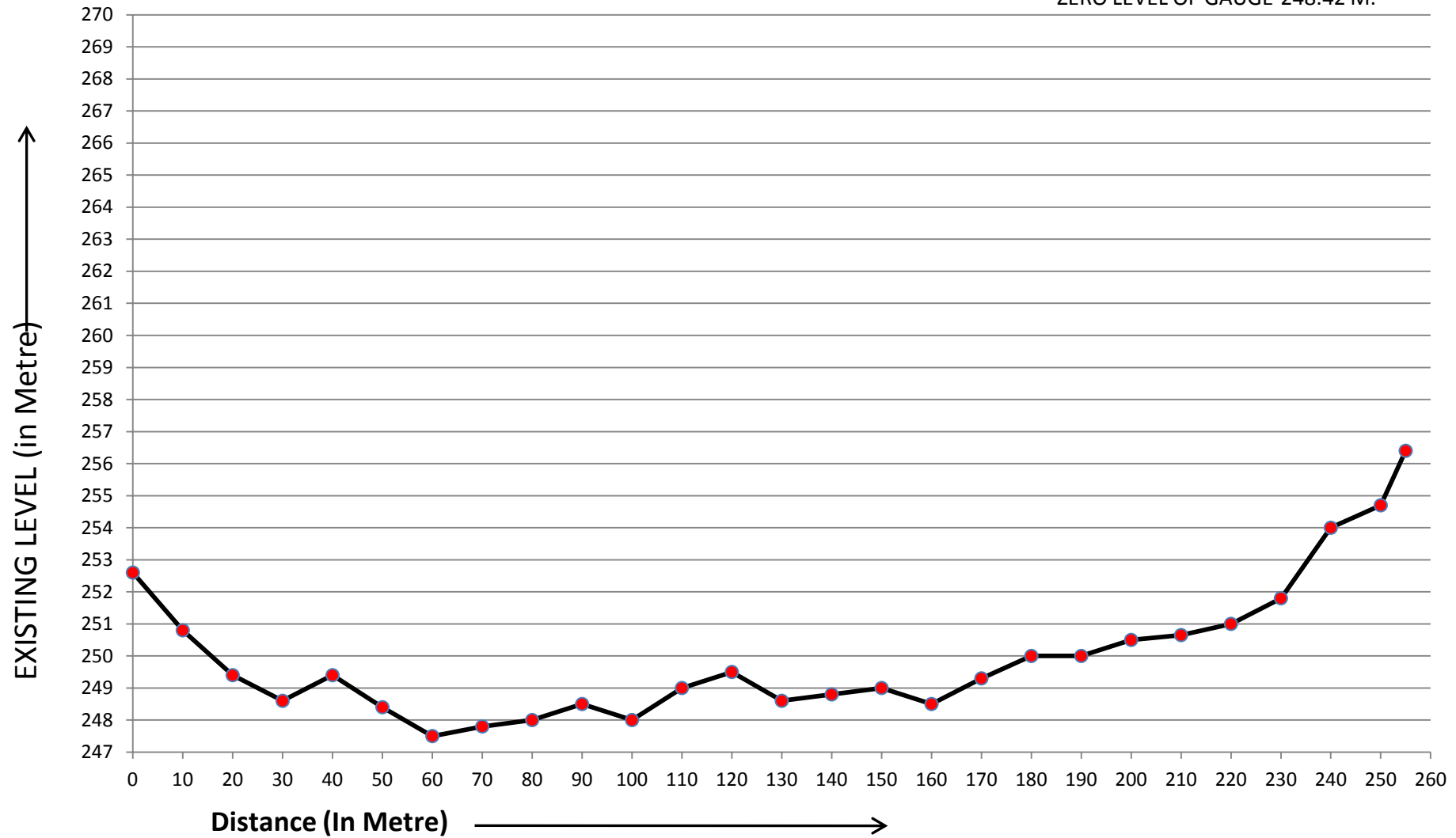
RIVER-KONAR

SITE-BANASO-TENUGHAT ROAD



Cross Section of river at gauge station
YEAR 2012-13

BASIN-DAMODAR
RIVER-KONAR
SITE-BANASO-TENUGHAT ROAD
ZERO LEVEL OF GAUGE-248.42 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Damodar
River - Damodar
Site- Tenughat Dam D/S

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 218.67 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	219.49	52.50	219.97	133.64	Over flow	Over flow	220.37	211.80	220.05	151.81
2	0.00	0.00	219.51	55.80	220.15	173.42	Over flow	Over flow	220.33	205.80	220.04	150.70
3	0.00	0.00	219.55	59.94	220.21	189.00	Over flow	Over flow	220.31	203.40	220.03	149.60
4	0.00	0.00	219.63	66.97	220.17	176.32	220.97	401.60	220.29	200.40	220.03	149.60
5	0.00	0.00	219.71	75.62	220.13	171.10	220.93	320.45	220.27	197.44	220.10	156.85
6	0.00	0.00	219.73	77.68	220.07	154.00	220.87	303.04	220.25	196.64	220.10	156.85
7	0.00	0.00	219.81	88.80	220.19	179.22	220.81	292.32	220.21	189.00	220.00	145.75
8	0.00	0.00	219.79	86.80	220.15	173.40	220.79	288.54	220.15	173.42	219.99	136.24
9	0.00	0.00	219.89	99.82	220.13	171.10	220.77	285.39	220.07	154.00	219.99	134.24
10	0.00	0.00	219.91	104.92	220.11	168.20	220.47	230.56	220.11	168.20	219.97	133.64
11	0.00	0.00	219.95	121.44	220.07	154.00	220.57	249.62	220.15	173.42	219.97	133.64
12	0.00	0.00	219.97	125.57	220.23	188.21	220.63	259.16	220.15	173.42	219.97	133.64
13	0.00	0.00	219.91	104.92	220.23	188.21	220.61	259.16	220.13	171.10	219.95	103.73
14	0.00	0.00	219.89	99.82	220.21	185.85	220.63	259.16	220.13	171.10	219.95	103.73
15	219.23	20.90	219.85	95.10	220.09	156.75	220.61	257.30	220.15	173.42	219.95	103.73
16	219.21	20.46	219.83	90.18	over flow	Opening	220.58	251.10	220.15	173.42	219.93	93.48
17	219.21	20.46	219.77	84.80	over flow	Opening	220.57	249.24	220.11	168.20	219.92	93.48
18	219.19	19.58	219.75	79.04	over flow	Opening	220.59	252.96	220.09	171.10	219.91	92.72

19	219.25	31.50	219.75	79.04	220.97	401.60	220.58	251.10	220.07	154.00	219.91	92.72
20	219.31	36.27	219.79	86.80	220.85	302.72	220.55	246.14	220.05	151.81	219.89	86.04
21	219.27	33.90	219.87	97.30	220.92	319.15	220.53	239.12	220.05	151.81	219.87	84.60
22	219.37	40.00	219.77	84.62	220.91	317.85	220.51	236.68	220.04	150.70	219.87	84.60
23	219.39	43.20	219.87	97.82	220.85	302.70	220.47	230.58	220.03	149.60	219.85	80.50
24	219.43	47.68	219.97	131.07	220.77	280.86	220.47	230.58	220.03	149.60	219.85	80.50
25	219.45	49.70	219.95	121.44	220.73	274.66	220.45	228.01	220.01	146.85	219.83	76.84
26	219.47	50.30	219.93	115.62	220.67	261.08	220.47	230.58	219.99	136.24	219.83	76.84
27	219.47	50.30	219.92	113.16	220.77	280.86	220.45	228.01	220.03	149.60	219.81	75.48
28	219.45	49.70	219.92	113.16	220.89	313.95	220.43	224.46	220.09	156.75	219.81	75.48
29	219.45	49.70	219.89	99.82	221.03	440.30	220.40	222.04	220.07	154.00	219.79	69.44
30	219.43	47.68	219.60	60.60	221.15	519.40	220.39	214.80	220.07	154.00	219.79	69.44
31	-	-	219.85	95.10	221.13	511.56	-	-	220.05	151.81	-	-
ABSTRACT												
Max	219.47	50.30	219.97	131.07	221.15	519.40	220.97	401.60	220.37	211.80	220.10	156.85
Min	219.19	19.58	219.49	52.50	219.97	133.64	220.39	214.80	219.99	136.24	219.79	69.44

Overall Max. Discharge	519.40
Overall Min. Discharge	19.58

J.E.

