

मुंबई रेलवे विकास कॉर्पोरेशन लि.

(भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम)

MUMBAI RAILWAY VIKAS CORPORATION LTD.

(A PSU of Govt. of India, Ministry of Railways)

Dated 31.10.2022

No. MRVC/W/150/PNVL-KJT/ Forest land

To. Ďy. Chief Conservator of Forest, Alibag, Maharashtra ∠006031

Ref:



Sub: Diversion of 9.1321 ha of forest land in favour of Mumbai Railway Vikas Corporation limited for construction of Panvel – Karjat suburban corridor project (Double Railway Line) in Raigad district in the state of Maharashtra-(Regarding. Compliance for stage II)

1. Gol, MOEF&CC letter No. FC-II/MH-156/2021-NGP/10327 dated 20.09.2022

2. DCF letter No. अ/२०/जमिन/व.सं. २४१०/२०२२-२३ दिनांक १८.१०.२०२२.

The stage I approval with conditions has been obtained from Gol, MOEF&CC Regional Office, Nagpur's order No. FC-II/MH-156/2021/NGP/9777 dated 30.05.2022. The compliance report for the same has been submitted vide this office letter dated 16.07.2022 & 20.07.2022 to DCF Alibaug. The working permission has been received by CCF/Thane on 17.08.2022 vide CCF's, Thane letter No. कक्ष-?०/वस/प्र. क. ४७/१९-२०/जा. क. २७८/२०२२-२३ ठाणे ४०० ६०३ दि. १७.०८.२०२२.

The compliance report of stage I has been forwarded by APCCF & nodel office Nagpur vide his letter No. Desk-17/Nodal/Thane/ID-12768(70)/1112/2022-23 Nagpur- 440001 dated 02.08.2022. to Gol, MOEF&CC Regional Office, Nagpur.

The Compliance report of stage I Clearance submitted by APCCF & Nodal office Nagpur to Regional office MOEF&CC Nagpur vide letter No. Desk-17/Nodal/Thane/ID-12768(70)/1112/2022-23 Nagpur- 440001 dated 02.08.2022 has been examine by Regional office MOEF&CC Nagpur in detail & quarries has been conveyed to State Government vide Reginal office letter referred at sr. No.i of dated 20.09.2022 . Further, DCF Alibaug has conveyed these queries for compliance for item No. 1 to 5 of the MOEFF&CC letter to MRVC for compliance vide letter referred (2).

The details of compliance for the item No. 1 to 5 are as under:-

Sr. No.	Item Description	Compliance
1	Site specific 10 years Wildlife	Wildlife conservation plan has been prepared based on
	Management plan dully	the joint site visit alongwith DCF Alibag and DCF
	approved by Chief Wildlife	(Wild life) Thane on forest land on 8.03.2022. The
		suggestions conveyed by DCF (Wild life) Thane vide
		his letter no. जमीन /1484 /2021-22 dated. 14.03.2022
	approval is not submitted along	
	with compliance report. The	"The forest land were the physical work is proposed
	dame needs to be submitted.	is adjacent to the Human Habitation and agriculture

दूसरी मंजिल, चर्चगेट स्टेशन भवन, मुंबई - 400 020.

2nd Floor, Churchgate Station Bldg., Mumbai 400 020. Tel.: 022-22195398 / 399 • Fax: 022-2209 6972 • Website:: www.mrvc.indianrailways.gov.in CIN: U45203MH1999GOI120765

Sr. No.	Item Description	Compliance
Sr. No.	Item Description	Compliance land and presence of Wild animal is not there, also incidences of Human Wild life conflict are also nil. It was revealed in the joint inspection that mitigation major is not feasible as proposed diversion of forest area for diversion is scattered and in many patches and absent of Wild life. Considering the facts in the proposal, discussions held with forest and Railway officials and based on joint site Inspection, it is recommended to erect chain -link fencing of 8m height and 100m length along both sides of the railway line at both the ends of the tunnels (i.e. before starting point and after the end point of the tunnels) with annual maintenance to avoid entry of any wild animal in the tunnel. It is also recommended to install necessary signage/direction boards depicting messages about wildlife conservation and helpline/contact of forest and railway officials to make people aware about wildlife conservation and to tackle situation of human wildlife conflict, if any in the future." The above suggestions had incorporated in (wildlife) conservation plan & further approved PCCF wild life Nagpur. As the construction of new Panvel- Karjat Double line work in progress. After completion of work the chain -link fencing of 8m height at the mention locations will be provided and necessary signage/direction boards depicting messages about wildlife conservation and helpline/contact of forest and provided and necessary signage/direction boards depicting messages about
		Railway will be provided before commissioning of Railway line. The Completion certificate of the above work planed for wildlife conservation will be submitted to wildlife authority after completion of project.
2	A detailed report in compliance to <i>condition no. vii</i> of Stage – I approval is not submitted along with compliance report. The same needs to be submitted	The proposed double railway line is passing parallel to existing railway line and it further de routed from existing line at Km 22000 and further meet at Km29600. The existing bridges provided i.e. minor bridges, Major bridges, ROB, underpass RUB, has been extended for new line also at the same location. The new bridges also planed in new diverted line for movement of human, vehicles, animals etc. The copy of the plan of alignment along with location of bridges & their types is enclosed herewith along with list of bridges planned.
3.	A scheme for avenue plantation in compliance to <i>condition no</i> <i>xiii</i> of Stage – I approval is not submitted along with compliance report. The same needs to be submitted.	The same is enclosed herewith for compiling to <i>condition no xiii</i> of Stage – I approval. (will be submitted by Dy. Conservator of Forest Alibag)
4	The statement made in the undertaking, submitted by the	The correct undertaking Annexure A is enclosed herewith.

