# DEENDAYAL PORT AUTHORITY (Erstwhile: DEENDAYAL PORT TRUST)



Administrative Office Building Post Box NO. 50 GANDHIDHAM (Kutch). Gujarat: 370 201.

Fax: (02836) 220050 Ph.: (02836) 220038

Dated: 09/08/2024

#### www.deendayalport.gov.in EG/WK/5202 (D)/ Part/112

To,
The Director (Env.) & Member Secretary,
Forest & Environment Department,
Govt. of Gujarat,
Gujarat Coastal Zone Management Authority,
Block No.14, 8<sup>th</sup> floor, Sachivalaya,
Gandhinagar - 382 010.

Sub: CRZ Clearence for the Construction of Interchange cum Road Over Bridge (ROB) at LC-236 [Kutch salt junction] on N.H-141 to Nehru gate of Kandla port, Gandhidham, Kutch proposed by M/s Deendayal Port Authority (Erstwhile: Deendayal Port Trust) – Compliance of stipulated conditions mentioned in the CRZ recommendations reg.

Ref.: 1) GCZMA CRZ recommendation vides Letter No- ENV-10-2017-74-E dated 21.01.2018

- 2) DPT letter no. EG/WK/5202 (D)/Part/34 dated 02/07/2021
- 3) DPT letter no. EG/WK/5202 (D)/Part/147 dated 08/02/2022
- 4) DPT letter no. EG/WK/5202 (D)/Part/124 dated 29/06/2022
- 5) DPT letter no. EG/WK/5202 (D)/Part/225 dated 01/02/2023

Sir,

It is requested to kindly refer the above cited reference for the said subject.

In this connection, it is to state that, the Gujarat Coastal Zone Management Authority vide above referred letter dated 21.01.2018 had recommended the subject project of Deendayal Port Authority. Subsequently, the SEIAA, Gujarat had accorded the Environmental & CRZ Clearance vide EC Letter No. SEIAA/GUJ/EC&CRZ/8(b)/728/2020 dated 19.06.2020 for the subject project.

DPT had signed an MOU with M/s IPRCL vide Certificate no. IN-GJ95223355926842S dated 9/06/2020 wherein IPRCL was appointed as the Project Implementation Agency for the project.

Accordingly, as directed under Specific Condition No. 17 mentioned in the CRZ Clearance letter dated 21.01.2018 i.e. A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the DPT on a regular basis to this Department and MoEF&CC, GoI, please find enclosed herewith compliance report of the stipulated conditions (period upto **May 2024**) along with necessary annexure submitted by M/s IPRCL, for kind information & record please (**Annexure I**).

...Cont.....

Further as per MoEF&CC, Notification S.O.5845 (E) dated 26.11.2018, stated that "In the said notification, in paragraph 10, in sub-paragraph (ii), for the words "soft copy" shall be substituted". Accordingly, we are submitting herewith soft copy of the same via e-mail ID gczma.crz@gmail.com & direnv@gujarat.gov.in

This has the approval of the Chief Engineer, Deendayal Port Authority.

Thanking You.

Yours faithfully,

Dy. Chief Engineer & EMC(I/c)

Deendayal Port Authority

#### Copy to:

Shri Amardeep Raju
Scientist E, Ministry of Environment Forests & Climate change,
& Member Secretary (EAC-Infra I),
Indira Paryavaran Bhavan,
3rd Floor, Vayu Wing, Jor Bagh Road, Aliganj,
New Delhi - 110 003
Email Id: ad\_raju@nic

# ANNEXURE- I

Subject: Point-wise Compliance Status Report for CRZ clearance for proposed project for Constrcution of Interchange cum Road Over bridge at N.H 141 to Nehru Gate of Deendayal Port Trust, Kandla, Dist: Kutch by Deendayal Port Trust-reg.