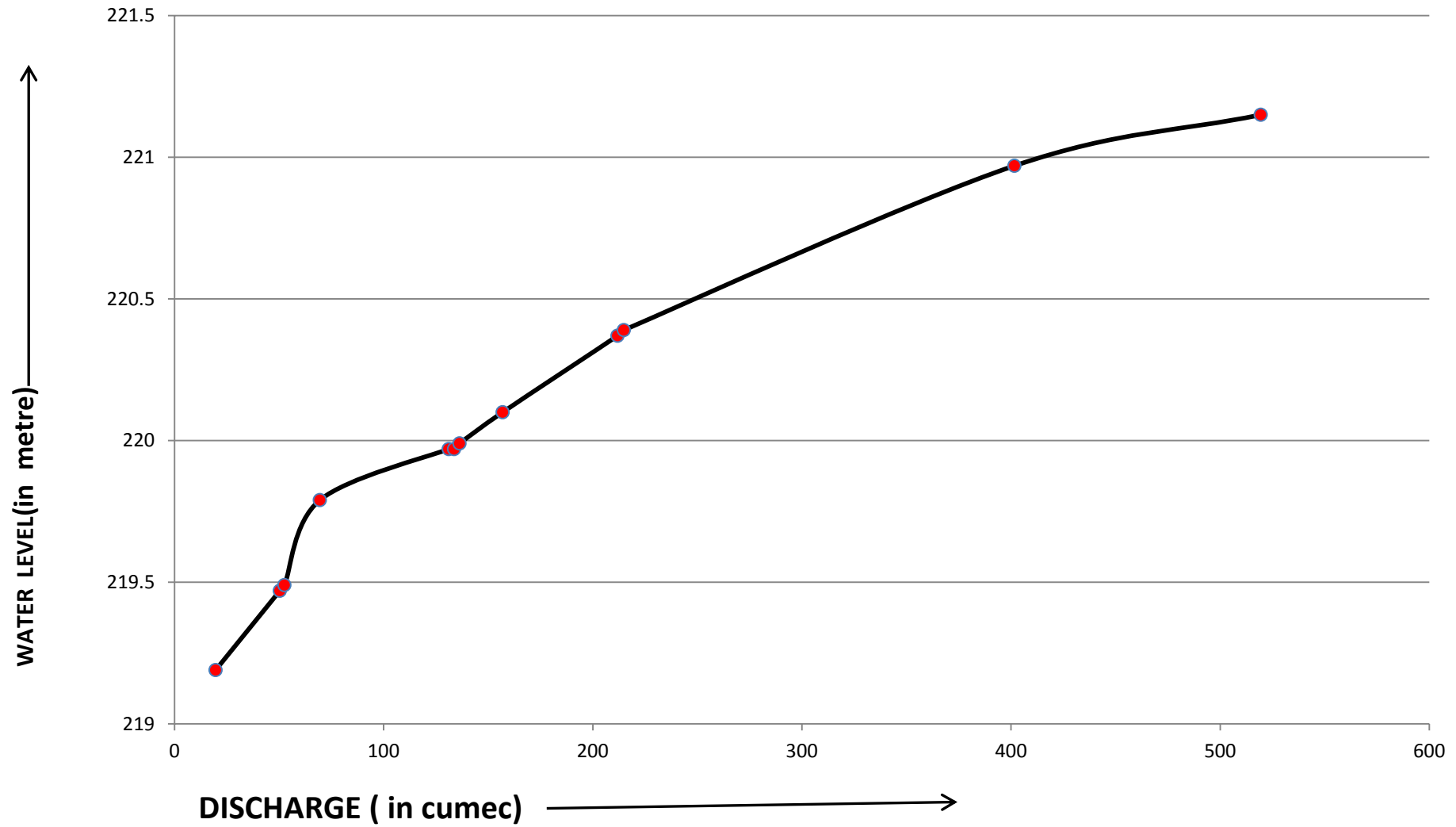
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

