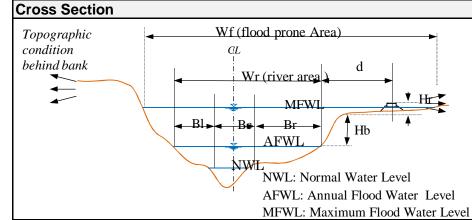
			Inventory Sheet	for River/Channel
Stati	on:From KM305 t	o KM306	Sheet No.: CH- KM 305	Photo Upstr
1. Ge	neral			-
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud	
	Organization of Ins	pector	River Group D	
1-3	Date/Time of Inspe	ction	Dec. 4, 2014	
1-4	Location	Lat	6° 43′ 38″ 05‴	
1-5		Long	36° 50′ 33″ 85‴	
			tion of River Channel	
2-1	Length of Objective	Area		
2-2	Nos. of River Facilit	.y	1 Bridge	Location
2-3	River Channel Aligr	nment	Meandering , Water Hit Area	
2-4	River Cross Section	1	Compound Section	
2-5	River Width		Wf: m, Wr: m Bl: m, Bc: 128 m, Br: m	Magac
2-6	Riverbed Slope			magac
2-7	Riverbed Material	Material	Sand	
2-8		Bank Height		
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:	
2-10		Vegetation		
2-11	Estimated Flow Vel	ocity	normal: m/s, flood m/s	
2-12	Characteristic of en condition of river ch		Riverside fores , Sandbar, Pool, shoal, fishes, etc	231 ≈
2-13	Land Use		none	
2-14	Soil Type			Cross Section
2-15	Topography		left: ← ,right →	Topographic -
2-16	Structures/Houses,	road	none	condition
2-17	Location of Railway	,	d = 40 m	behin <u>d</u> bank
2-18	Damaged Record, if any (year/month)	broken by flo	of right side tributary had been ood in 2010. The bridge had been	
2-19	Reason of			
2-20	Pattern of Riverbed			

1 1111017 01101111101	
Photo Upstream	Photo Downstream





			Inventory Shee
Stati	on:From KM306 t	o KM307	Sheet No.: CH- KM 306
1. Ge	eneral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 4, 2014
1-4	Location	Lat	6° 43′ 05″ 07‴
1-5		Long	36° 50′ 24″ 49‴
2. Ch	aracteristics of Ph	ysical Condi	ition of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
2-3		•	Meandering , Water Hit Area
2-4	River Cross Section	n	Compound Section
٥.	Divor Midth		Wf: m, Wr: m
2-5	River Width		BI: m, Bc: 112 m, Br: m
2-6	Riverbed Slope		,
2-7	Riverbed Material	Material	Sand
2-8		Bank Heigh	
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12	Characteristic of er condition of river ch		Riverside foreste, Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
	Structures/Houses	, road	none
2-17	Location of Railway	У	d = 75 m
2-18	Damaged Pecerd		
	Reason of		
2-20	Pattern of Riverbed		

Photo Upstream	n Photo Downstream
ocation	
	S6" 4251"
	W. Ker
E 36° 50'6"	
	E 36° 50'42"
	306.1km (Phoro 499)
	S 6° 43'30 maze 2014 Outsid to 66m
210 =-	Googlee
Cross Section	
Topographic -	Wf (flood prone Area)
condition behind bank	CL
denina bank	Wr (river area
	MFWI HE
\	Bl → Br → Hb
	AFWL •
	NWL: Normal Water Level
	AFWL: Annual Flood Water Level
	MFWL: Maximum Flood Water Level

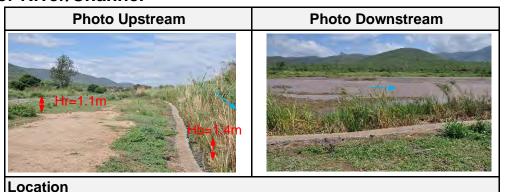
			Inventory Sheet
Stati	on: From KM307	to 308	Sheet No.: CH- KM 307
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 4, 2014
1-4	Location	Lat	6° 42′ 59″ 86‴
1-5		Long	36° 50′ 22″ 87‴
2. Ch	aracteristics of Ph	ysical Condi	ition of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
	River Channel Alig	•	Meandering , Water Hit Area
	River Cross Section		Compound Section
			Wf: m, Wr: m
2-5	River Width		BI: m, Bc: 77 m, Br: m
2-6	Riverbed Slope		, ,
	Riverbed Material	Material	
2-8		Bank Height	HI: 3 m
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12			Riverside forests, Sandbar, Pool,
	condition of river channel		shoal, fishes, etc
2-13	Land Use		none
	Soil Type		
	Topography		left: ← ,right —→
	Structures/Houses	road	none
	Location of Railway		d = 130 m
	Damaged Record		
2-19			
2-20	Pattern of Riverbed		

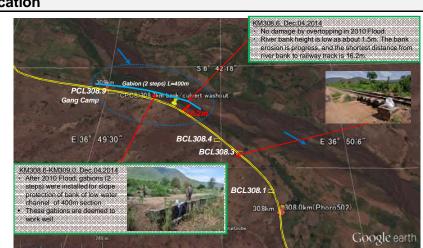
Photo Upst	ream Photo Do	wnstream
tion		
30 8io	m /308.0xm/Phoro5021	
	The state of the s	
1 1		
	(<u>-</u>	
	16. 6° 42.54	
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	E 36 50 6 50 6	
	E. 36 50 6 20 50 6	
	307km	
244		Googles
244-	307km	Google
I de I	307km	Google
I de I	307km	Google
s Section	30 7km 30 7km Image = 50 14 Queta Globe	Google
s Section ographic	Wf (flood prone Area)	Google
ss Section ographic lition	Wf (flood prone Area)	Google
ss Section ographic dition	Wf (flood prone Area) CL	Google
ss Section ographic dition ind bank	Wf (flood prone Area)	Google