Ref No: - GCZMA CRZ recommendation vide Letter No- ENV-10-2017-74-

S.		
No.	CRZ Conditions	Compliance Status
1	SPECIFIC CONDITIONS	
1.	The DPT shall strictly adhere to the provisions of the CRZ Notification, 2011	adhered to all the provisions of CP7
2.	Necessary permissions from different departments/ agencies under different laws/ acts shall be obtained before commencing any activity including the construction activities	Notification -2011.  The Consent to Establish (CTE) from the GPCB had already been obtained vide CTE No. 89489 granted by the GPCB vide letter no. PC/CCA-KUTCH 1449/GPCB ID 56869 dated 03/10/2017 attached as Copy Annexure II(in 4 pages) of the EC Compliance. Copy of approved GAD enclosed as Annexure III(in 2 pages) of the EC Compliance.
3.	The DPT shall ensure that adequate culvert/passages are provided during construction of road and there shall be no obstruction of free flow of water.	The Construction of the project has been completed on 29/05/2023. IPRCL Total 15 culverts has been constructed for the continuous free flow of water. (Copy of GAD of Culverts attached as Annexure VI (in 16 pages) of the EC Compliance).
4.	The DPT shall ensure that there shall not be any blockage of creek and free flow of water is maintained	The Construction of the project has been completed on 29/05/2023. IPRCL Total 15 culverts has been constructed for the continuous free flow of water.
5.	The DPT shall construct settling ponds and the installation of the oil receptor to prevent the entry of the surface run-off from fuel and other contaminants into the wells and other surface bodies along the corridor.	The Construction of the project has been completed on 29/05/2023.  Also, there were no wells in the project area and no spillage of fuel occurred in past at project area. The same will also be ensured in Maintenance period of project i.e. 4 years.
6.	No vehicle or equipment shall be parked or re fuelled near the water-body, so as to avoid contamination from fuel and lubricants	The Construction of the project has been completed on 29/05/2023.

S. No.	CRZ Conditions	Compliance Chair
		Compliance Status
		Also, the Vehicles and equipment are parked and refuelled at the site office area during maintenance period, and there is no sweet water body near the site office.
7.	Hot mix plants/concrete mix plants shall be located and operated in such a way that there shall be no Air pollution.	of the project has been
		Hot Mix Plant and Concrete mix plant is located 7 km away from project site and GPCB approval of same is enclosed as Annexure VII (in 6 pages).
8.	The DPT shall ensure that the quarry works, from which they will purchase raw materials, shall confirm to the norms and having necessary clearances from the respective authorities.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.  IPRCL has ensured that the quarry works, from which raw materials are purchased, conforms to the norms and had necessary
		clearances from the respective authorities.
	The DPT shall make MOU with raw material supplier quarry/hot mix plants etc.in such a way that they will comply with all the terms and conditions mentioned in the CCA/NOC issued by the Gujarat Pollution Control Board.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.  The raw materials are being purchased by the contractors directly hence M.O.U by DPT with supplier is not required. However, conditions mentioned in NOC by GPCB was compiled too.
	The DPT shall explore the possibility for using the fly ash @ 5%-10% to comply with the Fly Ash Notification.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.
		Fly ash @ 5% to 10% was used in the Concrete as well as in Reinforced Earth Filling.
11.	The DPT shall make sure that all the wastes arising from the project shall be disposed of at identified sites in environmentally sound manner.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.
	environmentally sound marrier.	The solid waste generated from construction

S.	CD7 Condition		
No.	CR2 Conditions	Compliance Status	
		site & labour camp was disposed off as per solid waste management Rules-2016.	
12.	There shall no discharge of any kind of wastewater/sewage/effluent into the creek/sea or in the CRZ areas.	The Construction of the project has been completed on 28/05/2023. The maintenance period is 4 years  During construction phase there was no discharge of any kind of wastewater/sowage/effty.	
		creek/sea or in the CRZ areas.	
13.	The DPT shall implement all the suggestions/recommendations given in the EIA report by their consultant M/s. Mantech Consultant Pvt. Ltd.	All the suggestions/ recommendations given in the EIA report by consultant are implemented by IPRCL (Project Implementation Agency).	
14.	No ground water shall be taped to meet with the water requirements during the construction and/or operation phases.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.	
		Fresh water requirement during the construction phase was fulfilled with Private Tanker supplying agency. It was ensured that no ground water was tapped in the construction phase.	
15.	The DPT shall not discharge any kind of waste including the construction debris into the river/estuary or into the CRZ areas.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.	
		During construction phase there was no discharge of any kind of wastewater/sewage/ effluent into the creek/sea or in the CRZ areas.	
16.	The DPT shall ensure that the construction camps are kept outside the CRZ areas and the construction labour are provided with adequate amnesties like drinking water, fuel, sanitation etc. to ensure that the existing environmental condition is not deteriorated by them.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.  It was provided adequate amenities like drinking water, fuel, sanitation, etc. to the construction labourers to ensure that the existing environmental condition is not deteriorated by them.	

S. No.	CRZ Conditions	Compliance Status
17.	The DPT shall regularly submit the half-yearly compliance report on the conditions stipulated by this department/SEIAA	IPRCL is being compiled the compliance report periodically.
18.	Any other conditions that may be stipulated by this department/SEIAA from time to time for environmental protection/management purpose.	Noted please.

# **ANNEXURE-11**

### <u>DEENDAYAL PORT AUTHORITY</u> (Erstwhile: DEENDAYAL PORT TRUST)



Administrative Office Building Post Box NO. 50 GANDHIDHAM (Kutch). Gujarat: 370 201.