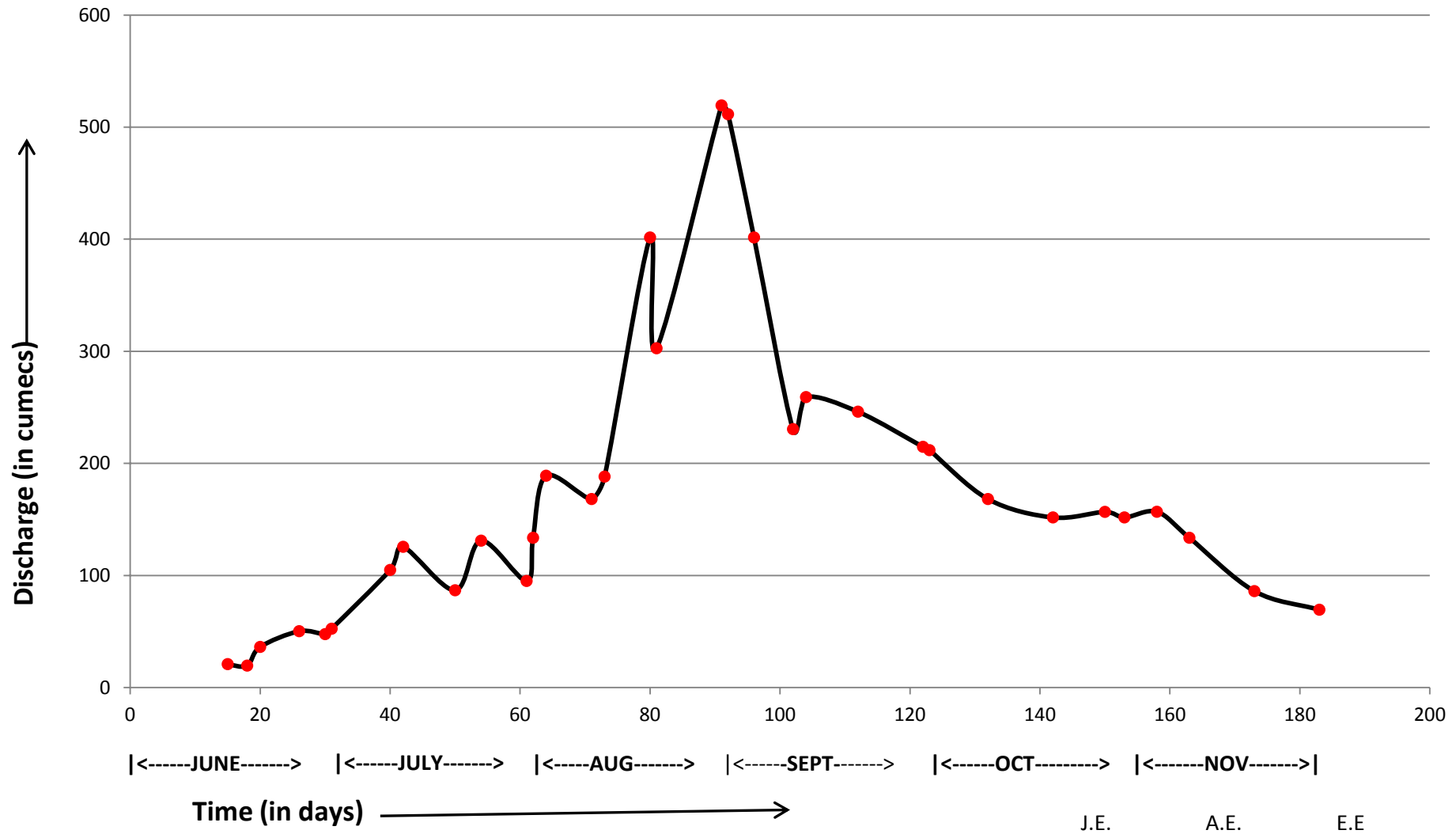
BASIN-DAMODAR
RIVER-DAMODAR
SITE-TENUGHAT DAM D/S
ZERO LEVEL OF GAUGE-218.67 M



STORM HYDROGRAPH

YEAR: 2012-13

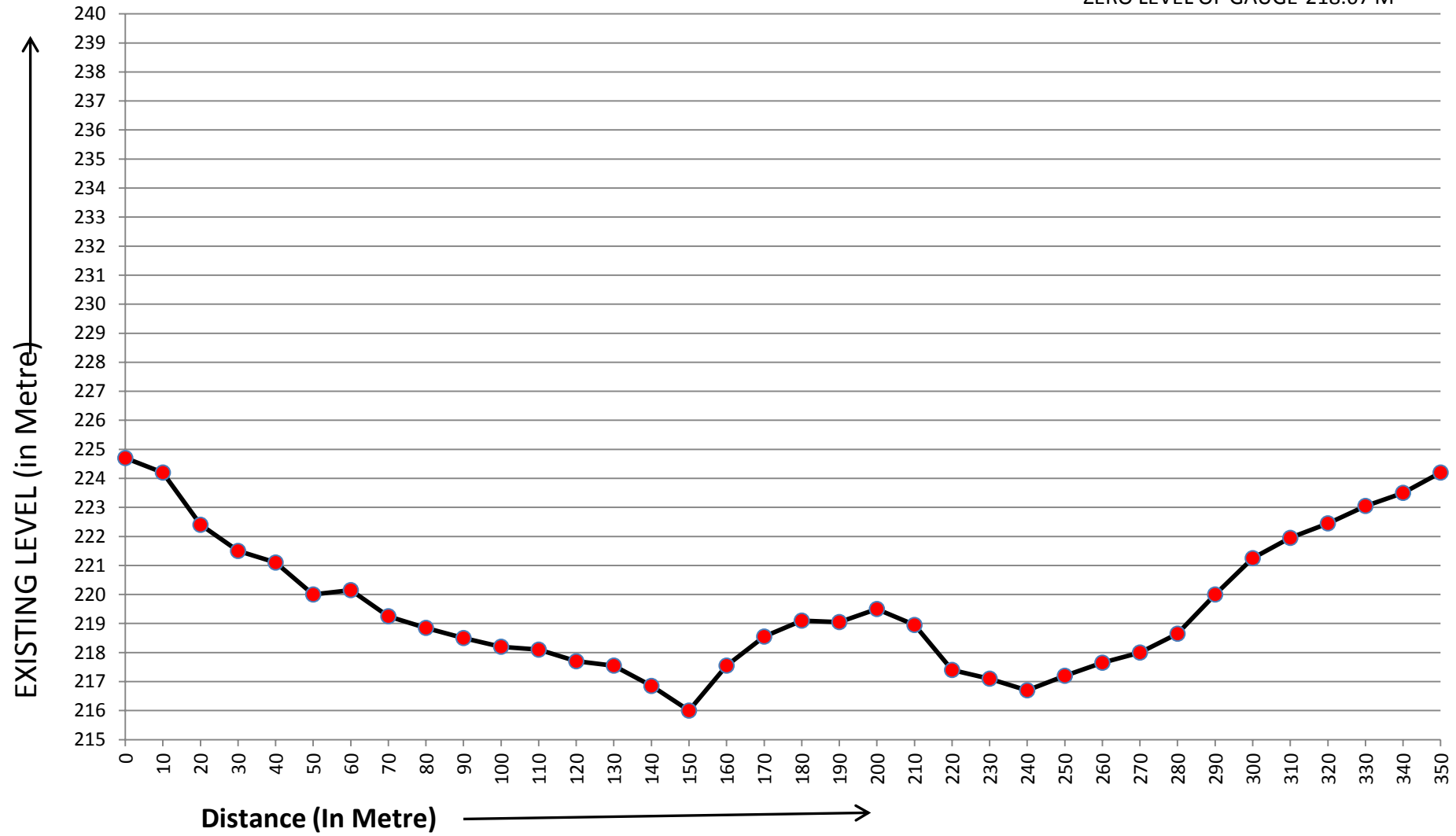
*BASIN-DAMODAR
RIVER-DAMODAR
SITE- TENUGHAT DAM D/S*



Cross Section of river at gauge station

YEAR 2012-13

BASIN-DAMODAR
RIVER-DAMODAR
SITE-TENUGHAT DAM D/S
ZERO LEVEL OF GAUGE-218.67 M



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Damodar
River- Damodar
Site- Ramgarh - Hazaribag Road

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 302.69 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	303.30	5.71	303.86	14.03	303.46	7.45	303.48	7.95	303.36	6.33
2	0.00	0.00	303.30	5.71	303.61	9.68	303.45	7.34	303.47	7.56	303.36	6.33
3	0.00	0.00	303.28	5.48	306.30	149.32	303.54	8.67	303.46	7.45	303.38	6.55
4	0.00	0.00	303.28	5.48	305.53	92.82	303.55	8.79	303.46	7.45	303.42	7.00
5	0.00	0.00	303.27	5.28	304.36	80.50	303.57	9.07	303.57	9.08	303.95	17.57
6	0.00	0.00	303.41	6.88	304.21	71.18	303.91	16.09	303.48	7.95	304.16	25.60
7	0.00	0.00	303.33	6.00	304.60	95.81	305.91	161.05	303.44	7.22	303.88	16.68
8	0.00	0.00	303.80	12.82	303.98	16.21	304.12	22.43	303.43	7.11	303.62	9.83
9	0.00	0.00	303.91	15.05	303.64	10.12	303.80	13.70	303.44	7.22	303.52	8.44
10	0.00	0.00	303.79	12.03	303.55	8.48	305.20	89.70	303.58	9.22	303.47	7.89
11	0.00	0.00	303.46	7.44	303.94	15.74	305.18	88.27	305.04	78.56	303.45	7.34
12	0.00	0.00	303.46	7.44	304.05	18.44	304.10	21.79	303.79	12.86	303.43	7.11
13	0.00	0.00	303.41	7.44	303.69	14.85	303.90	16.38	303.59	9.37	303.42	7.00
14	0.00	0.00	303.35	6.22	304.02	17.66	305.72	143.79	303.53	8.55	303.41	6.89
15	303.23	4.92	303.97	16.38	306.75	181.66	304.39	35.29	303.51	8.32	303.44	7.22
16	303.21	4.76	303.70	11.05	305.50	89.41	304.14	22.56	303.47	7.86	303.44	7.22
17	303.22	4.84	305.58	94.52	306.02	125.16	304.31	32.12	303.43	7.11	303.39	6.66
18	303.19	4.56	303.77	11.68	306.20	137.58	304.14	24.87	303.43	7.11	303.39	6.66
19	303.24	5.04	303.47	9.22	305.50	90.93	305.60	133.17	303.43	7.11	303.39	6.66
20	303.25	5.34	303.42	6.88	304.24	24.60	304.50	42.74	303.41	6.89	303.39	6.66
21	304.41	31.59	303.42	7.00	303.81	13.02	303.88	15.94	303.40	6.72	303.39	6.66
22	305.76	105.90	303.80	12.81	303.69	10.87	303.97	18.08	303.40	6.55	303.38	6.55
23	305.31	77.40	303.58	8.90	303.60	9.54	304.33	33.08	303.39	6.55	303.38	6.55
24	305.05	62.33	303.42	7.00	303.54	8.55	303.73	12.37	303.38	6.44	303.38	6.55

25	303.40	6.77	303.38	6.55	303.53	8.55	303.61	9.68	303.37	6.44	303.37	6.44
26	303.40	6.77	303.45	7.33	303.57	9.07	303.56	8.93	303.37	6.44	303.37	6.44
27	303.38	6.55	304.96	57.60	303.66	10.41	303.53	8.56	303.37	6.44	303.37	6.44
28	303.37	6.55	303.93	15.51	303.61	9.69	303.51	8.32	303.37	6.44	303.37	6.44
29	303.40	6.88	306.05	126.96	303.51	8.32	303.51	8.32	303.36	6.33	303.36	6.33
30	303.37	6.44	305.33	78.64	303.60	9.54	303.48	7.95	303.36	6.33	303.36	6.33
31			304.33	54.20	303.50	8.21			303.36	6.33		
ABSTRACT												
Max		105.90		126.96		181.66		161.05		78.56		25.60
Min		4.56		5.28		8.21		7.34		6.33		6.33

Overall Max. Discharge	181.66
Overall Min. Discharge	4.56

J.E.