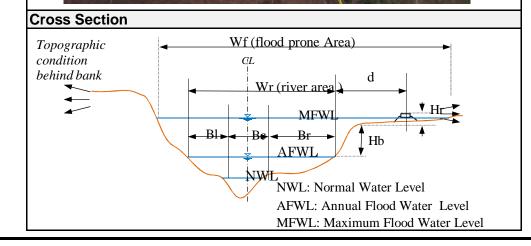
NWL: Normal Water Level

AFWL: Annual Flood Water Level MFWL: Maximum Flood Water Level

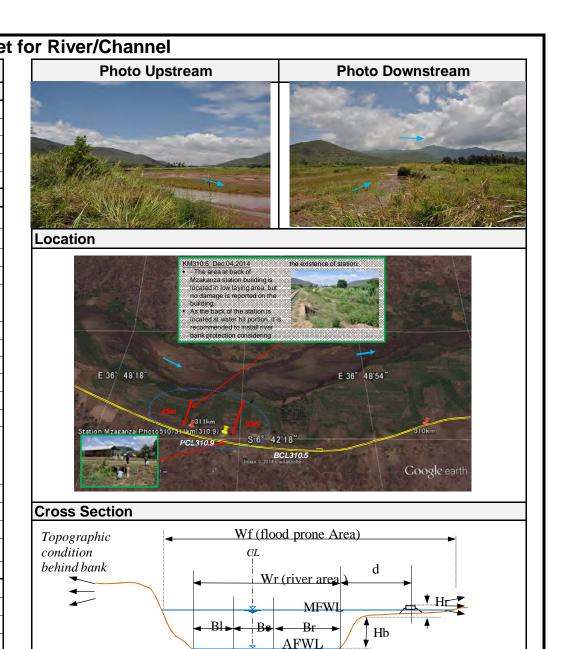
			Inventory Sheet f	for River/Channel
Stati	on: From KM308-	KM309	Sheet No.: CH-308	Photo Upsti
1. Ge	eneral			
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo	
	Organization of Ins	pector	Team B	
1-3	Date/Time of Inspe	ction	Dec. 4, 2014 1027	A Hr−1 1m
1-4	Location	Lat	06° 42' 26.1"	1 111-11111
1-5		Long	36° 49' 43.0"	
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel	
2-1	Length of Objective	Area	L=400m, Km308.5-Km308.9	
2-2	Nos. of River		Gabion 2steps	Location
2-3	River Channel Aligr	nment	Straight, water hit area	//2
2-4	River Cross Section	1	compund	
2-5	River Width		Wf: m, Wr: approx.150m Bl: m, Bc: m, Br: m	2004
2-6	Riverbed Slope		Gentle	PCL308.9 Gang Camp
2-7		Material	Sand	Gang Camp
2-8			Hb: 1.5-2.5 m, Hr=1.1m	E 200 (10/20)
	River Bank		·	E 36°/49'30"
2-10		Vegetation	Grass & trees	KM308:6-KM309:0: Dec:04:2014
2-11	Estimated Flow Vel	ocity	normal: 0.5 m/s, flood m/s	 After 2010 Flood, gabions (2 steps) were installed for slope
2-12	Characteristic of en condition of river ch		Riverside forests, Sandbar, Pool, shoal, fishes, etc	protection of bank of low water channel of 400m section. These gabions are deemed to work well.
2-13	Land Use		Cultivation of onion	
2-14	Soil Type		Black	Cross Section
	Topography		left: ← ,right →	Topographic -
2-16	Structures/Houses,	road	none	condition
2-17	Location of Railway	,	d= 16.2m@Km308.6	behind bank
		After damad	led by 2010 flood,	
	Damaged Record,		abions were constructed.	
2-18	if any (year/month)			
2-19	Reason of	Bank erosion	n	
2-20	Pattern of Riverbed		erbed in long distance	







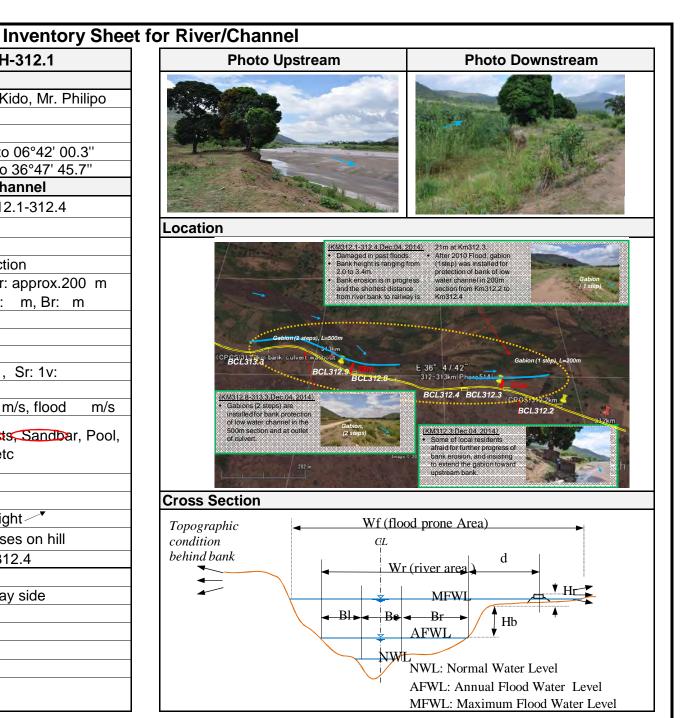
			Inventory Shee
Stati	on: From KM310.	9	Sheet No.: CH-310
1. Ge	neral		
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo
1-2			Team B
1-3	Date/Time of Inspe	ction	Dec. 4, 2014 1140
1-4	Location	Lat	
1-5		Long	
			tion of River Channel
2-1	Length of Objective	Area	L=200m, KM310.9-311.1
2-2	Nos. of River		None
2-3	River Channel Aligr	nment	Straight, water hit area
2-4	River Cross Section	า	Compound section
2-5	River Width		Wf: m, Wr: m
2-5	River width		BI: m, Bc: m, Br: m
2-6	Riverbed Slope		Gentle
2-7	Riverbed Material	Material	Sand
2-8			HI: 1.3-4.3 m
2-9	River Bank	Side Slope	SI: 1v: 3.0 , Sr: 1v:
2-10		Vegetation	Grass
2-11	Estimated Flow Vel	ocity	normal: m/s, flood m/s
2-12	Characteristic of en	vironmental	Riverside forests, Sandbar, Pool,
2-12	condition of river ch	nannel	shoal, fishes, etc
2-13	Land Use		Cultivation of onion
2-14	Soil Type		Black
	Topography		left: ← ,right →
	Structures/Houses,	road	Station & residential houses
2-17	Location of Railway	/	d= 21m@Km312.4
		Bank erosion	n is progressive,
	Damaged Record,	but no serio	us fllod damage is repoted.
2-18	if any (year/month)		
	in any (year/montin)		
2-10	Reason of		
	Pattern of		
2-20	Riverbed	Rising of rive	erbed in long distance



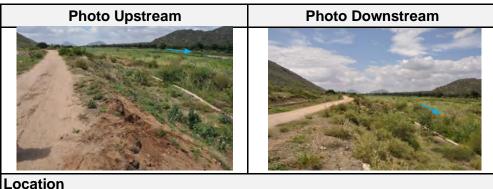
NWL: Normal Water Level

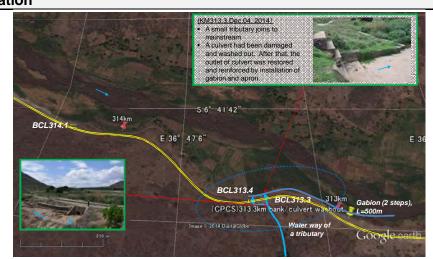
AFWL: Annual Flood Water Level MFWL: Maximum Flood Water Level