Fax: (02836) 220050 Ph.: (02836) 220038

Date: 09/08/2024

To,
The Deputy Director General of Forests,
Ministry of Environment, Forest & Climate Change
Integrated Regional Office,
Gandhinagar, A wing-407 & 409
Aranya Bhavan Near CH-3 Circle
Sector 10A, Gandhinagar - 382010
Email: iro.gandhingr-mefcc@gov.in

Sub: Environment & CRZ Clearance for the Construction of Interchange cum Road Over Bridge (ROB) at LC-236 [Kutch salt junction] on N.H-141 to Nehru gate of Kandla port, Gandhidham, Kutch proposed by M/s Deendayal Port Trust - Compliance of stipulated Conditions mentioned in the Environmental & CRZ Clearance reg.

- Ref.: 1) EC & CRZ Clearance accorded by the State Level Environment Impact Assessment Authority (SEIAA), Gujarat letter no. SEIAA/GUJ/EC&CRZ/8(b)/728/2020 dated 19.06.2020.
  - 2) DPT letter no. EG/WK/5202 (D)/Part/32 dated 02/07/2021
  - 3) DPT letter no. EG/WK/5202 (D)/Part/146 dated 08/02/2022
  - 4) DPT letter no. EG/WK/5202 (D)/Part/124 dated 29/06/2022
  - 5) DPT letter no. EG/WK/5202 (D)/Part/224 dated 01/02/2023

Sir,

It is requested to kindly refer above cited reference for the said subject.

In this connection, it is to state that, the SEIAA, Gujarat had accorded Environmental & CRZ Clearance for the subject proposal vide above referred letter dated 19.06.2020.

DPT had signed an MOU with M/s IPRCL vide Certificate no. IN-GJ95223355926842S dated 9/06/2020 wherein IPRCL was appointed as the Project Implementation Agency for the project

Accordingly, please find enclosed herewith point-wise compliance report of the stipulated conditions mentioned in the EC & CRZ Clearance letter dated 19.06.2020 (Annexure 1) & Monitoring Report in Data Sheet (Annexure 2) (Period up to June, 2024) submitted by M/s IPRCL for kind information and record please.

cont
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Further, as per the MoEF&CC, Notification S.O.5845 (E) dated 26.11.2018, stated that "In the said notification, in paragraph 10, in sub-paragraph (ii), for the words "hard and soft copies" the words "soft copy" shall be substituted". Accordingly, we are submitting herewith soft copy of the same via e-mail ID iro.gandhingr-mefcc@gov.in

This has the approval of the Chief Engineer, Deendayal Port Authority.

Thanking You.

Yours faithfully,

Dy. Chief Engineer & EMC(I/c)
Deendayal Port Authority

## Copy along with pointwise compliance of stipulated conditions, to:

1. Shri Amardeep Raju,
Scientist E, Ministry of Environment
forest & climate change,
& Member Secretary (EAC-Infra 1),
Indira Paryavaran Bhavan,
3<sup>rd</sup> floor, Vayu wing, Jor bhag Road,
Aliganj,
New Delhi - 110 003
E-mail: ad.raju@nic.in

2. Shri Prasoon Gargav, Scientist E & Regional Director, Central Pollution Control Board, Parivesh Bhavan, Opp. VMC Ward Office No.10, Subhanpura, Vadodara – 390 023 E-mail: prasoon.cpcb@nic.in

Shri T. C. Patel,
 Unit Head, Kachchh,
 Gujarat Pollution Control Board,
 Paryavaran Bhavan,
 Sector 10 A, Gandhinagar – 382 010
 E-mail: kut-uh-gpcb@gujarat.gov.in

4. The Regional Officer,
Gujarat Pollution Control Board,
Regional office (East Kutch),
Administrative Office Building,
Deendayal Port Trust, Gandhidham.
E-mail: ro-qpcb-kute@gujarat.gov.in

# **ANNEXURE-1**

#### **Monthly Project Status Report**

(To be submitted for each PPP and non-PPP projects by 10th of every month for the project's progress of previous month)