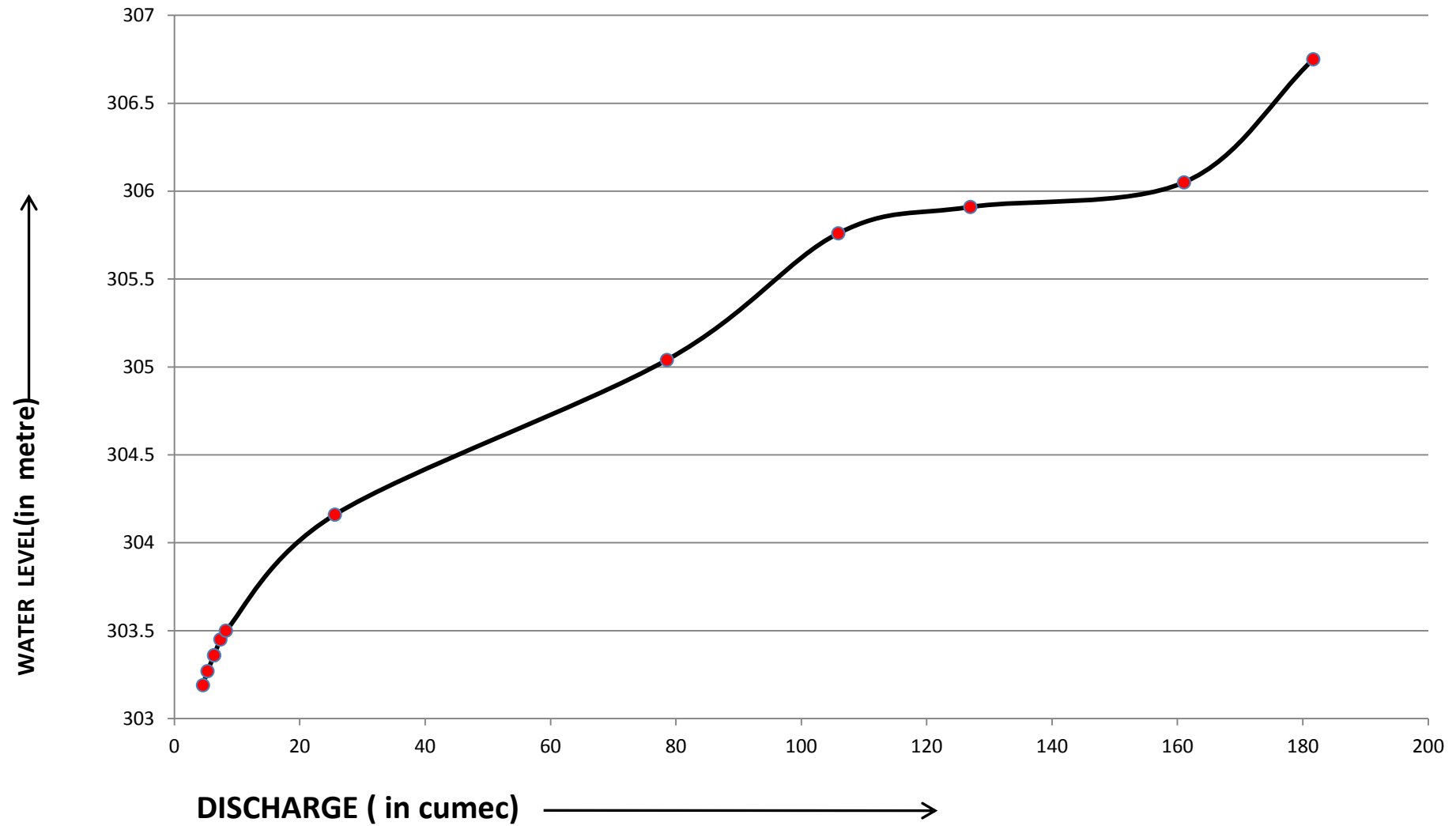
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

BASIN-DAMODAR
RIVER-DAMODAR
SITE-RAMGARH-HAZARIBAG ROAD
ZERO LEVEL OF GAUGE-302.69 M.



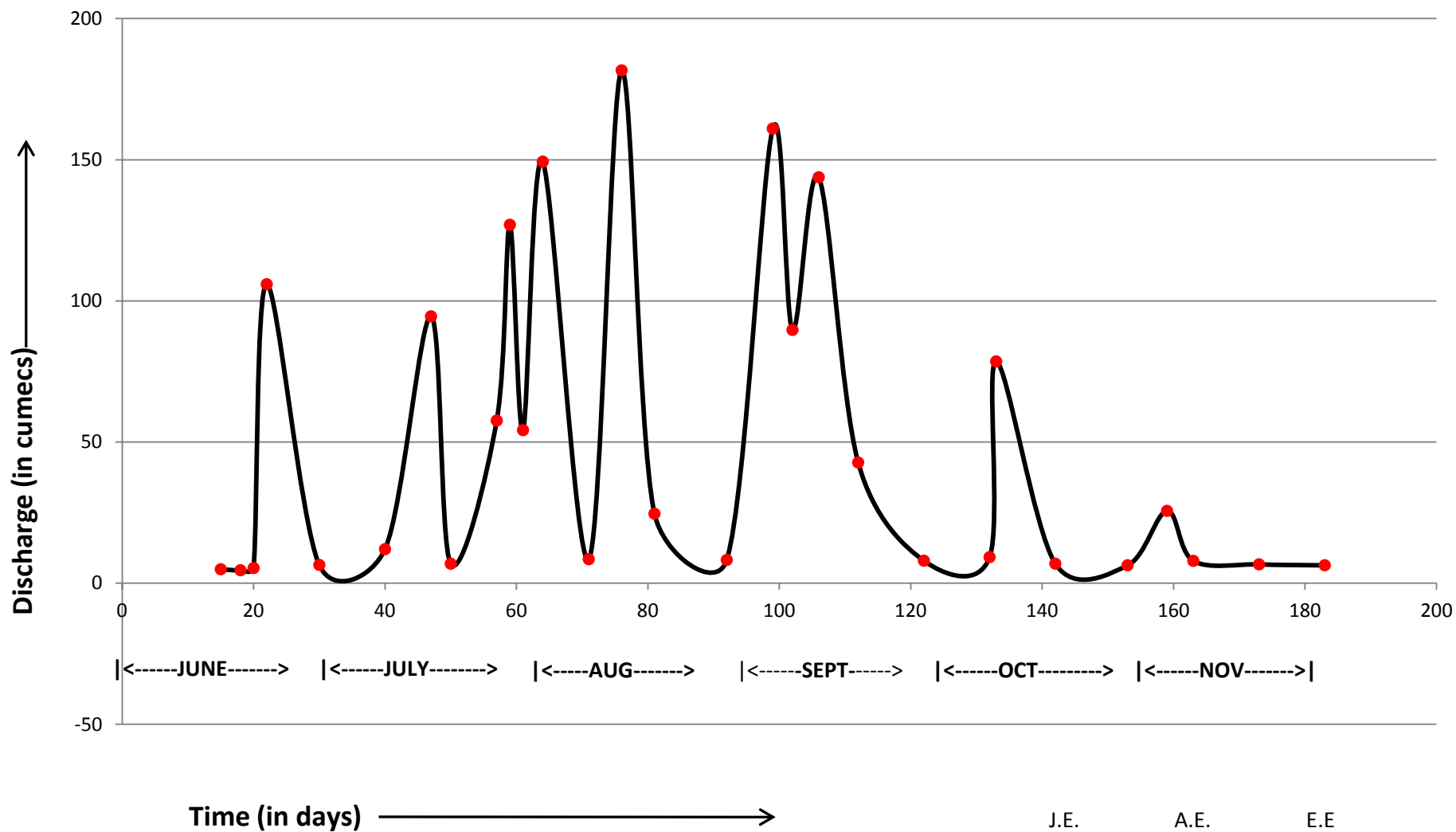
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-DAMODAR