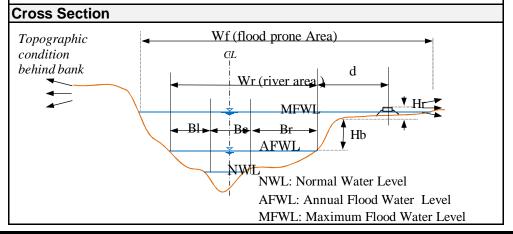
			Inventory Shee
Stati	on: From KM312.	1 to 312.4	Sheet No.: CH-312.1
1. Ge	neral		
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo
1-2	Organization of Ins	pector	Team B
1-3	Date/Time of Inspe	ction	Dec. 4, 2014
1-4	Location	Lat	06° 42' 00.7" to 06°42' 00.3"
1-5		Long	36° 47' 54.7" to 36°47' 45.7"
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel
2-1	Length of Objective	Area	L=300m, KM312.1-312.4
2-2	Nos. of River		Gabion, 1step
2-3	River Channel Aligr	nment	Meandering
2-4	River Cross Section)	Compound section
2.5	River Width		Wf: m, Wr: approx.200 m
2-5	River width		BI: m, Bc: m, Br: m
2-6	Riverbed Slope		Gentle
2-7	Riverbed Material	Material	sand
2-8		Bank Height	HI: 2.0 m
2-9	River Bank	Side Slope	SI: 1v: 2.0 , Sr: 1v:
2-10		Vegetation	grass
2-11	Estimated Flow Vel	ocity	normal: 0.5 m/s, flood m/s
	Characteristic of en	vironmental	Riverside forests, Sandbar, Pool,
2-12	condition of river ch		shoal, fishes, etc
2 12	Land Use		none
	Soil Type		Brown
	Topography		left: ← ,right ✓
		rood	, 5
	Structures/Houses,		residential houses on hill d= 21m@Km312.4
2-17	Location of Railway	/	u= 21111@K11312.4
		Progress of	erosion to railway side
2-18	Damaged Record,	1. 1091000 01	orodon to ranway diad
	if any (year/month)		
2-19	Reason of	bank erosioi	า
2-20	Pattern of		
2-20	Riverbed		



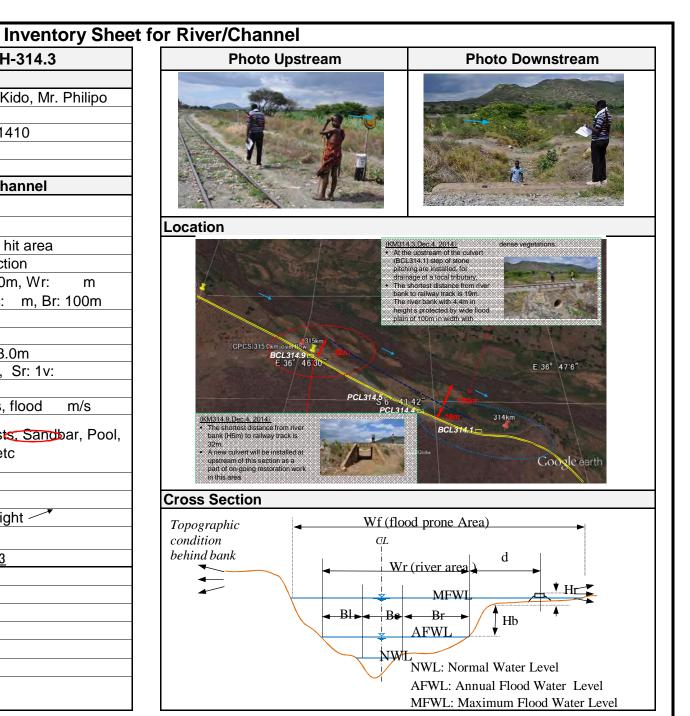
			Inventory Sheet	for River/Channel
Stati	on: From KM312.	8 to 313.3	Sheet No.: CH-312.8	Photo Upsti
1. Ge	eneral			
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo	
1-2	Organization of Ins	pector	Team B	
1-3	Date/Time of Inspe	ction	Dec. 4, 2014 1310	
1-4	Location	Lat	06° 42' 00.0" to 59.6"	
1-5		Long	36° 47' 31.1" to 28.8"	
			tion of River Channel	
2-1	Length of Objective	e Area	5m, Km312.8-313.3	4/13/20
2-2	Nos. of River		Gabion(2 steps), Culvert (2 nos.)	Location
2-3	River Channel Aligi	nment	Meandering, water hit aera	
2-4	River Cross Section	n		
2-5	River Width		Wf: m, Wr: m BI: m, Bc: m, Br:3.0 m	
2-6	Riverbed Slope		Gentle	
2-7	Riverbed Material	Material	Sand	3
2-8		Bank Heigh		BCL314.1
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:	
2-10		Vegetation	none	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s	
2-12	Characteristic of er condition of river ch		Riverside forests, Sandbar, Pool, shoal, fishes, etc	200, m
2-13	Land Use		none	
2-14	Soil Type			Cross Section
2-15	Topography		left: ← ,right ✓	Topographic -
2-16	Structures/Houses,	road		condition
2-17	Location of Railway	/		behind bank
		Gabions (2 st	eps) are installed for bank protection	
	I Damaged Record L		channel in the 500m section	
2-18			of culvert.	
2-19	Reason of			
2-20	Pattern of Riverbed			



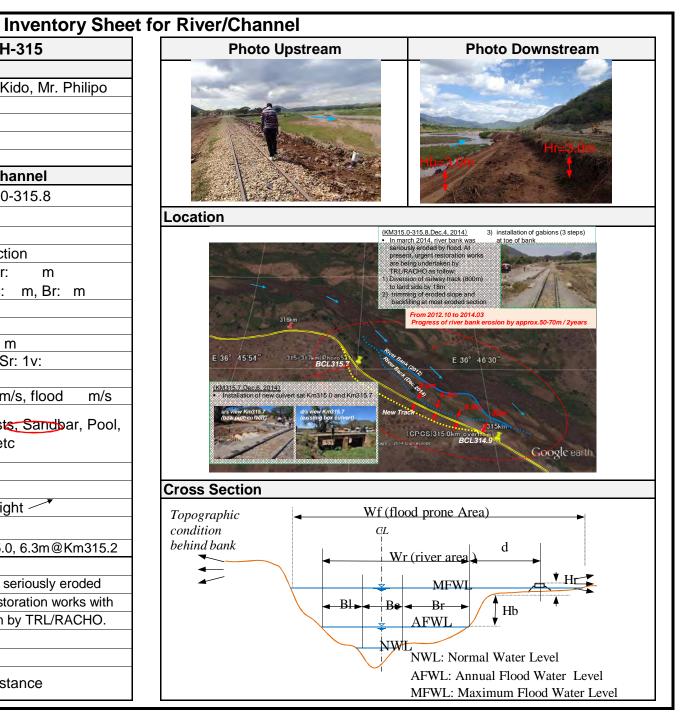




			Inventory Shee
Stati	on: From KM314.	3	Sheet No.: CH-314.3
1. Ge	neral		
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo
1-2	Organization of Ins	pector	Team B
1-3	Date/Time of Inspe	ction	Dec. 4, 2014 1410
1-4	Location	Lat	06° 41' 44.0"
1-5		Long	36° 46' 47.1"
			tion of River Channel
	Length of Objective	Area	
2-2	Nos. of River		
2-3	River Channel Aligi	nment	Straight, water hit area
2-4	River Cross Section	า	Compound section
2-5	River Width		Wf: approx.500m, Wr: m
2-3	Triver vvidin		Bl: m, Bc: m, Br: 100m
2-6	Riverbed Slope		Gentle
2-7	Riverbed Material	Material	Sand
2-8			Hr: 1.4m, Hb=3.0m
2-9	River Bank	Side Slope	
2-10		Vegetation	grass
2-11	Estimated Flow Vel	ocity	normal: m/s, flood m/s
0.40	Characteristic of environmental		Riverside forests, Sandbar, Pool,
2-12	condition of river ch		shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		black
	Topography		left: ← ,right ✓
	Structures/Houses,	road	none
2-17	Location of Railway	1	d=19m@Km314.3
	Damaged Record,	none	
2-18	if any (year/month)		
	in arry (year/month)		
0.40	December		
∠-19	Reason of		
2-20	Pattern of	Local sedim	ent deposition
	Riverbed		