_		h PPP and non-PPP projects by 10th Deendayal Port Authority	of every month for the	project's progress or i	previous month)		
1	Port Name		cum Road Over Brid	ne (ROR) at I C-236	(Kutch Salt Junct	ion) on NH-141 in the	
2	Project Name	Construction of Interchange cum Road Over Bridge (ROB) at LC-236 (Kutch Salt Junction) on NH-141 in the State of Gujarat under EPC mode.					
3	Period of this report	May' 2023					
4	Project Mode	EPC Mode	Project Cost (Port		Rs.254.92 Cr.	Cr.	
5	Goncessionaire/EPC	M/s Niraj-Patel JV, Gandhidham, Kutch, Gujarat ha been appointed by M/s IPRCL.			N.A.		
6	Ministry's Approval	i) Project approved by the SF ii)Ministry vide OM dtd: 26. Deendayal Port vide R. No direct cost plus basis.	6.2018 directed to 1 o. 64, dtd: 07/08/20	DPT to transfer the 18 has transferred t	project to IPRCL,	. accordingly Board of RCL, Mumbai IPRCL on	
7	Port's Nodal officer for project	Shri Srinivas Rao, Dy Chief Er	Shri Srinivas Rao, Dy Chief Engineer, Deendayal Port Authority.				
8	Start Date of RFQ	N.A.	Completion Date			N.A.	
9	Start Date of RFP	02.11.2018	Completion Date	of RFP	24	.07.2019	
10	LOI Date/LOA Date	25.02.2020	Date of Signing o	f Concession	23	.03.2020	
11	Award Date of Concession/EPC	23.03.2020.	Start Date of Con	struction	01	.10.2020	
12	Target COD date	29.05.2023	Implementation	time (as per DPR)	32	? Months	
13	Cumulative Project Progress	Physical Progress (Port's Scope)	N.A.	Financial Progre (Port's Scope)	SS	N.A.	
	achieved till date	Physical Progress (PPP/captive/EPC's Scope)	100%	Financial Progre (PPP/captive/EF		98%	
		Shortfall in Physical Progress	N.A.	Shortfall in Fina		N.A.	
		(Port's Scope)	N.A.	Progress (Port's	Scope)	N.A.	
14	Delay in Overall Project, if any (Provide updated Annexure-A and	Shortfall in Physical Progress	N.A.	Shortfall in Fina	ncial	N.A.	
	Annexure-B with this report)	(PPP/captive/EPC's Scope)	N.A.	Progress (PPP/c Scope)	Progress (PPP/captive/EPC's Scope)		
15	Project Progress achieved in	Physical Progress (Port's Scope)	N.A.	Financial Progre (Port's Scope)	SS	N.A.	
	Last Month	Physical Progress (PPP/captive/EPC's Scope)	1%.	Financial Progre (PPP/captive/EP		3%	
		1 .		Nil			
		2 Nil					
16	Main Accomplishments in the	3 Nil					
	Last Month	4 Nil					
	(Port's Scope)						
		141					
	Main Accomplishments in the	1		.30 km - Completed			
17	Last Month	BC: 14.89 km - Completed					
	(PPP/captive/EPC's Scope)	3	Miscelland	eous: 1.0 - Complete	ed		
18	Scope Change, if any			N.A.			
19	Schedule Change, if any			N.A.			
20	Cost Change, if any			N.A.			
21	Issues/impediments, if any	l.		N.A.			
22	issue pending, with any central Govt ministry, causing delay	N.A.					
23	Safety Performance	Number of Safe Man-hours			N.A.		
		Near Misses	N.A.	Lost Time Incider	nts	N.A.	
		First Aid Cases	N.A.	Number of Fatali	ties	N.A.	
24	Employment Details	Direct Employment (Port's Scope)	N.A.	Direct Employme Scope)	ent (Port's	N.A.	
		Direct Employment (PPP/captive/EPC's Scope)	N.A.	Direct Employme (PPP/captive/EP		N.A.	

6.6.7027 Page 1 of 4

	Shri Srinivas Rao, Dy Chief Engineer, Deendayal Port Authority.	
This Report Prepared by	Shri Srinivas Rao, Dy Crie) Engineer, Seeman	
	Shri Srinivas Rao Dy Chlef Engineer,, kphdivision@qmaill.com	
This Report Reviewed by	Shri Srinivas Rao Dy Chiej Engineer,, Romanista G	

6.6.223

(S.Revanasiddappa)

Addl. General Manager(P)

Addi. General Manager (\*)
IPRCL / Gandhidham.
Addi. GE. ERAL MANAGER. (P)
IPRCL / GANDHIDHAM

Note; Annexure-A and Annexure-B shall be provided along with this report

## **Project Milestones (Port's Scope)**

(All milestones to be planned and indicated below from Ministry's approval date to COD of project)

	Milestone Description	Target/Planned completion date	Actual Completion Date	Reason for Delay, if any
Month		A	В	С
October 2020 to March 2021	Project Milestone I (10%)	31.03.2021	31,01.2021	N.A.
April 2021 to September 2021	Project Milestone II (20%)	30.09.2021	28.02.2021	N.A.
October 2021 to March 2022	Project Milestone III (45%)	31.03.2022	31.03.2022	N.A.
April 2022 to September 2022	Project Milestone IV (70%)	30.09.2022 (Extension granted upto 31.01.2023)	31.01.2023	N.A.
October 2022 to March 2023	Project Milestone V (100%)	31.03.2023 (Extension granted upto 29.05.2023)	29.05.2023	Work Completed in all respect.