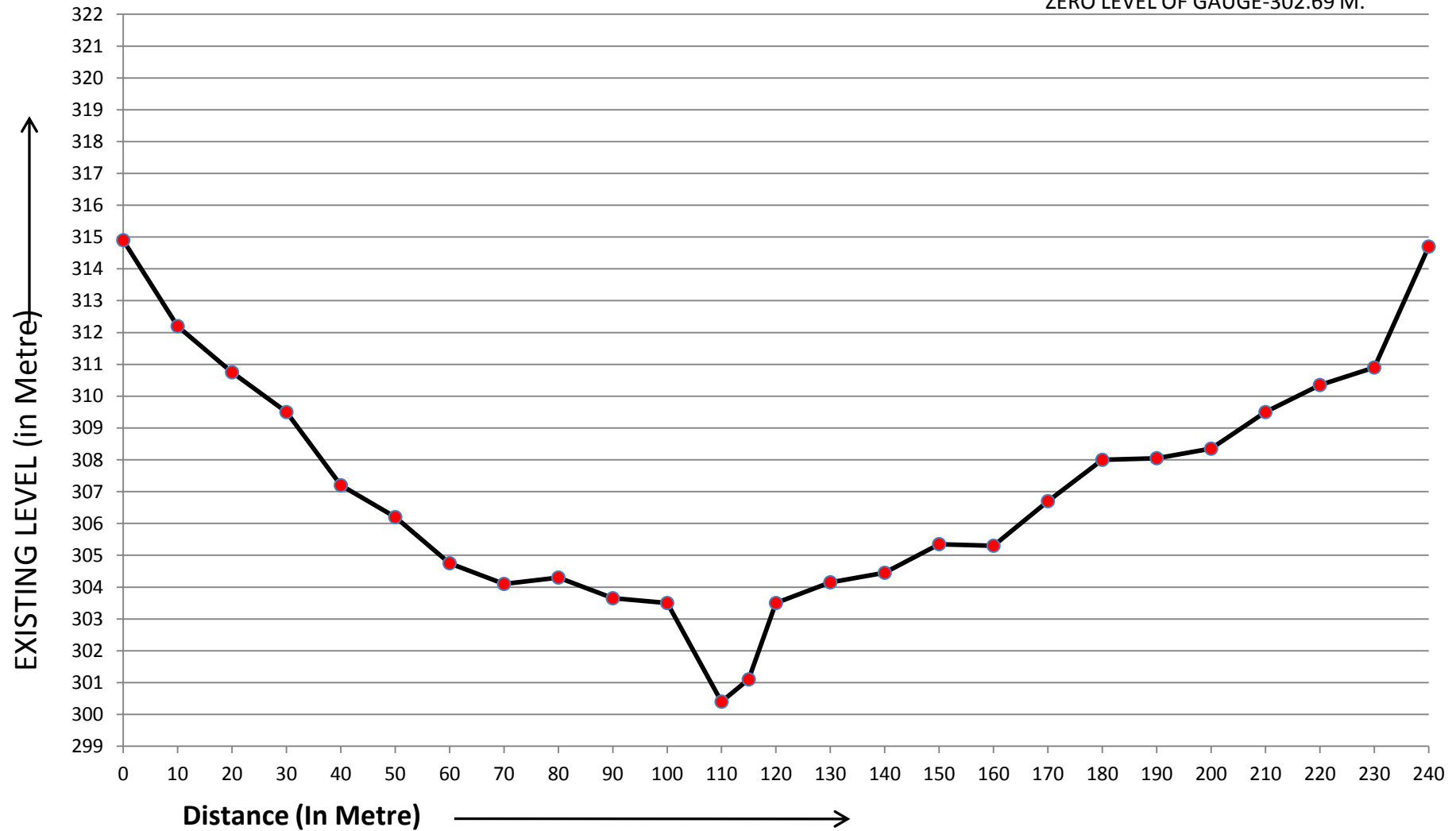
RIVER-DAMODAR

SITE- RAMGARH- HAZARIBAG ROAD



Cross Section of river at gauge station
YEAR 2012-13

BASIN-DAMODAR
RIVER-DAMODAR
SITE-RAMGARH-HAZARIBAG ROAD
ZERO LEVEL OF GAUGE-302.69 M.



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Damodar
River-Sapahi
Site- Roy

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 410.65 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	410.89	13.89	411.35	43.70	411.65	75.19	411.45	53.73	411.23	29.42
2	0.00	0.00	410.91	14.93	411.45	53.73	411.85	95.58	411.45	53.73	411.23	29.42
3	0.00	0.00	410.95	16.93	411.55	63.69	411.61	67.25	411.43	50.91	411.23	29.42
4	0.00	0.00	410.95	16.93	411.35	43.70	411.55	63.69	411.43	50.91	411.23	29.42
5	0.00	0.00	411.09	29.51	411.45	53.73	411.67	76.47	411.43	50.91	411.23	29.42
6	0.00	0.00	410.97	17.87	411.75	84.96	412.05	121.60	411.41	48.22	411.21	27.32
7	0.00	0.00	411.35	45.11	411.63	70.99	411.75	84.95	411.41	48.22	411.21	27.32
8	0.00	0.00	411.55	63.69	411.49	57.94	411.65	75.18	411.39	44.33	411.21	27.32
9	0.00	0.00	411.55	63.69	411.75	84.96	412.15	146.79	411.39	44.33	411.19	25.94
10	0.00	0.00	411.85	91.63	411.55	63.69	411.95	107.32	411.37	42.07	411.19	25.94
11	0.00	0.00	411.55	63.69	411.45	53.73	411.81	88.96	411.37	42.07	411.19	25.94
12	0.00	0.00	411.25	36.42	411.55	63.69	411.73	83.62	411.35	39.98	411.19	25.94
13	0.00	0.00	411.13	26.81	411.95	107.32	411.85	95.58	411.35	39.98	411.17	24.71
14	0.00	0.00	411.05	21.84	411.65	75.19	411.81	88.96	411.35	39.98	411.17	24.71
15	410.75	0.00	411.33	42.70	412.35	181.34	411.73	83.62	411.33	36.96	411.17	24.71
16	410.83	11.60	411.25	34.10	412.35	181.34	411.65	75.19	411.33	36.96	411.17	24.71
17	410.95	17.12	411.33	42.70	412.45	205.80	411.57	64.88	411.33	36.96	411.17	24.71
18	410.85	13.24	411.55	63.69	412.35	181.34	411.51	61.32	411.31	35.10	411.15	23.43
19	410.95	17.12	411.55	63.69	411.95	107.32	411.45	53.73	411.31	35.10	411.15	23.43
20	410.93	16.08	411.33	42.70	411.80	88.29	411.45	53.73	411.31	35.10	411.15	23.43
21	411.05	21.84	411.25	36.42	411.65	75.18	411.43	52.62	411.31	35.10	411.15	23.43
22	411.03	20.62	411.23	34.49	411.95	107.32	411.43	52.62	411.29	33.38	411.13	22.26
23	410.89	13.89	411.19	31.71	411.75	84.94	411.43	52.62	411.29	33.38	411.13	22.26
24	410.95	17.12	411.10	25.31	411.70	78.39	411.43	52.62	411.29	33.38	411.13	22.26

25	410.85	12.72	411.05	21.84	411.65	75.19	411.41	48.22	411.27	31.70	411.11	21.13
26	410.83	11.60	411.11	25.31	411.55	63.69	411.41	48.22	411.27	31.70	411.11	21.13
27	410.81	10.99	411.25	36.42	411.47	58.60	411.41	48.22	411.27	31.70	411.11	21.13
28	410.95	17.12	411.19	31.71	411.39	48.77	411.41	48.22	411.25	30.20	411.09	20.02
29	410.87	13.71	411.15	28.36	411.45	53.73	411.41	48.22	411.25	30.20	411.09	20.02
30	410.81	10.99	411.25	36.42	411.47	58.60	411.47	56.80	411.25	30.20	411.09	20.02
31	-	-	411.23	35.48	411.43	52.62	-	-	411.25	30.20	-	-
ABSTRACT												
Max		21.84		91.63		205.80		146.79		53.73		29.42
Min		10.99		13.89		43.70		48.22		30.20		20.02