			Inventory Shee
Stati	on: From KM315	to KM316	Sheet No.: CH-315
1. Ge	neral		
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo
1-2	Organization of Ins	pector	Team B
1-3	Date/Time of Inspe	ction	Dec. 4, 2014
1-4	Location	Lat	
1-5		Long	
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel
2-1	Length of Objective	e Area	800m, Km315.0-315.8
2-2	Nos. of River		Culvert (1)
2-3	River Channel Aligi	nment	meandering
2-4	River Cross Section	า	Compound section
2-5	River Width		Wf: m, Wr: m
2-5	IVIACI AAIMIII		BI: m, Bc: m, Br: m
2-6	Riverbed Slope		Gentle
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	Hr: 3 m, Hb: 3 m
2-9	River Bank	Side Slope	SI: 1v: 2 , Sr: 1v:
2-10		Vegetation	grass
2-11	Estimated Flow Ve	ocity	normal: 0.6 m/s, flood m/s
	Characteristic of en	vironmental	Riverside forests, Sandbar, Pool,
2-12	condition of river ch		shoal, fishes, etc
			oriodi, noriod, oto
	Land Use		none
	Soil Type		laterite
2-15	Topography		left: ← ,right ✓
2-16	Structures/Houses,	road	none
2-17	Location of Railway		d=32m@KM315.0, 6.3m@Km315.2
		Previously da	
	Damaged Record,		4, river bank was seriously eroded
2-18	if any (year/month)		resent, urgent restoration works with
	iii ariy (yeai/iiioiiiii)	diversion are	being undertaken by TRL/RACHO.
0.40	Danas of	Cambarra Is	l. avada
2-19		Serious ban	k erosion
2-20	Pattern of Riverbed	Rising of riv	erbed in long distance



			Inventory Shee
Stati	on:From KM325 t	o KM326	Sheet No.: CH- KM 325
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 3, 2014
1-4	Location	Lat	6° 38′ 31″ 90‴
1-5		Long	36° 42′ 39″ 37 ‴
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel
2-1	Length of Objective	Area	
2-2	Nos. of River Facilit	ty	2 culverts
2-3	River Channel Aligr	nment	Meandering , Water Hit Area
2-4	River Cross Section	<u> </u>	Compound section
2.5	River Width		Wf: m, Wr: m
2-5	River width		Bl: m, Bc: 35 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Vel	ocity	normal: m/s, flood m/s
2-12	Characteristic of en condition of river ch		Riverside forests, Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
	Topography		left: ← ,right —→
	Structures/Houses,	road	Residence
2-17	Location of Railway	,	d = 600 m
2-18	Damaged Record		
2-19	Reason of		
2-20	Pattern of Riverbed		

e	et for River/Channel					
	Photo Upstream	Photo Downstream				

Cross Section



Topographic condition behind bank Wr (river area) Bl Bs Br Hb AFWL

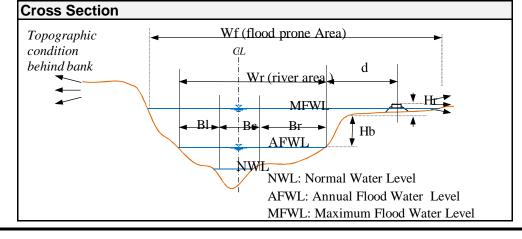
NWL: Normal Water Level

AFWL: Annual Flood Water Level MFWL: Maximum Flood Water Level

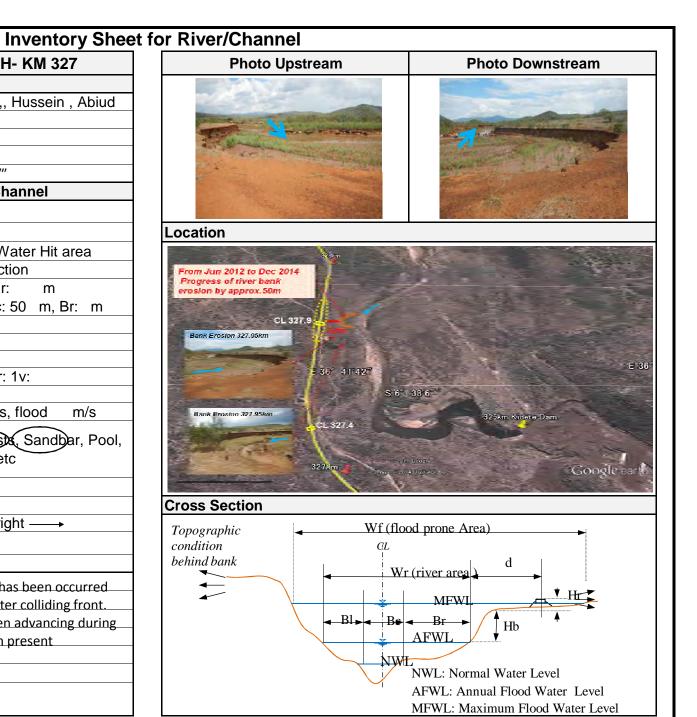
			Inventory Shee
Stati	on:From KM326 t	o KM327	Sheet No.: CH- KM 326
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 3, 2014
1-4	Location	Lat	6° 38′ 11″ 84‴
1-5		Long	36° 41′ 58″ 76‴
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel
2-1	Length of Objective	Area	
2-2	Nos. of River Facilit	ty	1 culvert
	River Channel Aligr	•	Meandering, Water Hit Area
2-4	River Cross Section		Compound Section
٥.	Diver Middle		Wf: m, Wr: m
2-5	River Width		Bl: m, Bc: 68 m, Br: m
2-6	Riverbed Slope		,
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Vel	ocity	normal: m/s, flood m/s
2-12	Characteristic of en condition of river ch		Riverside foreste, Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
	Topography		left: ← ,right —→
	Structures/Houses,	road	none
2-17	Location of Railway	,	d = 310
2-18	Damaged Record, if any (year/month)		
2-19	Reason of		
2-20	Pattern of Riverbed		

et for R	iver/Channel		
	Photo Upstream	Photo Downstream	
4			
-			
4			
	-4:		
I ILOC	ation		