#### Notes:

1. Column 'A' above should be filled only once based on original project schedule

2. Only Column 'B' to be updated on monthly basis for respective row

3. Detailed reasoning to be provided in column 'Ç'

# Project Milestones (PPP/Captive/EPC's Scope)

(All milestones to be planned and indicated below from the Ministry's approval date to COD of project)

	Milestone Description	Target/Planned completion date	Actual Completion Date	Reason for Delay, if any
Month		A	В	С
0.4-b2020 to	Project Milestone I (10%)	31.03.2021	31.01.2021	N.A.
October 2020 to March 2021			28.02.2021	N.A.
April 2021 to September 2021	Project Milestone II (20%)	30.09.2021		
October 2021 to March 2022	Project Milestone III (45%)	31.03.2022	31.03.2022	N.A.
April 2022 to September 2022	Project Milestone IV (70%)	30,09.2022 (Extension granted upto 31.01.2023)	31.01.2023	N.A.
October 2022 to March 2023	Project Milestone V (100%)	31.03.2023 (Extension granted upto 29.05.2023)	29.05.2023	Work Completed all respect.

#### Notes:

1. Column 'A' above should be filled only once based on original project schedule

2. Only Column 'B' to be updated on monthly basis for respective row

3. Detailed reasoning to be provided in column 'Ç'

Subject:

Point wise compliance of stipulated conditions of EC & CRZ Clearance for "Construction of Interchange cum Road Over Bridge (ROB) at LC-236 [Kutch Salt Junction] on NH-141 to Nehru gate of Kandla port, Gandhidham, Kutch by M/s Deendayal Port Trust".

Reference:

EC & CRZ Clearance issued by SEIAA, Gujarat vide EC Letter No. SEIAA/GUJ/EC&CRZ/8(b)/728/2020 dated 19<sup>th</sup> June, 2020

#### A. 1 Specific Conditions: -

SI. No.	Stipulated Conditions	Compliance
1.	All the provisions of CRZ Notification -2011 shall be strictly adhered to and no activity in contradiction to the provisions of CRZ Notification - 2011 shall be carried by the project proponent.	It is hereby assured that IPRRCL (Executive agency) will adhere to all the provisions of CRZ Notification - 2011. Pointwise compliance to the CRZ recommendation issued by the GCZMA is attached as <b>Annexure I</b> (in 3 pages).
2.	The project proponent shall strictly ensure that no creeks or flow of water are blocked due to any activity at the project site.	It is hereby assured that IPRRCL (Executive agency) has ensured that no creeks or flow of water are blocked due to any activity at the project site.  The pipe culverts were constructed at required location in creek for free flow of water.
3.	The project proponent shall obtain all other necessary clearances / permissions from concerned authorities / agencies required for undertaking the proposed project.	The Consent to Establish (CTE) from the GPCB had already been obtained vide CTE No. 89489 granted by the GPCB vide letter no. PC/CCA-KUTCH 1449/GPCB ID 56869 dated 03/10/2017 attached as Copy Annexure II(in 4 pages).
4.	It will be the responsibility of the project proponent to obtain prior clearances/approval & ensure compliances under all other relevant Acts/ Rules/ Regulations/ Guidelines/ instructions' Court orders/ Tribunal orders as applicable to this project as per the prescribed time limits. All the Terms & Conditions Stipulated in the clearances/ approvals shall be strictly adhered to.	The Consent to Establish (CTE) from the GPCB had already been obtained vide CTE No. 89489 granted by the GPCB vide letter no. PC/CCA-KUTCH 1449/GPCB ID 56869 dated 03/10/2017 attached as Copy Annexure II.  Copy of approval of GAD enclosed as Annexure III(in 2 pages).  Terms & Conditions Stipulated in the clearances/ approvals are being strictly adhered too.
5.	The approval of competent authority shall be obtained for structural safety of the bridge due to earthquake, including protection measures from lightening etc. Copy of approved structural drawings & certificate from the concerned competent authority shall be submitted to	The Structural design done by design consultant and checked by proof consultant and safety consultant. A third-party independent design audit is done by I.I.T, B.H.U, for the design of bridges and structure with a span of 15.0m or more.  The audit report is attached as Annexure IV(in 14 pages)(.