Overall Max. Discharge	205.80
Overall Min. Discharge	10.99

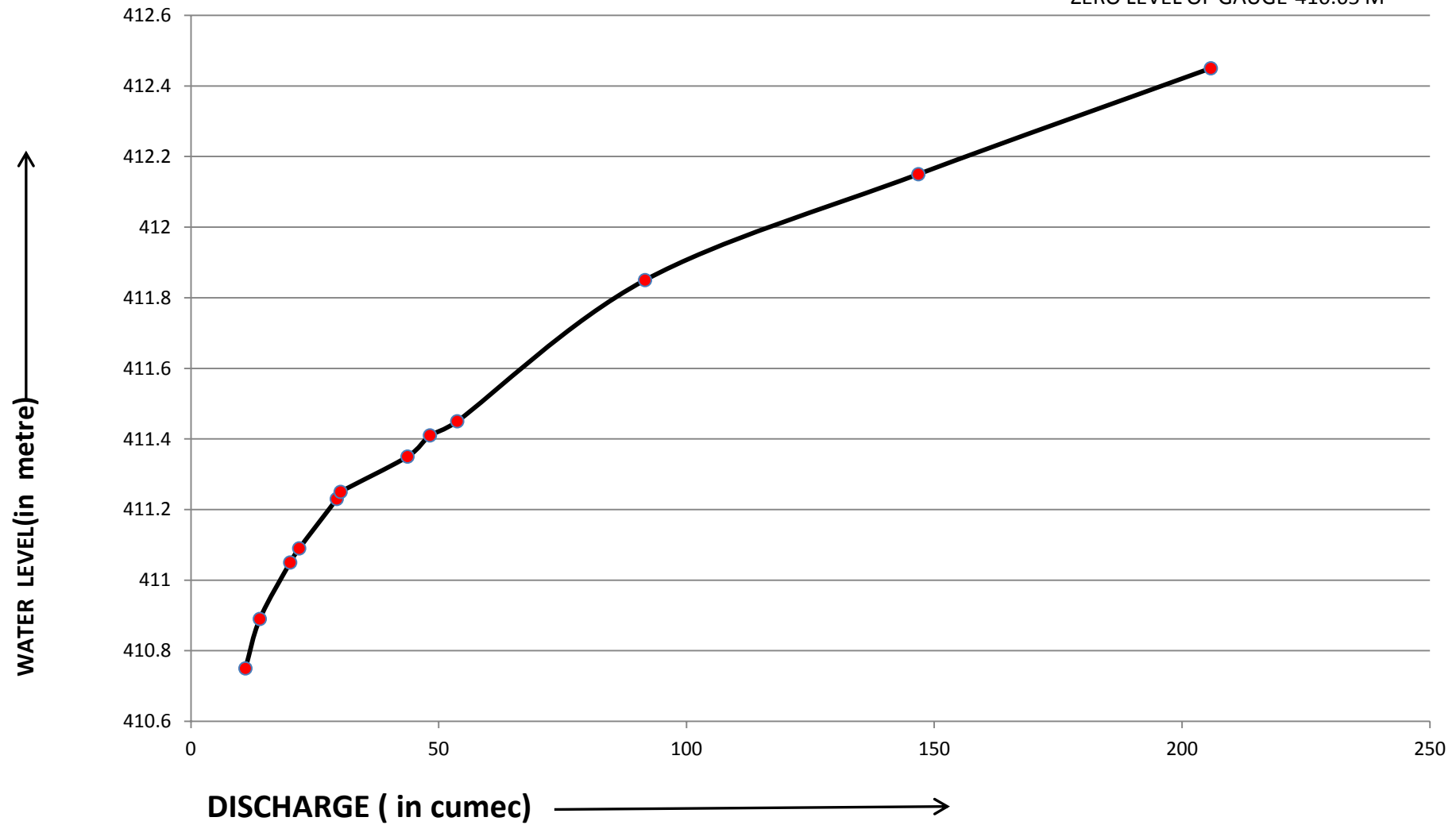
J.E.

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E.E.

STAGE GRAPH
YEAR 2012-13

BASIN-DAMODAR
RIVER-SAPAHI
SITE-ROY
ZERO LEVEL OF GAUGE-410.65 M



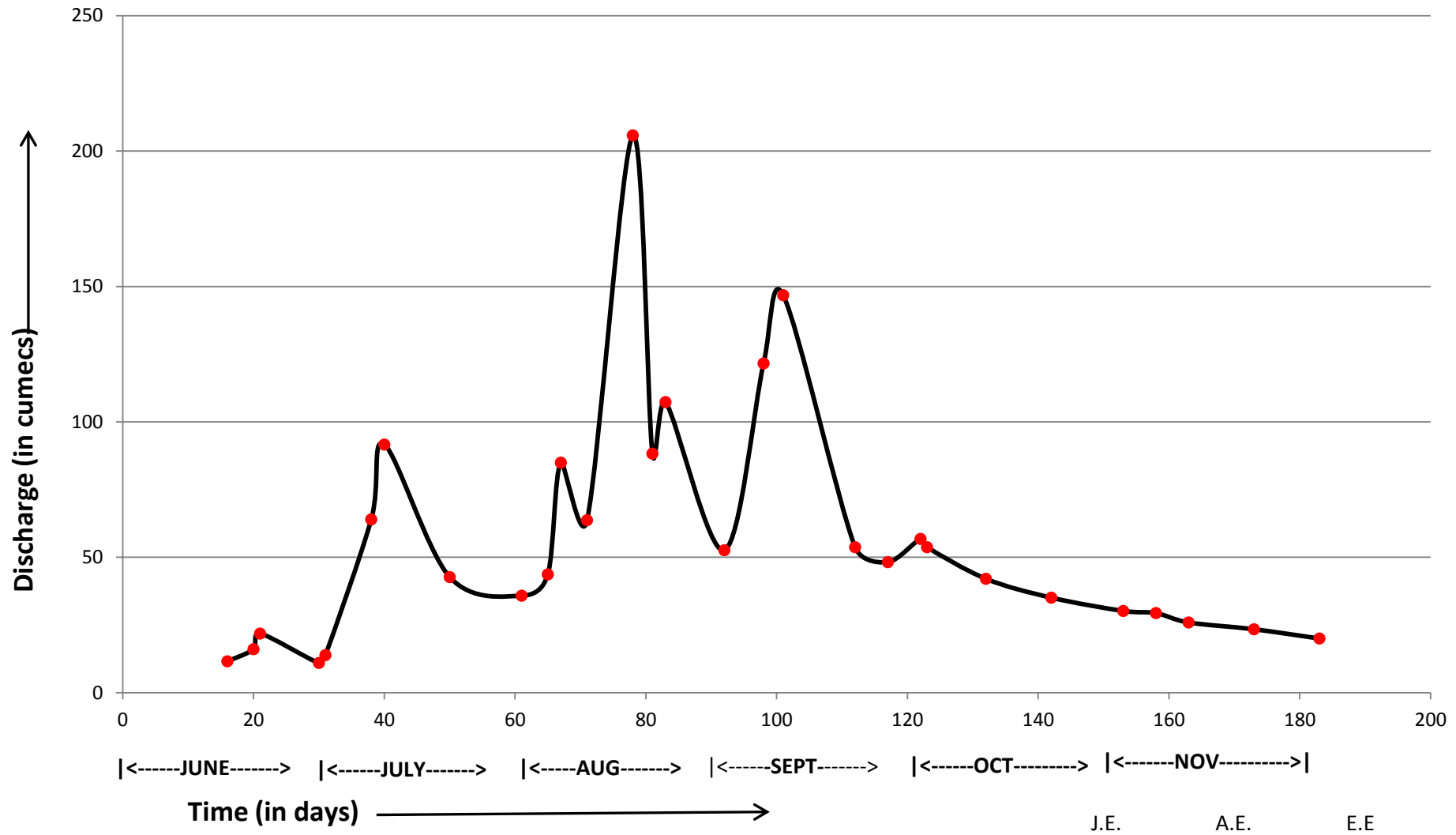
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-DAMODAR