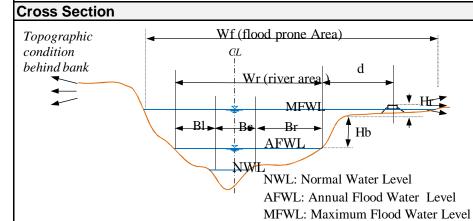
			Inventory Shee
Stati	on:From KM327 t	o KM328	Sheet No.: CH- KM 327
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
	Organization of Inspector		River Group D
	Date/Time of Inspe	ction	Dec. 3, 2014
1-4	Location	Lat	6° 37′ 53″ 90‴
1-5		Long	36° 41′ 40″ 94‴
			tion of River Channel
2-1	Length of Objective	Area	
2-2	Nos. of River Facilit	ty	2 culverts
2-3	River Channel Aligr	nment	Meandering , Water Hit area
2-4	River Cross Section	1	Compound section
2-5	River Width		Wf: m, Wr: m
2-5	INVEL WIGHT		BI: m, Bc: 50 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9		Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Velocity		normal: m/s, flood m/s
0.40	Characteristic of en	vironmental	Riverside forests, Sandbar, Pool,
2-12	condition of river ch		shoal, fishes, etc
2 12	Land Use		nono
			none
	Soil Type Topography		left: ← ,right —→
	Structures/Houses,	rood	-
	Location of Railway		none d = 60 m
2-17	Localion of Kaliway		
			rbank corrosion has been occurred
2-18	Damaged Record,		n point of the water colliding front.
	if any (year/month)		corrosion has been advancing during and a half between present
		two years ar	iu a naii between present
2-19	Reason of	Bank Erosio	n
2-20	Pattern of		
2-20	Riverbed		



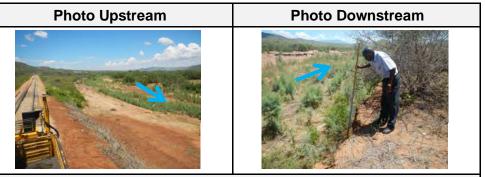
			Inventory Shee
Stati	on:From KM328 t	o KM329	Sheet No.: CH- KM 328
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Inspector		River Group D
1-3	Date/Time of Inspe	ction	Dec. 3, 2014
1-4	Location	Lat	6° 37′ 32″ 48‴
1-5		Long	36° 41′ 33″ 46‴
2. Ch	aracteristics of Ph	ysical Condi	tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	1 culvert
2-3	River Channel Aligi	nment	Meandering , Water Hit Area
2-4	River Cross Section	า	Compound Section
2-5	River Width		Wf: m, Wr: m
2-5	Triver Width		Bl: m, Bc: 58 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12			Riverside foreste, Sandbar, Pool,
2-12	condition of river ch	nannel	shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 110 m
	Damaged Record,		
2-18	if any (year/month)		
	in any (year/month)		
2_10	Reason of		
	Pattern of		
2-20			
L	Riverbed		

et fo	r River/Channel	
	Photo Upstream	Photo Downstream
4		
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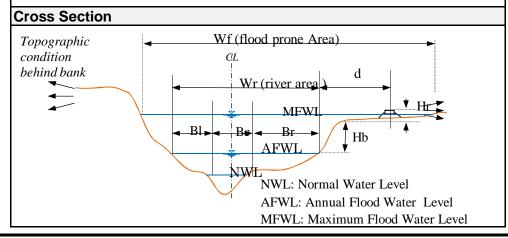




			Inventory Sheet	for River/Channel
Stati	on: From KM329	to KM330	Sheet No.: CH- KM 329	Photo Upstr
1. Ge	neral			5
1-1	Name of Inspector		T. Kawaguchi, Hussein, Abiud	
1-2	Organization of Ins	pector	River Group D	A
	Date/Time of Inspe	ction	Dec. 3, 2014	
1-4	Location	Lat	6° 37′ 20″ 29‴	
1-5		Long	36° 40′ 47″ 79‴	
			tion of River Channel	
2-1	Length of Objective	e Area		
2-2	Nos. of River Facili	ty		Location
2-3	River Channel Alig	nment	Meandering, Water Hit Area	
2-4	River Cross Section	n	Compound section	
2-5	River Width		Wf: m, Wr: m BI: m, Bc: 20 m, Br: m	
2-6	Riverbed Slope		, - 51 = 5, - 11	330km.
2-7	Riverbed Material	Material	Sand	ିପ ^ନ ିପ S/329
2-8		Bank Height	HI: 2.5 m	130
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:	
2-10		Vegetation		329.8km Poles
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s	
2-12	Characteristic of er condition of river ch		Riverside foreste Sandbar, Pool, shoal, fishes, etc	
2-13	Land Use		none	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2-14	Soil Type			Cross Section
2-15	Topography		left: ← ,right —→	Topographic
	Structures/Houses,	, road	none	condition
2-17	Location of Railway	У	d = 22m	behind bank
2_10				
2-19	Reason of			
2-20	Pattern of Riverbed			





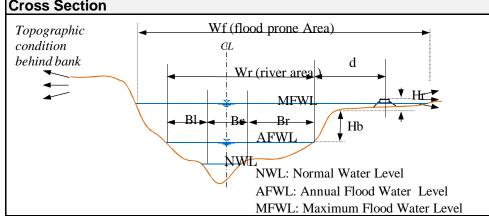


			Inventory Sh
Stati	on: From KM330	to KM331	Sheet No.: CH- KM 330
I. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 3, 2014
1-4	Location	Lat	6° 37′ 13″ 79‴
1-5		Long	36° 40′ 34″ 60‴
			tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
2-3	River Channel Aligi	nment	
2-4	River Cross Section	า	
2-5	River Width		Wf: m, Wr: m Bl: m, Bc: 47 m, Br: m
2-6	Riverbed Slope		
	Riverbed Material	Material	
2-8		Bank Height	
	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12	Characteristic of environmental condition of river channel		Riverside forests, Sandbar, Pool shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
2-16	Structures/Houses,	road	none
2-17	Location of Railway	/	
2-18	Damaged Record, if any (year/month)		
2-19	Reason of		
2-20	Pattern of Riverbed		

r River/Channel	
Photo Upstream	Photo Downstream
Location	
31.65km gulyert	
33155 m (Phorob28) 3P(95)38(Nemberk washin z. S. 8° 3)	654
381km	
E 36° 40.30 GPGS)330,5km bank washout	
articol designation basis with the	
	330km
	GP/GS/329.8km; overflow
Service 1871 - Amerikan	Georgic sauce
Cross Section	
	od prone Area)
condition	ar profile Fried)
behind bank Wr	(river area)
	MFWI H
■ Bl ■ Be	Br Hb
	AFWL
NWI	NWL: Normal Water Level
\sim	AFWL: Annual Flood Water Level
	MFWL: Maximum Flood Water Level

			Inventory She
Stati	on:From KM331 t	o KM332	Sheet No.: CH- KM 331
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspection		Dec. 3, 2014
1-4	Location	Lat	6° 36′ 48″ 50‴
1-5		Long	36° 40′ 05″ 68‴
			tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
	River Channel Alig	•	Meandering , Water Hit Area
	River Cross Section		Compound section
2.5	River Width		Wf: m, Wr: m
2-5	LIVEL MIGHT		BI: m, Bc: 18 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12	Characteristic of environmental condition of river channel		Riverside forests, Sandbar, Pool shoal, fishes, etc
2-13	Land Use		none
	Soil Type		
2-15	Topography		left: ← ,right —→
2-16	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 50 m
	Damaged Record, if any (year/month)		
2-19	Reason of		
2-20	Pattern of Riverbed		