ckal

Sr. No.	Item Description	Compliance
	User Agency in compliance to condition no. xiv of Stage – I approval is not as per condition. Correct undertaking shall be submitted by the User Agency.	
5	The statement made in the undertaking, submitted by the User Agency in compliance to condition no. xx of Stage – I approval is not as per condition. Correct undertaking shall be submitted by the User Agency.	

(K.A.Patil) /

(K.A. Patil) Dy. CPM III MRVC, Mumbai



Office of the Deputy Conservator of Forests, Wildlife Thane L.B.S Marg, Teen Hath Naka, Naupada, Thane 400 602 Phone No.022 2540 2522, Fax No.022 2539 2070 Email : dcfwlthane@gmail.com

No: 200 98 872021-22 Dated- 14-03-2022

To Dy. Conservator of Forests (T) Alibag Forest Division, Alibag

Subject: "Diversion of 9.13.21 Ha of Forest Land for the Project of Panvel - Karjat Suburban corridor (Doubling Railway Line) in Raigad District in the State of Maharashtra."

Ref: 1. APCCF Wildlife (West) Letter Out No. Sec-3/Land/FCA/FN 84/2706/ dated 28/01/2022 2. DCF (T) Alibag Letter Out.No. B/20/Land/F.P./4961/2021-22 dated 07/03/2022 3. Dy. Chief Project Manager/III Letter No MRVC/W/150/Forest Land dated 10/03/2022

Additional Principal Chief Conservator of Forests (Wildlife) by letter with reference no l cited above directed Deputy Conservator of Forests (Wildlife) Thane to present at joint site inspection of Project area along with DCF (T) Alibag and Railway Officials and to guide for preparing Wildlife Conservation Plan. A joint site inspection was arranged on 8th March 2022 as per your letter with reference no 2 cited above.

The joint forest site inspection was done on 08.03.2022 in which you along with concerned RFO, field staff and Railway Officials were present. During the site inspection, Project Proponent showed Wild life Conservation Plan which was prepared by the proponent. Discussion was held with Forest and Railway officials present during site inspection on various aspects of the project and its impact on wildlife.

During the Site Inspection, Dy. Chief Project Manager of Project agency said that, out of 9.1321ha forest area proposed for diversion, tunnels are proposed in 4.2241 ha of forest area, hence there will be no destruction or fragmentation of wildlife habitat in 4.2241 ha of forest area Proposed railway line is near and along the existing railway line above ground, whereas the proposed tunnel is not exactly along the existing tunnel. Also, out of 9.1321 ha of forest area for diversion, physical execution of work will be done only in 4.908 ha of forest area.

During the site visit, concerned RFO Mr. Bhujbal based on his field experience and his During the site visit, concerned to obtain the physical execution of work is proposed h_{is} office record stated that, 4.908 ha of forest area where physical execution of work is proposed is office record stated that, 4.908 ha of forest and and presence of wild animals is not there adjacent to the human habitation and agricultural land and presence of wild animals is not there. adjacent to the human habitation and agreed are also NIL in above 4.908 ha of forest area. It was Also incidences of human wildlife conflict are also NIL in above 4.908 ha of forest area. It was Also incidences of human within control u_{max} measures are not feasible as 4.908 proposed proposed in Joint Site Inspection that mitigation measures and absence of within the proposed proposed proposed for the second seco revealed in Joint Site Inspection that many small patches and absence of wildlife therein.

Considering the facts in the proposal, discussions held with Forest and Railway officials and based on Joint Site Inspection, it is recommended to erect chain-link fencing of 8m height and based on solid side inspected and and and loom length along both sides of the railway line at both the ends of the tunnels (i.e. before starting point and after the end point of the tunnels) with annual maintenance to avoid entry of any wild animal in the tunnel. It is also recommended to install necessary signage/direction boards depicting messages about wildlife conservation and helpline/contact of forest and railway officials to make people aware about wildlife conservation and to tackle situation of human wildlife conflict, if any in the future.