	SEAC/ SEIAA before commencement of work for the project.	
6.	Structural design of the project shall strictly adhere to the seismic zone norms for earthquake resistant structures.	The Structural design of the project is done considering seismic zone-V for earthquake resistant structure.
7.	Traffic study shall be carried out periodically to develop & implement the scheme to ensure smooth flow of traffic from & to the proposed ROB.	Traffic diversion plan has been prepared considering smooth flow of traffic and same is approved by NHAI. The approval letter is attached as <b>Annexure V(in 3 pages)</b> .
8.	DPT shall ensure that there shall not be any blockage of creek and free-flow of water is maintained.	It was ensured that no creeks or flow of water are blocked during execution of the project work.
9.	The DPT shall construct settling ponds and the installation of the oil receptor to prevent the entry of the surface run-off from fuel and other contaminants into the wells and other surface water bodies along the corridor.	There are no wells in the project area and it is ensured that there is no spillage of fuel at project area.
10		There was no water body near the site office.
11	The DPT shall implement all the suggestions/ recommendations given in the EIA report by their consultant M/S Mantec Consultant Pvt Ltd.	All the suggestions/ recommendations given in the EIA report by consultant are implemented by IPRRCL (Executive agency).

# A 2 CONSTRUCTION PHASE:

12.	The traffic diversion plan shall be finalized in consultation with CE (NH), Gujarat & RO, Gandhinagar and get approved from the concerned competent authority before starting the construction activity for the proposed ROB. Copy of the same shall be submitted to SEAC/ SEIAA.	Traffic diversion plan approved by National highway Gujarat & RO Gandhinagar vide Letter dated: RW/GNR/NH/HA/NOC/03/782 dated 14.10.2020. The same is attached as Annexure V(in 3 pages).
13.	DPT shall ensure that adequate culvert/passages are provided during construction of road and there shall be no obstruction of free flow of water.	IPRCL has ensured that adequate culvert, Passages are provided provided during construction of road and there is no obstruction of free flow of water.

14.	Hot-mix plants/Concrete mix plants shall be located and operated in such a way that there shall be no Air Pollution.	Only GPCB approved Hot-mix plants/Concrete mix plant was allowed to operate for the project.
15.	The DPT shall ensure that the quarry works, from which they will purchase raw materials, shall conform to the norms and having necessary clearances from the respective authorities.	IPRCL has ensured that the quarry works, from which raw materials are purchased, conforms to the norms and had necessary clearances from the respective authorities.
16.	raw material supplier quarry/hot mix plants etc., in such a way that they will comply with all the terms and conditions mentioned in the CCA/NOC issued by the Gujarat Pollution Control Board.	The raw materials are being purchased by the contractors directly hence M.O.U by DPT with supplier is not required. However, conditions mentioned in NOC by GPCB was complied too.
17.	Fresh water requirement during the construction phase shall be 95.0 KL/day and it shall be met through the water tankers for water supply from Gujarat water supply and sewerage board. No ground water shall be tapped during the construction phase.	Fresh water during the construction phase was met with Gujarat water supply and sewerage board. It was ensured that no ground water was tapped during the construction phase.
18.	There shall no discharge of any kind of wastewater/sewage/ effluent into the creek/sea or in the CRZ areas.	IPRCL was ensured that no discharge of any kind of wastewater/sewage/ effluent into the creek/sea or in the CRZ areas.
	Sewage generated during the construction phase shall be treated in septic tanks connected to water recycling chambers of adequate capacity & comprising of adequate treatment facilities as proposed. Treated water ~ 20.0 KL/day conforming to GPCB norms shall be used for greenbelt development and dust suppression.	septic tank.
20	No construction debris and / or any other type of waste / wastewater shall be disposed of in CRZ areas.	No construction debris and / or any other type of waste / wastewater was disposed of in CRZ areas.

21.	Construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages. The debris shall be removed from the construction site immediately after the construction is over.	The generated debris was removed from the site regularly to avoid any blocking the roads and public passages.
	It shall be ensured that there is no adverse impact on the drainage of the area due to the construction activities.	IPRCL was ensured that there was no adverse impact on the drainage of the area during construction activities.
23.	Solid waste likely to be generated from construction site and labour camps during construction phase will be collected and disposed of as per the Solid Waste Management Rules — 2016.	The EPC contractor has collected, handled & disposed off, the above substances as per GPCB guidelines regularly. Solid waste generated from construction site & labour camp was disposed off as per solid waste management Rules-2016.
24.	The construction camps shall be kept outside the CRZ areas and the construction labour shall be provided with adequate amenities like drinking water, fuel, sanitation, etc. to ensure that the existing environmental condition is not deteriorated by them.	EPC contractor has provided adequate amenities like drinking water, fuel, sanitation, etc. to the construction laborers.
25.	Ready Mix Concrete should be used so far as possible. Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.	Ready mix concrete plant was ensured in contractors premises to reduce use of water carrying agent and plasticizers used for works.