RIVER-SAPAHI

SITE- ROY



Cross Section of river at gauge station

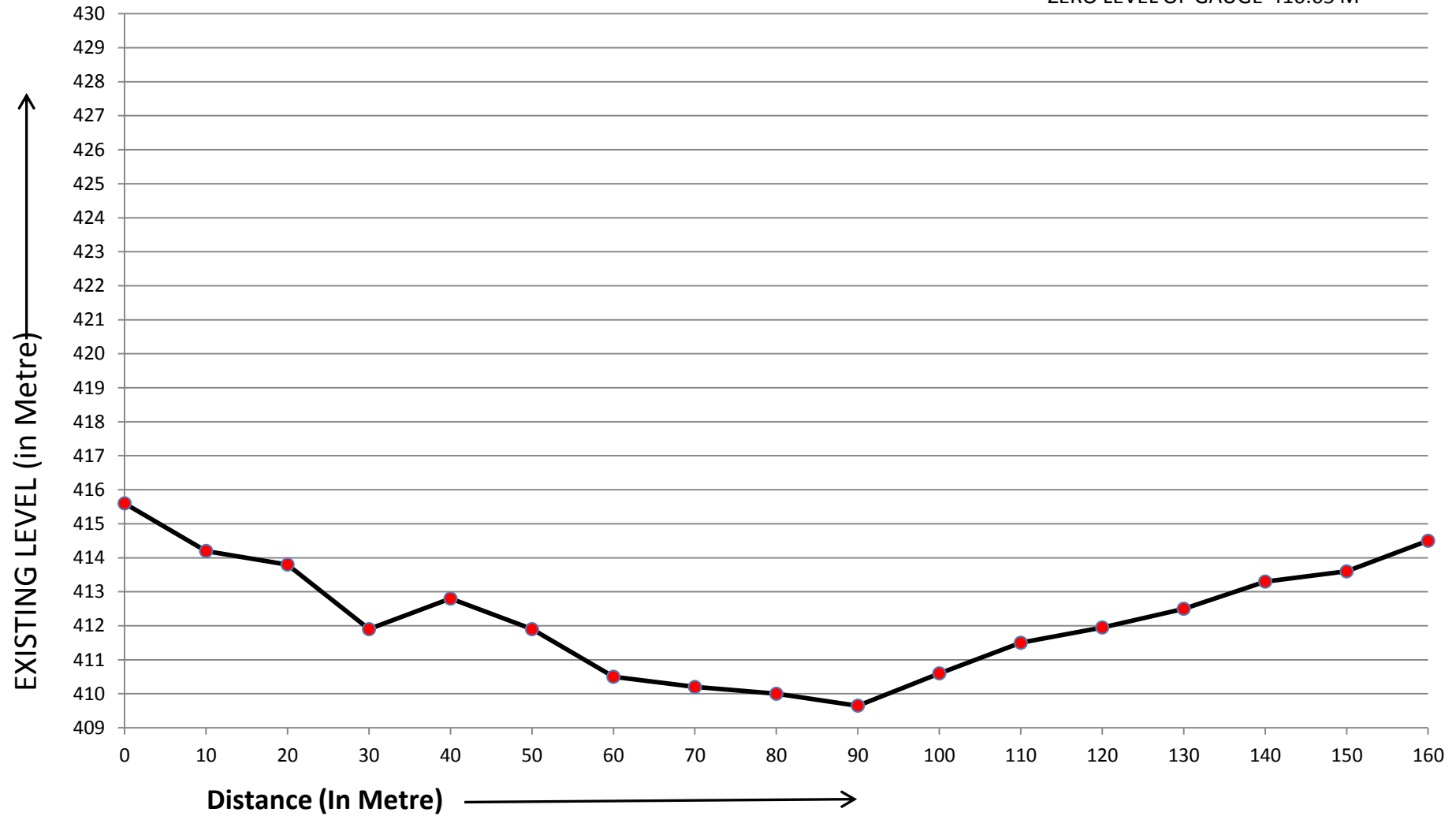
YEAR 2012-13

BASIN-DAMODAR

RIVER-SAPAH

SITE-ROY

ZERO LEVEL OF GAUGE-410.65 M



WATER LEVEL DISCHARGE DATA

Year - 2012-13

Basin -Damodar
River- Barakar
Site- Giridih Tundi Road

Unit of Water Level (WL) in M
Unit of Discharge m³/ Sec.
Zero Level of the gauge - 190.82 M

Date	June- 2012		July -2012		August -2012		Sept. -2012		Oct. -2012		Nov. -2012	
	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.	W.L.	Discharg.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	0.00	0.00	191.27	9.30	192.32	113.23	191.96	53.58	192.57	183.92	191.62	25.90
2	0.00	0.00	191.32	10.50	192.32	113.23	192.07	66.81	192.42	135.05	191.68	30.71
3	0.00	0.00	191.37	12.40	192.42	142.45	192.17	90.54	192.27	111.09	191.77	37.63
4	0.00	0.00	191.42	14.40	192.52	160.80	192.27	111.09	192.12	86.81	191.87	43.86
5	0.00	0.00	191.52	19.38	192.47	154.40	192.47	154.40	191.97	54.58	191.94	54.28
6	0.00	0.00	191.57	22.68	192.40	132.97	192.62	212.67	191.97	54.58	191.97	53.36
7	0.00	0.00	191.62	25.20	192.32	113.23	192.77	268.62	192.12	86.81	191.87	43.86
8	0.00	0.00	191.67	27.00	192.24	105.20	192.92	306.36	192.17	90.54	191.70	28.80
9	0.00	0.00	191.72	30.71	192.22	103.18	192.97	339.09	191.92	50.60	191.67	27.75
10	0.00	0.00	191.77	34.20	192.26	109.71	192.77	268.62	191.90	48.15	191.62	25.90
11	0.00	0.00	191.90	44.10	192.30	110.55	192.57	183.92	191.72	34.86	191.58	22.40
12	0.00	0.00	191.92	48.40	192.32	113.23	192.47	148.61	191.62	28.00	191.54	21.00
13	0.00	0.00	191.92	48.40	192.39	131.40	192.41	133.59	191.52	21.66	191.50	19.44
14	0.00	0.00	191.82	37.83	192.47	148.61	192.36	113.75	191.42	18.45	191.47	16.00
15	0.00	0.00	191.72	30.71	192.52	164.82	192.27	111.09	191.35	13.68	191.41	14.08
16	0.00	0.00	191.67	27.00	192.57	190.19	192.17	90.54	191.32	11.55	191.37	12.40
17	0.00	0.00	191.62	25.20	192.62	212.67	192.07	66.81	191.27	9.92	191.33	11.16
18	0.00	0.00	191.57	22.68	192.72	258.63	191.97	54.50	191.22	8.10	191.29	9.60
19	191.12	5.40	191.52	19.38	192.77	268.62	191.97	54.50	191.17	7.13	191.24	8.41
20	191.27	9.30	191.57	22.68	192.92	339.09	192.07	66.82	191.15	5.94	191.20	7.25
21	191.32	10.50	191.62	25.20	193.07	393.96	192.17	90.54	191.10	4.94	191.17	7.13
22	191.27	9.30	191.67	27.00	192.92	339.09	192.32	113.26	191.07	4.16	191.15	5.94
23	191.17	7.13	191.72	30.71	192.77	295.24	192.48	145.58	191.02	3.38	191.13	5.40
24	191.07	4.16	191.77	34.20	192.62	212.68	192.62	212.66	191.02	3.38	191.10	4.94

25	191.02	3.38	191.82	37.83	192.50	148.50	192.77	268.62	191.07	4.16	191.09	4.68
26	191.10	5.13	191.87	42.84	192.42	135.05	192.92	339.09	191.27	9.92	191.07	4.16
27	191.12	5.40	191.97	54.52	192.32	113.26	193.07	393.96	191.29	11.55	191.05	3.64
28	191.22	7.83	192.02	58.28	192.25	105.86	193.07	393.96	191.35	13.68	191.02	3.38
29	191.27	9.30	192.07	66.81	192.17	90.54	192.87	300.44	191.47	23.00	191.02	3.38
30	191.22	7.83	192.12	86.18	192.07	66.81	192.67	218.50	191.47	23.00	190.99	3.12
31	-	-	192.22	103.18	192.00	57.34	-	-	191.57	23.90	-	-
ABSTRACT												
Max		10.50		103.18		393.96		393.96		183.92		54.28
Min		3.38		9.30		57.34		53.58		3.38		3.12

Overall Max. Discharge	393.96
Overall Min. Discharge	3.12

J.E.