You are requested to make necessary corrections in the plan, by adding above recommendations in the Wildlife Conservation/mitigation Plan. Also, kindly take into consideration various provision of Wildlife corridor and Tiger Conservation Plan, if any, regarding proposed forest area for diversion, before finalizing the Wildlife Conservation Plan submitted by the Project Proponent.

(Dr. B N Pingale) Dy.Conservator of Forests (Wildlife) Thane

Copy to: Additional Principal Chief Conservator of Forest, (Wildlife), Western Region. Maharashtra State, Mumbai for information and for necessary action.

Copy to: Chief Conservator of Forests (T) Thane for information and for necessary action. Copy to: Dy. Chief Project Manager/III for information and for necessary action.



मुंबई रेलवे विकास कॉर्पोरेशन लि.

(भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम)

MUMBAI RAILWAY VIKAS CORPORATION LTD. (A PSU of Govt. of India, Ministry of Railways)

Proposal No. : FP/MH/RAIL/43265/2019 :- Proposal for diversion of 9.1321ha. forest land in favour of Mumbai Railway Vikas Corporation Ltd. For construction of Panvel – Karjat Suburban corridor Project (Double Railway Line) in Raigad district in the state of Maharashtra.

Condition No. xrv

UNDERTAKING

The project authority undertakes that, Railway will abide this condition as mentioned in the action to be taken to improve the forest /Tree cover and to reduce pollution in state, as mandated in National Forest Policy 1988 and Environmental (protection) Act 1986. respectively,

K.A. Patil

Dy.CPM III MRVC, Mumbai

Date: 31/10/2022

Place: Mumbai





(भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम)

Maharashtra.