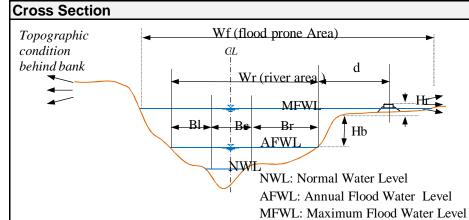
Photo Upstream	Photo Downstream
•	
ion	
	A WAR THE WAR
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	S:87-36°CFCS 351' ium bankiwasnout
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			Inventory Shee
Stati	on:From KM332 t	o KM333	Sheet No.: CH- KM 332
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 3, 2014
1-4	Location	Lat	6° 36′ 17″ 68‴
1-5		Long	36° 39′ 50″ 00‴
2. Ch			tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
2-3	River Channel Align	•	Meandering , Water Hit Area
2-4	River Cross Section		Compound Section
0.5	Divor Midth		Wf: m, Wr: m
2-5	River Width		BI: m, Bc: 30 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10	9		
2-11	Estimated Flow Velocity		normal: m/s, flood m/s
2-12	Characteristic of er condition of river ch		Riverside foreste, Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		Cultivation
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 80 m
2-18	Damaged Record, if any (year/month)		
2-19	Reason of		
2-20	Pattern of Riverbed		

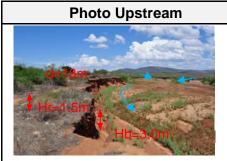
or River/Channel	
Photo Upstream	Photo Downstream



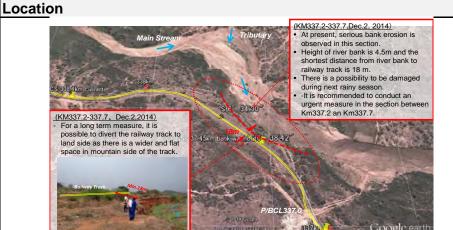


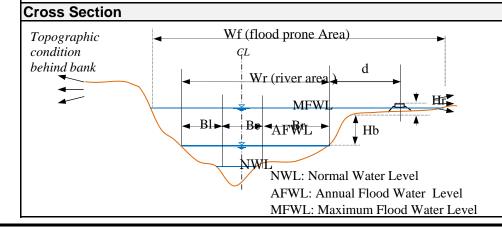
Inventory Sheet for River/Channel

Stati	on: From KM337	to KM338	Sheet No.: CH-337
1. Ge	neral		
	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo
	Organization of Ins	pector	Team B
	Date/Time of Inspe		Dec. 2, 2014 14:00
1-4	Location	Lat	06° 34' 37.60"
1-5	Location	Long	36° 38' 43.2"
2. Ch	aracteristics of Phy	ysical Condi	lition of River Channel
2-1	Length of Objective	Area	500m (Km337.2-337.7)
2-2	Nos. of River		None
2-3	River Channel Aligr	nment	meandering, water hit area
2-4	River Cross Section	1	compound section
2-5	River Width		Wf: m, Wr: approx. 200 m Bl: m, Bc: 50 m, Br: 0 m
2-6	Riverbed Slope		Gentle (i=1/xxx)
2-7	Riverbed Material	Material	Sand
2-8			t Hb: 3.0 m, Hr=1.5m
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v: (vertical)
2-10		Vegetation	none
2-11	Estimated Flow Velocity		normal: m/s, flood m/s
2-12	Characteristic of environmental condition of river channel		Riverside forests Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		none
	Soil Type		Laterite
	Topography		left: ← ,right →
	Structures/Houses,	road	none
2-17	Location of Railway	,	d= 18 m@337.5
		Frequently of	damaged in tha past, and divertsion
	Damaged Record,	of track were	e carried out many times.
2-18	if any (year/month)	2014: bank	erosion
2-19	Reason of	Bank erosio	n, Overflow, Sliding,
2-20	Pattern of Riverbed		verbed in long distance



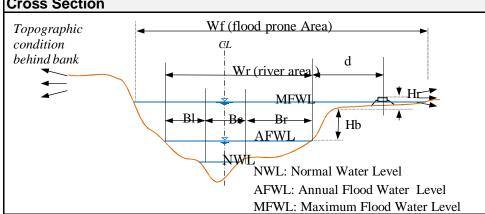






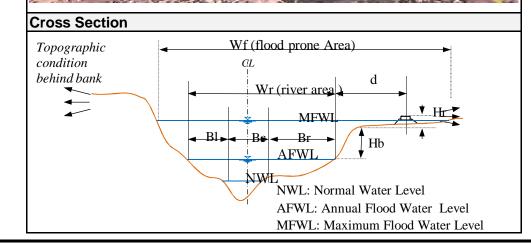
			Inventory Shee
Stati	on: From KM344.	8	Sheet No.: CH-344.8
1. Ge	neral		
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo
1-2	Organization of Ins	pector	Team B
1-3	Date/Time of Inspe	ction	Dec. 3, 2014 1255
1-4	Location	Lat	06° 35' 33.8" - 36.3"
1-5		Long	36° 39' 44.0" - 51.3"
2. Ch			tion of River Channel
2-1	Length of Objective	Area	300m, a Guide dike
2-2	Nos. of River		none
2-3	River Channel Aligr	nment	meandering
2-4	River Cross Section	1	compound section
2-5	River Width		Wf: m, Wr: approx.300 m
2-3	Kivei vvidili		BI: m, Bc:50 m, Br: m
2-6	Riverbed Slope		Gentle
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v: (vertical)
2-10		Vegetation	Grass
2-11	Estimated Flow Velocity		normal: m/s, flood m/s
0.40	Characteristic of environmental		Riverside forests, Sandbar, Pool,
2-12	condition of river channel		shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		Red
	Topography		left: ← ,right →
2-16	Structures/Houses,	road	none
2-17	Location of Railway		d=116m
	Damaged Record,	none	
2-18	if any (year/month)		
	, , , , , , , , , , , , , , , , , , , ,		
2-19	Reason of	Bank erosio	n
2-20	Pattern of		erbed in long distance
2-20	Riverbed	INSHING OF HIVE	erbed in long distance

Inventory Sheet for River/Channel Photo Upstream Photo Downstream Location (KM341, Dec.6.2014) • By 2010 Flood ,the bank was eroded. In Sep.2011, a guide dike (crest width of 7m with earth embankment and stone pitching) was constructed at Km 341.7 to shift river course to the opposite bank. At present, the edge of the guide dike is eroded and scoured. It is recommended to rehabilitate and reinforce the guide dike. **Cross Section**