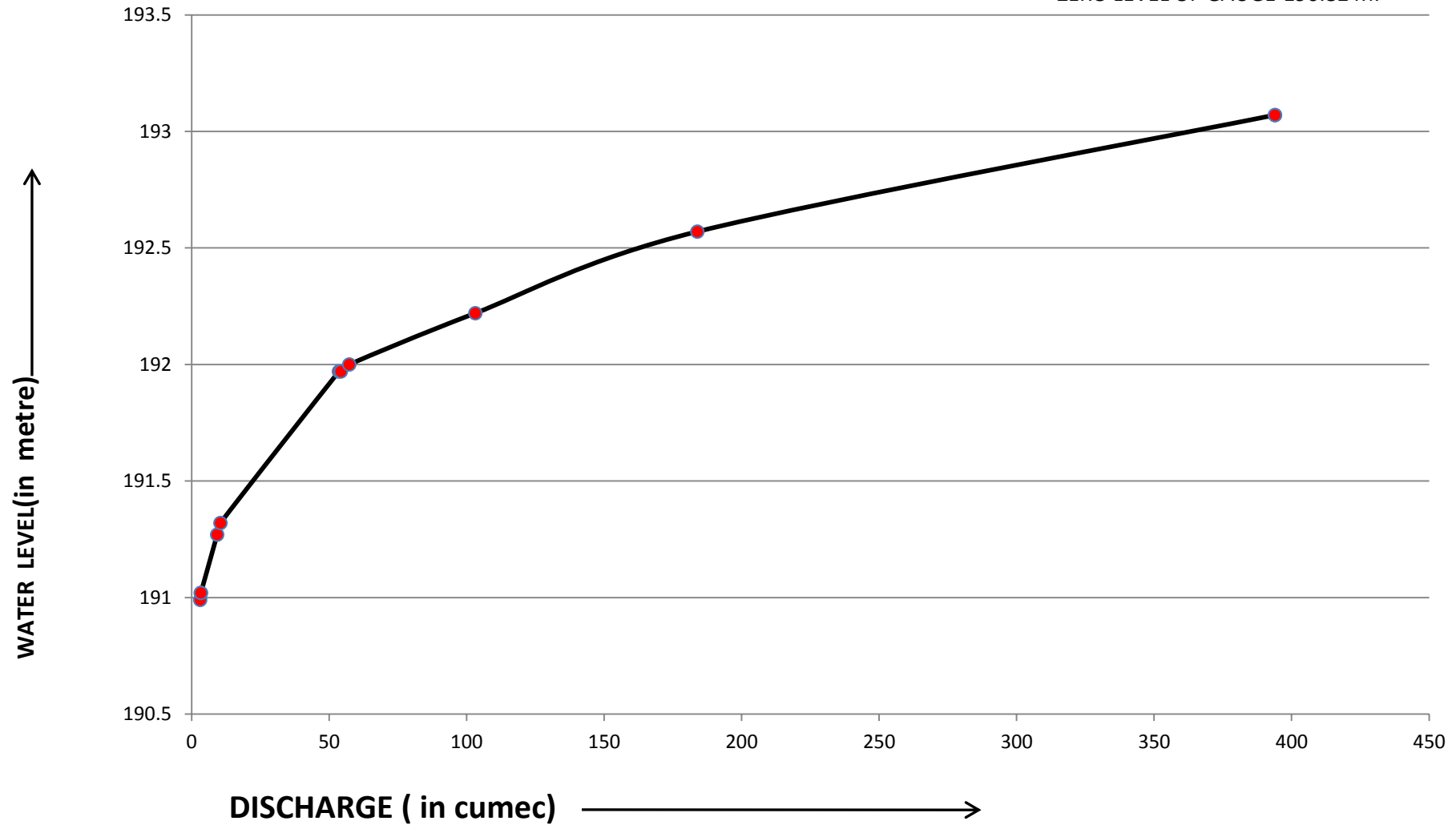
A.E.

E.E.

STAGE GRAPH

YEAR 2012-13

BASIN-DAMODAR
RIVER-BARAKAR
SITE-GIRIDIH-TUNDI ROAD
ZERO LEVEL OF GAUGE-190.82 M.



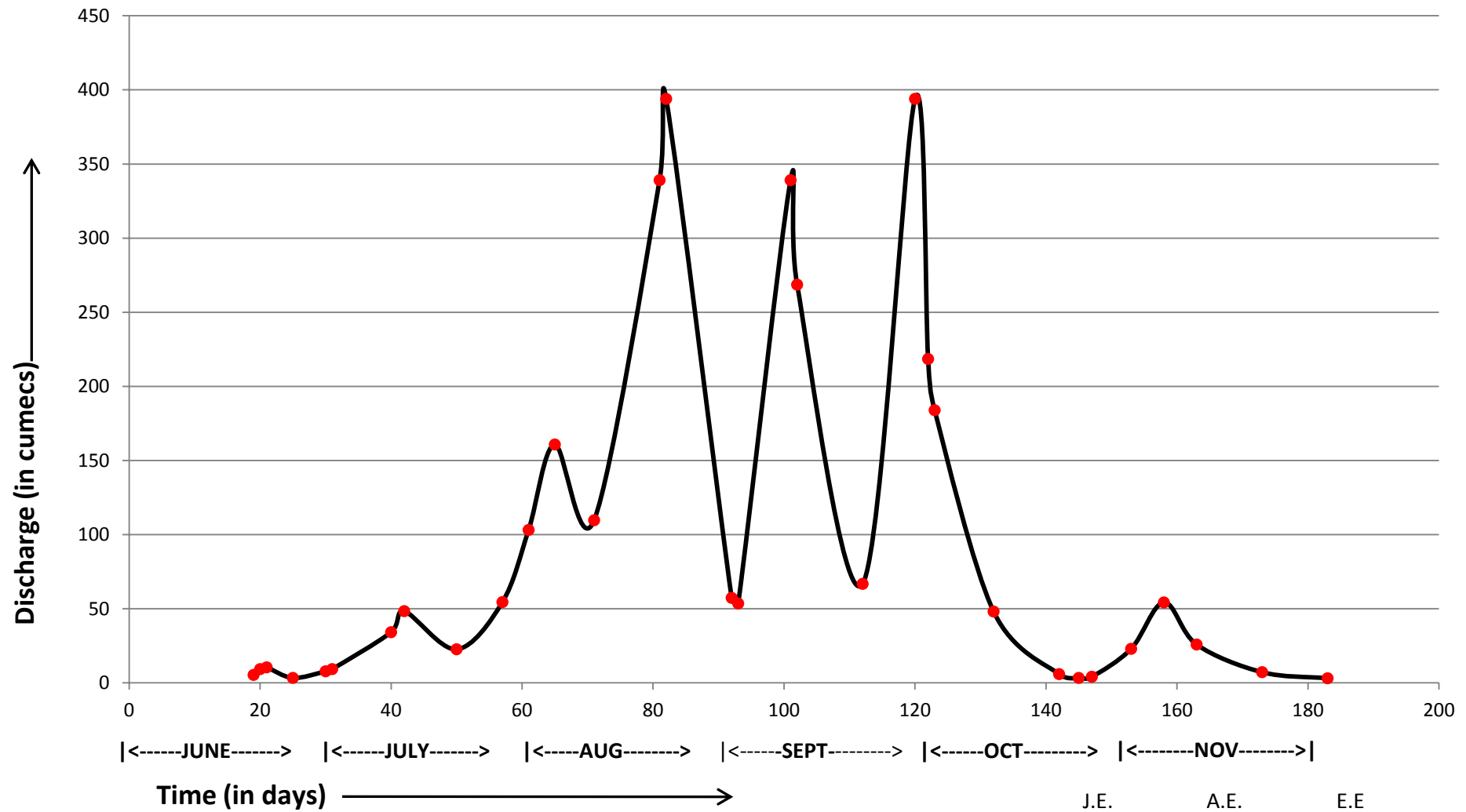
STORM HYDROGRAPH

YEAR: 2012-13

BASIN-DAMODAR

RIVER-BARAKAR

SITE- GIRIDIH -TUNDI ROAD



Cross Section of river at gauge Station
YEAR 2012-13

BASIN-DAMODAR
RIVER-BARAKAR
SITE-GIRIDIH-TUNDI ROAD
ZERO LEVEL OF GAUGE-190.82 M.