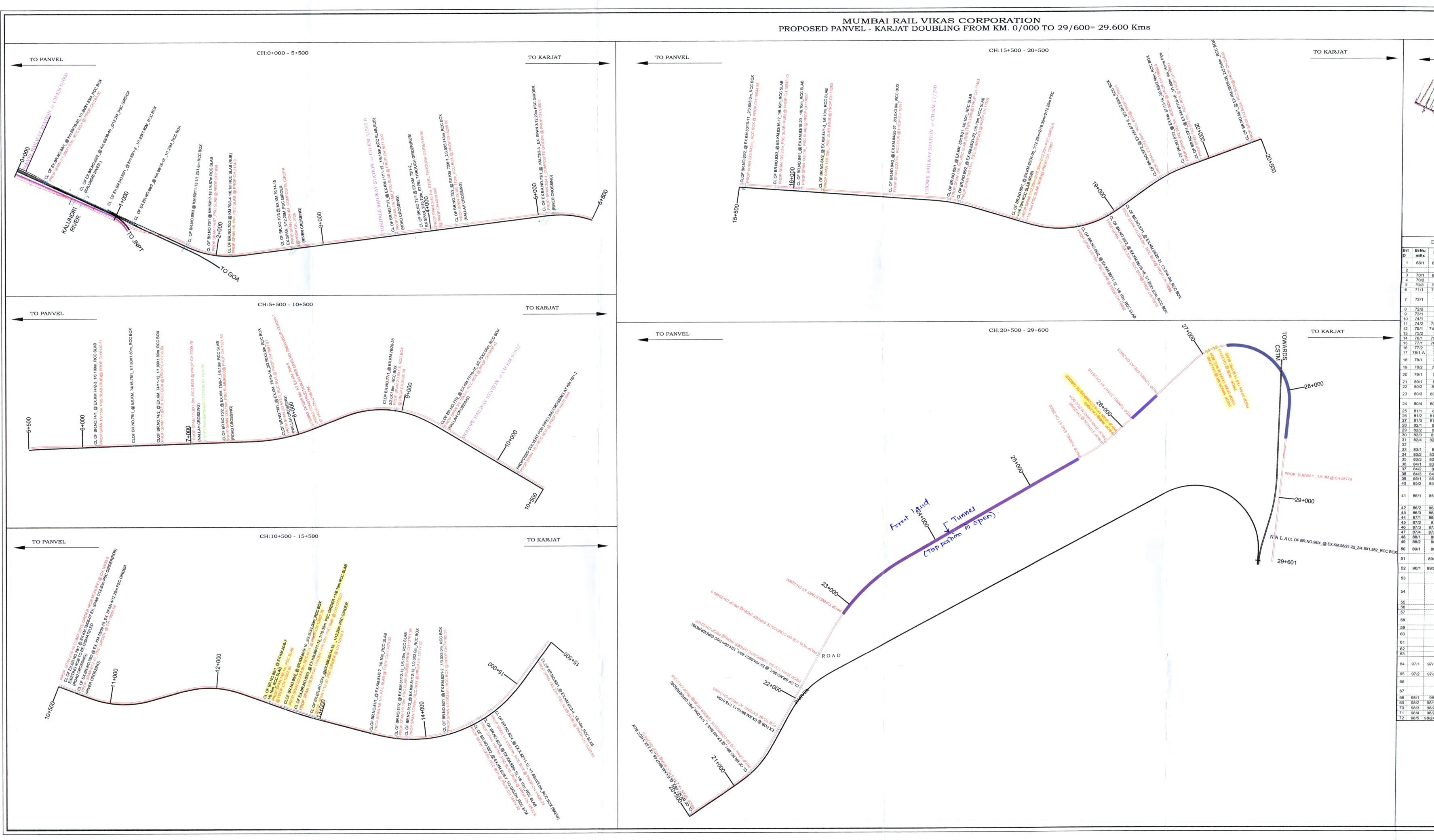
Condition No.x3

UNDERTAKING

The Project authority undertaken that, the period of diversion of forest land under this condition will be up to project life. & Railway will abide this condition.

(K.A. Patil) Dy. CPM III MRVC, Mumbai

Date: 31/10/2022 Place: Mumbai



тори	ANVEL		_												NORT			то		ZJAT				
							×		EYPLA	N														
,	1	SuperStr_E	O BE COI	1 1																				
Km_Ex	Span_Ex	x	}	Length	Span	SuperStr	Br_Type							ALIB	BAG FORE	akup of the EST DIVISION	N		1/2					ĺ
68/18-20	1/1.2	RCC HUME PIPE	1 Vicinicani	1 1	1/1.2X1.83	RCC Box	Minor							(Under Fon Abstract of It	rest Conse	ervation Act	t. 1980)							1
			Panvel Flyover	1375		RFO	RFO	-	1001100	1		L		Details area stat	tement of	of Required	Forest Lan	d						
69/17-18	1/4.57	RCC SLAB	Nallah		1/4.57	RCC Slab	Minor	SR NO.	VILLAGE	TALUKA NAM	E OLD SURVEY	NEW	COMP	CHAINAGE	SH/	APE OF	Length	Width		AREA				/
70/3-4	1/6.1	RCC SLAB	RUB		1x6.1	PSC Slab	RUB					1	ANINE			LAND EGULAR			SQ. MT		S	TATUS OF FO	REST	
70/14-15	3/12.2	PSC Girder	FRIVIER	1	4/122	PSC Slah	Miniar	1 1	BELAVL	PANVEE	86	135	-	5561 To 5663	1010562	C-SOLAR	05.25	10	1535.35					7