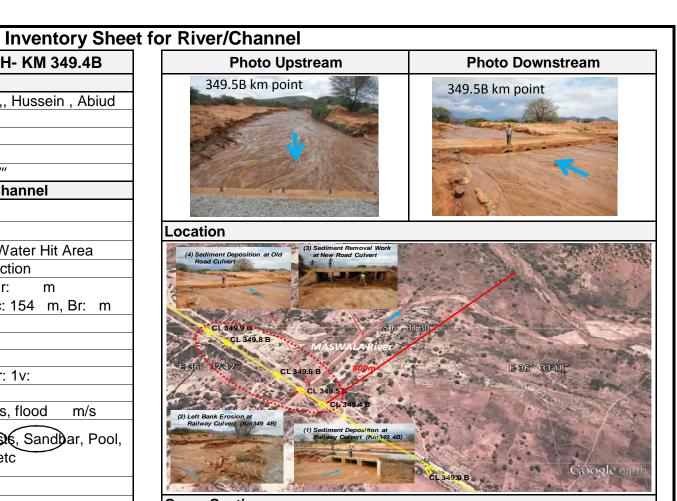
			Inventory She
Statio	n:From KM349.1A to	KM349.9B	Sheet No.: CH- 349.1A
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 2, 2014
1-4	Location	Lat	6° 31′ 42″ 42‴
1-5		Long	36° 33′ 37″ 84‴
2. Ch	aracteristics of Ph	ysical Condi	tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	2 culverts
	River Channel Aligi	· •	Meandering , Water Hit Area
	River Cross Section		Compound Section
2.5	River Width		Wf: m, Wr: m
2-5	River width		BI: m, Bc: 41 m, Br: m
2-6	Riverbed Slope		,
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	HI: 3 m
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
	Characteristic of environmental condition of river channel		Riverside forests Sandbar Pool
2-12			shoal, fishes, etc
			Isribal, risries, etc
2-13	Land Use		Cultivation
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 700 m
2-18	Damaged Record,		
	if any (year/month)		
2-19	Reason of		
	Pattern of		
2-20	Riverbed		

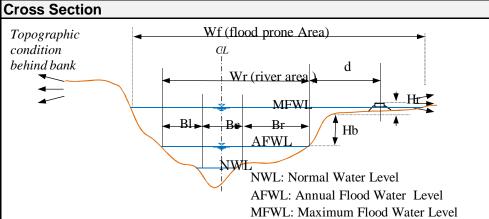
or River/Channel	
	Photo Downstroom
Photo Upstream	Photo Downstream
Landing	
Location	
and the second s	The second secon
	CL 349.1A Upstream
CL 349.0 B	OE STATE OF SUPPORT
	. "
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Station (349.1A km)

			Inventory Shee
Statio	n: From KM349.4B to	KM349.9B	Sheet No.: CH- KM 349.4B
1. Ge			
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Insp		River Group D
1-3	Date/Time of Inspe	ction	Dec. 2, 2014
1-4	Location	Lat	6° 31′ 32″ 63‴
1-5		Long	36° 33′ 24″ 88‴
2. Ch			tion of River Channel
2-1	Length of Objective	Area	
2-2	Nos. of River Facilit	ty	6 culverts
2-3	River Channel Aligr	nment	Meandering , Water Hit Area
2-4	River Cross Section	1	Compound Section
2-5	River Width		Wf: m, Wr: m
2-3	INIVEL WIGHT		BI: m, Bc: 154 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9		Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Velocity		normal: m/s, flood m/s
2-12			Riverside forests, Sandbar, Pool,
	condition of river ch	annel	shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
2-16	Structures/Houses,	road	Cultivation
2-17	Location of Railway	<u>'</u>	d = 800 m
		Culverts of t	he railroad have been deposited by
	Damaged Record,	the sedimen	t in the tributary MASUWALA RIVER,
2-18	if any (year/month)	and river flo	w prevention has been occurred .
	ii airy (yeai/menii)	The railroad bank has been scored by the	
2-19	Reason of	Flood flow o	vertopped railway track
	Pattern of	000 11011 0	Terrepos famos tracit
2-20	Riverbed		

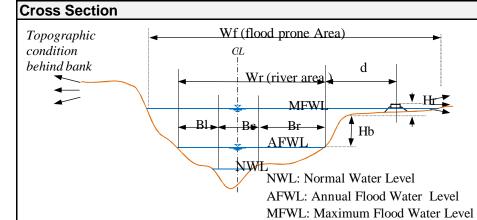




			Inventory Shee
Statio	n:From KM 349.9B -	KM 349.9C	Sheet No.: CH- KM 349.9B
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 2, 2014
1-4	Location	Lat	6° 31′ 32″ 63‴
1-5		Long	36° 33′ 24″ 88‴
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
2-3	River Channel Aligi	nment	Meandering , Water Hit Area
2-4	River Cross Section	า	Compound section
2-5	River Width		Wf: m, Wr: m
2-5	INVEL WIGHT		Bl: m, Bc: 72 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9		Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Vel	ocity	normal: m/s, flood m/s
2-12			Riverside forests, Sandbar, Pool,
	condition of river channel		shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
2-16	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 40 m
	Damaged Record,		
2-18	if any (year/month)		
	in any (year/month)		
2-19	Reason of		
2-20	Pattern of		
2-20	Riverbed		

E	et for River/Channel				
	Photo Upstream	Photo Downstream			





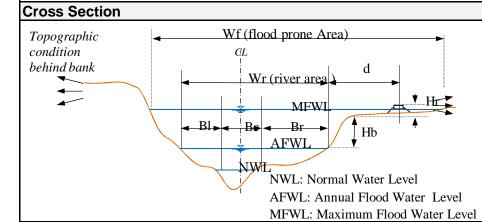
			Inventory Sheet
Statio	on:From KM349.9C	to KM350	Sheet No.: CH- KM 349.9C
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
	Organization of Ins	pector	River Group D
	Date/Time of Inspe		Dec. 2, 2014
1-4	Location	Lat	6° 31′ 01″ 94‴
1-5		Long	36° 32′ 07″ 81‴
2. Ch	aracteristics of Ph	ysical Condi	tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
2-3	River Channel Alig	nment	Meandering, Water height Area
	River Cross Section		
2-5	River Width		Wf: m, Wr: m Bl: m, Bc: 51 m, Br: m
2-6	Riverbed Slope		,
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	HI: 3 m
	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12	Characteristic of environmental condition of river channel		Riverside forests, Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		none
2-14	Soil Type		
2-15	Topography		left: ← ,right —→
2-16	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 150 m
	Damaged Record, if any (year/month)		
2-19	Reason of		
2-20	Pattern of Riverbed		

r River/Channel	
Photo Upstream	Photo Downstream
Location	
US 5100mm Street Street	1000
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E 86° 32'6	
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inear 300	
Cross Section	
Topographic	od prone Area)
condition CL	
behind bank	. d
WI	river area
	MFWI H
■ Bl ■ Be	
<u> </u>	AFWL ↑ Hb
*	
NW	NWL: Normal Water Level
\bigvee	AFWL: Annual Flood Water Level
	MFWL: Maximum Flood Water Level

			Inventory Shee
Stati	on:From KM350 t	o KM351	Sheet No.: CH- KM 350
1. Ge	neral		
1-1	Name of Inspector		T. Kawaguchi ,, Hussein , Abiud
1-2	Organization of Ins	pector	River Group D
1-3	Date/Time of Inspe	ction	Dec. 2, 2014
1-4	Location	Lat	6° 30′ 45″ 41‴
1-5		Long	36° 31′ 47″ 41‴
			tion of River Channel
2-1	Length of Objective	e Area	
2-2	Nos. of River Facili	ty	
2-3	River Channel Aligi	nment	Meandering , Water Hit Area
2-4	River Cross Section	า	Compound section
2-5	River Width		Wf: m, Wr: m
2-5	River width		BI: m, Bc: 33 m, Br: m
2-6	Riverbed Slope		
2-7	Riverbed Material	Material	Sand
2-8		Bank Height	
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:
2-10		Vegetation	
2-11	Estimated Flow Ve	locity	normal: m/s, flood m/s
2-12	Characteristic of environmental condition of river channel		Riverside foreste, Sandbar, Pool, shoal, fishes, etc
2-13	Land Use		none
	Soil Type		
	Topography		left: ← ,right —→
	Structures/Houses,	road	none
2-17	Location of Railway	/	d = 280 m
2-18	Damaged Record, if any (year/month)		
2-19	Reason of		
2-20	Pattern of Riverbed		