### A.3 OPERATION PHASE: A.3.1 WATER

26.	Total water requirement during the operation phase for dust suppression & greenbelt development shall be 15.0 KL/day which shall be met through water supply system of Gujarat Water Supply and Sewerage Board.	It is being ensured that during operation phase water is being purchased from GWSSB.
27.		It was ensured that no bore-well is being constructed in the project area.
28.	The storm water from the bridge shall be properly channelized.	The project site area has saline water and impervious soil strata. The

	Provisions shall be made for ground water recharge through rain water harvesting as per the details submitted. Before recharging the run off pretreatment must be done to remove suspended matter.	ground water recharge for rain water harvesting not required.
29.	Rainwater harvesting system shall be properly maintained & kept functional and periodical cleaning of the same shall be undertaken specifically including the period before onset of the monsoon.	The project site area has saline water and impervious soil strata. The ground water recharge for rain water harvesting not required.
30.	The water meter shall be installed and records of monthly water consumption shall be maintained regularly.	Not applicable

## A. 3.2 AIR

31	D. G. sets (3 x 500 KVA) proposed as backup power shall be of	The D.G set conforming to emission limit prescribed under EPA rules was
	enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.	ensured.
32	The gaseous emissions from the D.G. Sets shall conform to the emission limits prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.	The D.G set conforming to emission limit prescribed under EPA rules was ensured.
33	The stack height of the D.G. sets shall be equal to the height needed for the combined capacity of all proposed D.G. sets.	It was ensured that the stack height of the DG sets equal to the height required for the DG set.

# A. 3.3 SOLID / HAZARDOUS WASTE

	No hazardous waste during the project co	The project must strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary) Rules 2008. Authorization from the GPCB must be obtained for collection /
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	treatment / storage / disposal of hazardous wastes.	
35.	Discarded Containers, /Carboys and Used/ Lubricating Oil shall be sold to the authorized recyclers.	IPRCL was ensured that Container/ Carboys and Used/Lubricating oil sold to the authorized recyclers only.
36.	The project proponent shall have to ensure that plastic waste is segregated and disposed of by selling it to the registered recyclers.	It was ensured that plastic waste was segregated and disposed off by selling it to the registered recyclers.
37.	Necessary arrangements shall be made for safe disposal of municipal solid wastes as per the provisions of the Solid Wastes Management Rules, 2016 as amended from time to time and solid wastes shall not be released in marine water / coastal area in any case.	It was ensured that the Solid wastes are disposed in compliance to the Solid Waste Management rules-2016.

A. 3.4 SAFETY:

A. 3.	3.4 SALLII.		
38.	Dedicated power back up system shall be provided in the case of power failure & emergency of fire water pumps.	It was ensured that the Dedicated power back up system during construction of the Project.	
39.	Compulsory training, for the first aid and firefighting along with regular mock drill shall be imparted to the Security personnel and D.G. Operator.	It was ensured that the training for the first aid to security person and DG operator.	
	First Aid Boxes shall be provided in adequate quantity at strategic locations.	Sufficient First aid boxes was provided at site office during construction of Project.	
41.	Transportation of materials shall be as per the Motor Vehicle Act & Rules.	It was ensured that the Transportation of materials are done as per Motor Vehicle Act & Rules.	

# A. 3.5 CLEANER PRODUCTION, ENERGY CONSERVATION AND WASTE

42. Energy conservation measures like maximum use of natural light, wirk wentilation through architecture design, solar based LED lights landscaped and drive way area LED/CFL light for walk way are etc. shall be provided as propose	energy conservations durin construction of the project.
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A. 3.6 PARKING / TRAFFIC CONGESTION:

43. No public space shall be used or blocked for the parking and the trained staff shall be deployed to	equipment's are done at site office
trained ou	

İ	guide the visitors for parking and helping the senior citizens and physically challenged people.	area and the visitors are guided by trained staff.

### A. 3.7 GREEN BELT

be developed as proposed. Plantation along the bridge and road shall be done with native	It was ensured that the Green belt area was developed as per the tender provision.
varieties.	

#### **B. GENERAL CONDITIONS:**

## 1. PRE -CONSTRUCTION AND CONSTRUCTION

45.	Environment Management Cell shall be formed, which shall supervise and monitor the environment related aspects of the project during construction and operational phases in addition to observance of Gujarat Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Rules 2003.	The environment related aspects of the project during construction and operational phase are supervised by project implementation agency. Also, a dedicated Environment Management Cell has been formed for day-to-day supervision and monitoring of the environment related aspects of the project during construction and operational phases.
46.	Prior permission from the competent authority shall be obtained for cutting of the existing trees before site preparation work is commenced.	The permission was obtained from the competent authority for cutting of the existing trees before the commencement of the project work.
47.	. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	It was ensured that to reduce the water consumption, curing agents and super plasticizers was used for construction of the project work.
48		There was no building with in the project site area. However temporary wind shield was provided at required locations.