	1		Panvel Flyove	ar 137	5	RFO	RFO		1.001	1		Te	1	Details area stat	ement of Require	ed Forest La	and			
69/17-18	1/4.57	RCC SLAB	the second design of the second se		1/4.57	RCC Slab	Minor	SR		TALUKA NAN				CHAINAGE	SHAPE OF	Length			AREA	67A.900
70/3-4	1/6.1	RCC SLAB	and the second sec		1x6.1	PSC Slab	RUB	-		nik A diserti			MIM		IRREGULAR	Bell		SQ. MTR		STATUS OF FOREST
70/14-15	3/12.2	PSC Girder			4/12.2	PSC Slab	Major	1	BELAVLI	PANVEE	86	135	-	5561 To 5663	SHAPE	95.35	16	1525.27	0.15.2527	RESERVE FOREST (SEC 4
71/11-12	1/6.1	RCC SLAB	RUB		1/9.15	PSC Slab	RUB	2	BHINGAR	PANVEL	-	26		8085 To 8184	IRREGULAR	100.00	-			
72/1-2	2/45.7	STEEL	RUB(Highway)		2/61.0	OWTG	DUD	-							SHAPE	106.63	5	533.16		RESERVE FOREST (SEC 4
12/1-2	2/45.1	GIRDER	ROD(righway)		2/61.0	OWIG	RUB	4			74	58		12450 To 13100	-	537.41	17	9136.37	0.91.3637	RESERVE FOREST (SEC 4
72/6-7	2/3.0X5.74	the feet the said and that the rand has the rand of the	Nallah		1/6.10	PSC Slab	Minor	- 5	BARVAI	PANVEL	-	36		11565 To 11700 11500 To 11565	IRREGULAR	134.5	5	672.64		
73/2-3	3/12.2	PSC Girder	River		4/12.2	PSC Slab	Minor	6		. PATTLE		27		11500 To 11565 11130 To11166	SHAPE	68.63 45.14	5	344.15		- DRIVATE CORCET
74/2-3	1/6.1	RCC SLAB	RUB		1x6.1	PSC Slab	RUB	7			-	37		11370 To 11495		45.14	13	586.903 622.03		
74/11-12	1/1.8X1.8	RCC BOX	Nallah		1/2X2.0	RCC Box	Minor	- 8				41			IRREGULAR			622.03	0.06.2203	
74/16-75/1	1/1.8X1.8	RCC BOX	Nallah	1	1/2X2.0	RCC Box	Minor	Ľ				41		8413 To 8423	SHAPE	11.5	10	115	0.01.15	PRIVATE FOREST
75/6-7	1/6.1	RCC SLAB	RUB		1x6.1	PSC Slab	RUB	9			-	42/1A		8423 To 8497	IRREGULAR	78.7	10	202		PRIVATE FOREST (SEC. 35)
75/15-16	2/3.5X3.0		Nallah		1/12.20	PSC Slab	Minor		BHERLE	PANVEL					SHAPE	/0./	10	787	0.07.87	(320. 25)
76/26-28	2/3.0X1.8		Nallah		2/3.0X1.855	RCC Box	Minor	10				42/2A		8504 To 8551	IRREGULAR SHAPE	46.88	25	1172	0.11.72	PRIVATE FOREST (SEC. 35)
77/2-3	3/2.75X3.0	the state of the s	Nallah		1/9.15	PSC Slab	Minor	11							IRREGULAR					
78/1-2	1/1.8X1.2	RCC BOX	Pipe Line	+	1/2.44	RCC Slab	Minor					FOREST		8551 To 8647	SHAPE	108	25	2700.0	0.27.00	RESERVE FOREST
78/6-7	1/12.2	PSC Girder	ROB (Mohope)		3/24.0	Composite	ROB	12	LODHIVALI	KHALAPUR		17		13951 To 14030	IRREGULAR					
78/9-10	4/12.2	PSC Girder	River	+	4/12.2	Girder		-	VAVRLE						SHAPE	56.82	23	1306.87	0.13.0687	ACQUIRED PRIVATE FORES
	4/12.2		T CIVOT	1	1/30.0 (6.0	PSC Slab	Major	13	VAVALE	KHALAPUR	3/7, 3/1	153	•	23100 To 23263	IRREGULAR	162.2	24	3893.16	0.38.9316	PRIVATE FOREST (SEC. 35)
79/5-6		FOOT	FOB	1	m wide)	FOB	FOB	14			3/5A	156	•	23332 To 23360	SHAPE	34.38	3	103.14	0.01.0314	RESERVE FOREST
80/6-7	1/6.1	RCC SLAB	RUB	1	1/6.1	PSC Slab	RUB	15			15/12A	189	•	23725 TO 23881		149.08	24	3577.95	0.35.7795	PRIVATE FOREST (SEC. 35)
80/9-10	2/2.5X4.0	RCC BOX	Nallah	1	2/2.5X4.05	RCC Box	Minor	16			36/3A	201	•	23925 to 24055		134.71	24	3233.09	0.32.3309	RESERVE FOREST
80/11-12	1/18.3+1/6.1	PSC Girder	RUB cum Pipe		1/12 2+30 5	PSC Cirdor		17			3/4	157		23267 To 23332		120.67	24	2896.18	0.28.9618	PRIVATE FOREST (SEC. 35)
55/11-12		& RCC Slab	Line		1/12.2+30.5	PSC Girder	Major	18			38/2	207		24233 TO 24280		41.66	24		0.09.9992	,
80/14-15	1/12.2	PSC Girder	Pipe Line		1/18.3		Maior	19			38/3a/1	208		24280 To 24300		16.69	24		0.04.0074	
						Composite Girder		20			38/1	205		24194 TO 24249		51.72	24	++	0.12.4133	RESERVE FOREST
81/6-7	1/6.1	PSC SLAB	Nallah		1/6.10	RCC Slab	Minor	21			15/A/16	194	- 1	23702 TO 23725		21.28	3			PRIVATE FOREST (SEC. 35)
81/12-13 81/12-13	1/6.1 1/2X2.0	RCC SLAB RCC BOX	RUB	+	1/9.15	PSC Slab	RUB	22			38/4	210	- 1	24329 To 24373		43.16	24		0.10.3584	
82/1-2	1/3.0X3.0	RCC BOX	Nallah		1/2.0X2.05 1/3.0X3.05	RCC Box RCC Box	Minor	23			5/5,15/A/1	188		23881 To 23930		36.41	24	874	0.10.3584	RESERVE FOREST PRIVATE FOREST (SEC. 35)
82/6-7	1/3.0X5.0	RCC BOX	Nallah	1	1/3.0X3.05	RCC Box	Minor	24			38/3A/2	209	_ 2	24294 To 24329		34.7	24	833	0.08.33	(SEC. 35)
82/9-10	1/6.1	RCC SLAB	RUB	[1/9.15	PSC Slab	RUB	25				158/A		23315 To 23387		38.66	24	928	0.09.28	
		RCC BOX	Nallah		1/1.83X3.05	RCC Box	Minor	26			36/3	200		23928 To 23930		2.5	2	5	0.00.05	
			Nadhal Tunnel	219		Tunnel	Tunnel	27				166		24361 To 24800		424.85	24	10196.55		RESERVE FOREST
83/3-4	1/6.1	RCC SLAB	RUB		1/9.15	PSC Slab	RUB	28		-	100	26		24800 To 25238		680.73	24		1.63.377	RESERVE FOREST