Inventory Sheet for River/Channel				
CH- KM 350	Photo Upstream	Photo Downstream		
,, Hussein , Abiud				
"				
1‴				
Channel				

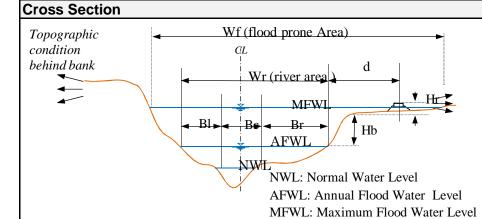




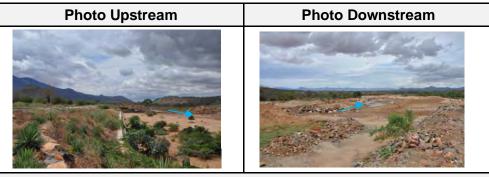
			Inventory Sheet	for River/Channel
Station:From KM351 to KM352		o KM352	Sheet No.: CH- KM 351	Photo Upstr
1. Ge	eneral			-
1-1			T. Kawaguchi ,, Hussein , Abiud	
1-2			River Group D	
1-3	Date/Time of Inspe		Dec. 2, 2014	
1-4	Location	Lat	6° 30′ 23″ 11‴	
1-5		Long	36° 31′ 21″ 22‴	
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel	
2-1	Length of Objective	e Area		
2-2	Nos. of River			Location
2-3	River Channel Aligi	nment	Meandering, Water Hit Area	352km
2-4	River Cross Section		Compound section	
2-5			Wf: m, Wr: m Bl: m, Bc: 34 m, Br: m	251.66.3
2-6	Riverbed Slope			
2-7	Riverbed Material	Material	Sand	
2-8			HI: 3 m	E 93° 10'64°
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:	Silver and the second
2-10		Vegetation		
2-11	Estimated Flow Vel	locity	normal: m/s, flood m/s	
2-12	Characteristic of environmental condition of river channel		Riverside foreste, Sandbar, Pool, shoal, fishes, etc	
2-13	3 Land Use		none	
2-14	Soil Type			Cross Section
2-15	Topography		left: ← ,right —→	Topographic -
2-16	6 Structures/Houses, road		none	condition
2-17	Location of Railway	/	d = 390	behind bank
2 10	Damaged Pecerd			
2-19	Reason of			
2-20	Pattern of Riverbed			

7017011a1111c1		
Photo Upstream	Photo Downstream	

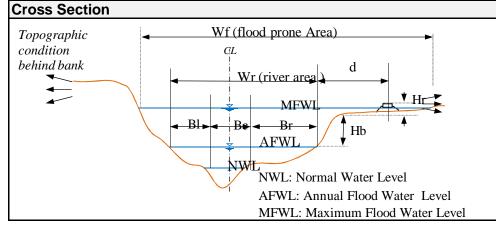




Inventory Sheet for River/Channel					
Station: From KM355.1		1	Sheet No.: CH-355.1	Photo Upstr	
1. Ge	neral			The same of the same	
1-1			T.Fukuda, Mr. Kido, Mr. Philipo	A CONTRACTOR OF THE PARTY OF TH	
1-2	Organization of Ins	pector	Team B	The same of	
1-3	Date/Time of Inspe	ction	Dec. 2, 2014 1325		
1-4	Location	Lat			
1-5		Long			
			tion of River Channel		
	Length of Objective	Area	KM354.9-355.2		
	Nos. of River		Gabion, culvert (1), bridge(1)	Location	
	River Channel Aligr		Straight, water hit area	A CONTRACTOR	
2-4	River Cross Section	1	compond		
2-5	River Width		Wf: m, Wr:300-600 m		
			Bl: m, Bc: m, Br: m		
	Riverbed Slope	I	Gentle		
	Riverbed Material	Material	Sand	subriver(Phato947)	
2-8	D'arra Danala		Hb: 4.0 - 5.3m	(CPOS)355/2km bank washord	
	River Bank		SI: 1v: , Sr: 1v:	Kidivo River	
2-10 2-11			none		
2-11	Estimated Flow Vel	ocity	normal: 0 m/s, flood m/s		
2 42	Characteristic of environmental		Riverside forests, Sandbar, Pool,		
condition of river channel		annel	shoal, fishes, etc	289 m	
2-13	Land Use		none		
	Soil Type		yellow color soil	Cross Section	
2-15	Topography		left: ← ,right →	Topographic —	
2-16	Structures/Houses, road		none	condition	
2-17	Location of Railway	1	d=22mpkm355.1	behind bank	
2-18			ood, gabion were insatalled.		
	if any (year/month)	Boulders are delivered from Gulwe, and			
	,	sands are extraccte neare site.			
2-19	Reason of	Bank erosion & overflow			
2-20	Pattern of				
2 20	Riverbed				







	Inventory Shee			
Stati	on:KM355.2(conf	. Kidivo)	Sheet No.: CH-355.2	
1. Ge	neral			
1-1	Name of Inspector		T.Fukuda, Mr. Kido, Mr. Philipo	
1-2	Organization of Ins	pector	Team B	
1-3	Date/Time of Inspection		Dec. 2, 2014	
1-4	Location	Lat		
1-5		Long		
2. Ch	aracteristics of Phy	ysical Condi	tion of River Channel	
2-1	Length of Objective	Area	300m, Km355.2-Km355.5	
2-2	Nos. of River			
2-3	River Channel Aligr	nment	Straight	
2-4	River Cross Section	1		
۲	River Width		Wf: m, Wr: m	
2-5			Bl: m, Bc: m, Br: m	
2-6	Riverbed Slope		Gentle	
2-7	Riverbed Material	Material	Sand	
2-8		Bank Height		
2-9	River Bank	Side Slope	SI: 1v: , Sr: 1v:	
2-10		Vegetation	Tall grass	
2-11	Estimated Flow Velocity		normal: m/s, flood m/s	
0.40	Characteristic of environmental		Riverside forests, Sandbar, Pool,	
2-12	condition of river channel		shoal, fishes, etc	
2-13	Land Use		none	
2-14	Soil Type		Laterite	
	Topography		left: ← ,right —→	
2-16	Structures/Houses, road		none	
2-17	Location of Railway		d=28.6m@ Km355.2	
		Steel sheet pile and gabion (3 steps) are installed		
2-18	Damaged Pecerd	for protection of left and right banks of outlet		
	Damaged Record, if any (year/month)	channel at confluence of Kidivo River.		
	ii any (yeai/monin)	Guide channel and dike are being constructed.		
		2 parties of (2BH,1DT) & (1DZ,1BH,1DT)		
2-19	Reason of	Bank erosio	n	
2-20	Pattern of Riverbed	siltation at confluence		