83/10-11	2/3.6X5.0	RCC BOX	Nallah		1/9.15	PSC Slab	Minor	29 30	KIRAVALI	KARJAT	99	25		25238 To 25330	IRREGULAR	130.74		3137.96	0.31.3796	
83/16-17	1/6.1	RCC SLAB	RUB		1/9.15	PSC Slab	RUB	30		-	92	18		25330 To 25600	SHAPE	and the second se	24,55	11331.95	1.13.3195	(SEC 4)
83/19-20	1/6.1	RCC SLAB	Nallah		1/6.1	PSC Slab	Minor				114	40	- 2	5851 To 25936	the second s	116.44	33	3842.65	0.38.4265	RESERVE FOREST
84/1-3	1/6.1	RCC SLAB	RUB		1/9.15	PSC Slab	RUB	32	VANJALE	KARJAT	65/0	170	- 2	7080 To 27280	IRREGULAR	172.17	40	6887.169 0	0.68.87169	RESERVE FOREST (SEC 4)
84/25-27 85/19-21	2/3.0X3.0	RCC BOX RCC SLAB	Nallah Pipe Line		1/12.2	PSC Slab	Minor				l.				SHAPE TOTAL					
85/21-23	1/6.1 1/6.1	RCC SLAB	RUB		1/6.1 1/9.15	PSC Slab PSC Slab	Minor								TOTAL			91321	9.13.21	
	1/12.2+2/1	ILSO GLAD			1/12.2+2/18	F SC SIdD	RUB											1	nk	.Patil) Retil)
	8.3+	PSC Girder	Phone Di ID		.3+	PSC Girder &													Hà	31.10-22
85/34-36		& RCC Slab	River&RUB		2/12.2+1/9.	PSC Slab	Major												HK.A	.Patil)
	.1				15														UV.CPM-II,N	WRVC Mumbai.
86/11-12	1/6.1	RCC SLAB	RUB		1x6.1	PSC Slab	RUB													
		RCC BOX	Nallah		1/1.20X1.88	RCC Box	Minor									and the second second				
		RCC BOX	Nallah		1/3.0X4.05	RCC Box	Minor													
		RCC BOX	Nailah		1/12.20	PSC Slab	Minor													
		RCC BOX	Nallah Canal Crossing		2/2.5X2.55	RCC Box	Minor													I
		Hume Pipe RCC BOX	Nallah		1/1.8 2/3.5X5.00	Hume Pipe	Minor													
		RCC BOX	Naliah		2/3.5X5.00 1/2.50X3.05	RCC Box RCC Box	Minor													
					1/48.3	Composite	Minor													
89/2-3	1/14.00	PSC Girder	ROB(Cutting)		(skewed)	Girder	ROB													I
		FOOT	DDIDOF		1/24.5(2.44	Composite														
80/40 40		FOOT				COMDUSIN														
89/12-13		1001	BRIDGE		m wide)	Girder	FOBX													
	1X24 A				m wide)															
89/12-13 89/21-90/1	1X24.4	PSC Girder	ROB(Cutting)			Girder Composite Girder	FOBX ROB													
	1X24.4				m wide)	Girder Composite Girder Composite	ROB													
	1X24.4		ROB(Cutting)		m wide) 1X36.0 1X36.0	Girder Composite Girder														
	1X24.4		ROB(Cutting)		m wide) 1X36.0 1X36.0 2x7 (PSC	Girder Composite Girder Composite Girder	ROB													
	1X24.4		ROB(Cutting)		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate	Girder Composite Girder Composite	ROB													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) +	Girder Composite Girder Composite Girder Composite Girder	ROB ROB Minor													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarie Tunnei	2600	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder)	Girder Composite Girder Composite Girder Composite Girder Tunnel	ROB ROB Minor Tunnel													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarie Tunnel Nallah	2600	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab	ROB ROB Minor Tunnel Major													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarie Tunnei	2600	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder)	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab	ROB ROB Minor Tunnel													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarie Tunnel Nallah	2600	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab Composite	ROB ROB Minor Tunnel Major Major													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 3/6.10	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab Composite Girder	ROB ROB Minor Tunnel Major Major ROB													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel	2600	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 3/6.10 1X36.0	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab Composite Girder Tunnel	ROB ROB Minor Tunnel Major Major ROB Tunnel													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort)		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 3/6.10	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab Composite Girder	ROB ROB Minor Tunnel Major Major ROB													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 3/6.10 1X36.0 1/3.5 X2.5	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab Composite Girder Tunnel RCC Box	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB						[
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modil Resort) Balancing culvert		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab Composite Girder Tunnel RCC Box PSC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 3/6.10 1X36.0 1/3.5 X2.5	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB													
	1X24.4	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB		m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab RFC Slab PSC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor													
		PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab RFO RCC Box &	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB RFO									Jund				
89/21-90/1		PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab RFC Slab PSC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB									Local.				
89/21-90/1	.0X0.6 DIA	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab RFO RCC Box &	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB RFO									Legel &	DAT		-	
97/11-12 3	.0X0.6 DIA	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab Composite Girder Tunnel RCC Box PSC Slab PSC Slab PSC Slab RFO RCC Box & RCC Slab	ROB ROB Minor Tunnel Major ROB Tunnel RUB Minor RUB RFO Minor Minor								(1	1000 K. A.	PAT	ſIL)		
97/11-12 3	.0X0.6 DIA	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab Composite Girder Tunnel RCC Box PSC Slab PSC Slab PSC Slab RFO RCC Box & RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB RFO Minor									1000 K. A. BIM	PAT	FIL)		
97/11-12 3	.0X0.6 DIA	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modil Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RFC RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major ROB Tunnel RUB Minor RUB RFO Minor Minor								(F D¥, C	1000 K. A. BIMI	PAT	FIL)	- -	
89/21-90/1 97/11-12 3 97/28-30 3	0.0X0.6 DIA	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab RFO RCC Box RFO RCC Box & RCC Slab RFO RCC Slab Composite Girder PSC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUB Minor RUBX Minor								(۲ D¥رح मुंबई रेल	<u>لمعمالة</u> K. A. BIMT	PAT Itt of	FIL)	- VC	
89/21-90/1 97/11-12 97/28-30 98/2-4	.0X0.6 DIA 0X0.6 DIA 0X0.6 DIA	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modil Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab PSC Slab RFO RCC Box RCC Slab RFO RCC Slab RFO RCC Slab Composite Girder PSC Slab RFO RCC Slab RFO RCC Slab Composite Girder PSC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUB Minor RUBX Minor Minor								را لا D¥ور باھڈ خر	ربط ۲. A. BINT तवे विक	PAT सिक	FIL) Manag	- MC er-l	
89/21-90/1 97/11-12 3 97/28-30 3	.0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab PSC Slab RFO RCC Box RCC Slab RFO RCC Slab Composite Girder PSC Slab RFO RCC Slab RFO RCC Slab RFO RCC Slab RCC Slab RFC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB RFO Minor RUB RFO Minor RUBX Minor Minor Minor								را ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا	र. A. BINT तवे विक nief Pro ai RIV.	PAT सि क ject f	FIL) Manag Corp	er-l Ltd.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14	.0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab PSC Slab RFO RCC Box & RCC Slab RFO RCC Slab Composite Girder PSC Slab RCC Slab RCC Slab RCC Slab RCC Slab RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB RI-D Minor RUB RF-D Minor RUBX Minor RUBX Minor Minor Minor								(म D धुन्दु मुंबई रेट Dy. Ch Mumba	र. A. BINT तवे विक nief Pro ai Rly. \	PAT सि क ject f Vikas	FIL) Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor								(I D کی G باعذ کر Dy. Ch Mumba	र. A. BMT तवे विक iief Pro ai Rly. V	PAT NH गरा क ject I Vikas	۲IL) آلار Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB RI-D Minor RUB RF-D Minor RUBX Minor RUBX Minor Minor Minor								(म D धुन्दु मुंबई रेल Dy. Ch Mumba	र. A. BINT तवे विक nief Pro ai Rly. V	PAT सि कॉ ject f Vikas	FIL) Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor								(I D کی G باھڈ کر Dy. Ch Mumba	र. A. BINT तवे विक iief Pro ai Rly. V	PAT NH गरा क ject I Vikas	FIL) Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor								(۲ D کی G J Jas to Dy, Ch Murriba	र. A. BMT स्वे विक nief Prc ai Rly. V	PAT NH Tस क jject I Vikas	FIL) Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor								(F D & G Has to Dy. Ch Murriba	र. A. BMT स्वे विक nief Pro	PAT NH Tस क ject I Vikas	िIL) जिरिशन Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor								(F DY, C Dy, Ch Murriba	र. A. BMT स्वे विक nief Pro	PAT NH Tस क ject I Vikas	िIL) जिरिशन Manag Corp	er-l Lid.	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor								DY. Ch Murriba	सित्र तवे विक nief Pro ai Rly. \	ास कॉ oject ! √ikas	MR पिरिशन Manag Corp		
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor			MU	MB		RA		DY. Ch Murriba	सित्र तवे विक nief Pro ai Rly. \	ास कॉ oject ! √ikas	MR पिरिशन Manag Corp		
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor								Dy Ch Hat to Dy Ch Mumba	िति संव विक nief Pro ai Rly. \	NH ास क ject ! Vikas	Manag Corp.	ATIC	DN
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor								Dy Ch Hat to Dy Ch Mumba	िति संव विक nief Pro ai Rly. \	NH ास क ject ! Vikas	Manag Corp.	ATIC	DN
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor				DPO	SED) P A	ANVEL	DY.Ch Hat to Dy.Ch Murba KAS KAS	PM२ त्वे विक nief Pro ai Rly. \ COI	NH Iस क ject ! Vikas	URA Garage Corp.	ATIC	DN
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RFO RCC Box & RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor				DPO	SED) P A		DY.Ch Hat to Dy.Ch Murba KAS KAS	PM२ त्वे विक nief Pro ai Rly. \ COI	NH Iस क ject ! Vikas	URA Garage Corp.	ATIC	DN
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB REO Minor RUB REO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor				DPO	SED) P A	ANVEL	DY.Ch Hat to Dy.Ch Murba KAS KAS	PM२ त्वे विक nief Pro ai Rly. \ COI	NH Iस क ject ! Vikas	URA Garage Corp.	ATIC	DN
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor				DPO	SED) P A	ANVEL	DY.Ch Hat to Dy.Ch Murba KAS KAS	PM२ त्वे विक nief Pro ai Rly. \ COI	NH Iस क ject ! Vikas	URA Garage Corp.	ATIC	DN
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X2.50 X1.40 +1/2.44 1/2	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor		LE:	PRO	OPO:	SED 0/00) PA 0 1	ANVEL 30 29/60	DY.Ch Murba KAS (-KARJ 00= 29.(EM संव विक hief Pro ai Rly. \ COI	RPC DOI	ORA UBL	ATI(ING	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X2.50 X1.40 +1/2.44 1/2	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor			PRO	OPO:	SED 0/00) PA 0 1	ANVEL 30 29/60	DY.Ch Murba KAS (-KARJ 00= 29.(EM संव विक hief Pro ai Rly. \ COI	RPC DOI	ORA UBL	ATI(ING	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X2.50 X1.40 +1/2.44 1/2	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor			PRO AILS	OPOS	SED 0/00 BRI) PA 00 1 DG	ANVEL <u>70 29/6(</u> GES TO	DY.Ch Hat to Dy.Ch Murba KAS (-KARJ D0= 29.0 BE C(EM स्वे विक hief Pro ai Rly. \ COI AT] 600]	RPC DOI	ORA UBL	ATIC ING	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X2.50 X1.40 +1/2.44 1/2	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major Major ROB Tunnel RUB Minor RUB Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor			PRO AILS	OPOS	SED 0/00 BRI) PA 00 1 DG	ANVEL <u>70 29/6(</u> GES TO	DY.Ch Hat to Dy.Ch Murba KAS (-KARJ D0= 29.0 BE C(EM स्वे विक hief Pro ai Rly. \ COI AT] 600]	RPC DOI	ORA UBL	ATIC ING	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X9.15 1/2.50 X1.40 +1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 2 X36.0 1/3.05 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44 1/2.44	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major ROB Tunnel RUB Minor RUB RFO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor		DET	PRO AILS P	OPO OF I	SED D/00 BRI /EL) PA 00 1 DG	ANVEL 30 29/60	DY.Ch Hat to Dy.Ch Murba KAS (-KARJ D0= 29.0 BE C(EM स्वे विक hief Pro ai Rly. \ COI AT] 600]	RPC DOI	ORA UBL	ATIC ING	
89/21-90/1 97/11-12 3 97/28-30 3 98/2-4 98/12-14 98/20-24 98/20-24	0X0.6 DIA 0X0.6 DIA 0X0.6 DIA 1/0.46 \$ 1/0.76 \$ 1/0.38 \$ 2/4.45	PSC Girder	ROB(Cutting) ROB AQUADUCT Vavarle Tunnel Nallah ROB Kirawali Tunnel RUB (Modi Resort) Balancing culvert RUB Karjat Flyover Nallah Nallah LC-27 Pipe line crossing Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah Nallah	300 1225	m wide) 1X36.0 1X36.0 2x7 (PSC Slab) + 1x26.7(Plate Girder) 3/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X36.0 1/3.5 X2.5 1/6.10 1X2.50 X1.40 +1/2.44 1/2	Girder Composite Girder Composite Girder Composite Girder Tunnel PSC Slab PSC Slab PSC Slab RCC Box RCC Box RCC Slab RCC Slab	ROB ROB Minor Tunnel Major ROB Tunnel RUB Minor RUB RFO Minor RUBX Minor Minor Minor Minor Minor Minor Minor Minor Minor Minor		DET	PRO AILS	OPO OF I	SED D/00 BRI /EL) PA 00 1 DG	ANVEL <u>70 29/6(</u> GES TO	DY.Ch Hat to Dy.Ch Murba KAS (-KARJ D0= 29.0 BE C(EM स्वे विक hief Pro ai Rly. \ COI AT] 600]	RPC DOI	ORA UBL	ATIC ING	