49.	Regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	5
50.	The roads inside the project area and roads connected to the main road shall be paved or shall be water sprinkled to avoid the fugitive emissions during vehicular movement.	Water sprinkling are done in diversion road to avoid the fugitive emissions during vehicular movement.
51.	Material shall be covered during transportation to avoid the fugitive emission.	Materials are covered by tarpaulin during transportation for particular items.
52.	Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured.	Sand was stored properly to avoid fugitive emission.
53.	Structural design of the project shall strictly adhere to the seismic zone norms for earthquake resistant structures.	Structural design considering seismic zone-V and checked by proof consultant and safety consultant. A third-party independent design audit is done by IIT, BHU, Varanasi for design of bridges, and structure with span of 15.00m or more.
54.	The planning, designs and construction of all buildings shall be such as to ensure safety from fire.	N/A as this is a road project.
55.	The project proponent shall ensure maximum employment to the local people.	It was ensured that the local people employed considering the nature of work.
56.	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	sanitary and hygienic measures were provided before starting the
57.	Provision shall be made for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, créches, electricity & ventilation, canteen, rest rooms, safe disposal system for garbage, first aid, medical and emergency facilities etc. to ensure that they do no ruin the existing environmental condition. The housing may be in the form of temporary structures to be	Temporary houses were constructed for labour at work site area with necessary infrastructure & facilities.  Addl. GENERAL MANAGER. (IPRCL/GANDHIDHAM)

	removed after completion of the project.	
58.	Adequate personal protective equipments shall be provided to the construction workers to ensure their safety and the project proponent shall ensure its usage by the labourers.	Sufficient PPE kits were provided to the workers for safety.
59.	First Aid Box shall be made readily available in adequate quantity at all the times.	Sufficient First aid boxes were provided at work site office.
60.	First Aid Box shall be made readily available in adequate quantity at all the times.	Sufficient First aid boxes were provided at work site office.
61.	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments.	It was ensured that the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments
62.	The overall noise level in and around the project area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation.	All the necessary arrangements were adopted for regulating the noise generation even though the project site is far away from the residential area.
63.	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	All the necessary arrangements were adopted for regulating the noise generation even though the project site is far away from the residential area.
	The noise generating equipments, machinery and vehicles shall not be operated during the night hours and shall be maintained properly to avoid generation of high noise due to wear and tear.	All the necessary arrangements were adopted for regulating the noise generation even though the project site is far away from the residential area.
65	. Use of diesel generator sets during construction phase shall be strictly with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	D.G set with acoustic enclosure was provided conforming to the EPA rules
66	<ul> <li>Safe disposal of wastewater and municipal solid wastes generated during the construction phase shall be ensured.</li> </ul>	Solid wastes and water waste wer disposed properly by making soapits.

	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	As excavated material is saline in nature, it cannot be used for horticulture/ Landscape.
68.	The municipal solid wastes shall be properly collected and segregated at source.	Solid wastes are segregated at source and then collected and disposed at designated places.
	Recyclable solid waste [paper, cartons, plastic, polythene bags, glass etc.] shall be sold to the scrap vendors.	Collected Solid waste were sold to the scrap vendors.
70.	Non-recyclable municipal solid waste shall be transferred to the nearest designated waste collection point of the concerned local authority.	Collected Solid waste were sold to the scrap vendors.
71.	Provisions of Solid Waste Management Rules-2016 shall be strictly adhered to.	Solid waste management Rules- 2016 were strictly adhered.
72.	The project must strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary) Rules 2008. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	It was ensured that the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary) Rules 2008. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes
73.	Construction materials and debris	Construction of project work is completed on 29.05.2023 and here is no construction materials and debris are available at work site.
	in construction debris shall be reused in construction of roads, levelling the site etc. Waste packaging material (like used cement bags, waste paper, cardboard packing material), metal scraps etc. shall be sold to recyclers or shall be sent to the nearest municipal solid waste landfill site.	Construction debris were removed from work site.
75	The area temporarily used for storing the construction material and other activities shall be reclaimed by adequate Plantation.	plantation.
76	5. Excavated earth to be generated during the construction phase shall be utilized within the premises to	removed from work site.

	the maximum extent possible and balance quantity of excavated earth shall be disposed of with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.	
	Provisions of Construction & Demolition Waste Management Rules-2016 shall be strictly adhered to.	Noted please.
78.	Vehicles hired for bringing construction material at the site shall be in good conditions and conform to applicable air and noise emission standards and shall be operated only during day time and non-peak hours.	Noted please.
79.		Fly ash was used for ready mix concrete work.
80.		Fly ash was used for ground improvement work and RE wall construction work.
81.		Used as per requirement.

# **B2. OPERATION PHASE AND LIFE TIME:**

82.	Low water consuming devices shall be provided. Fixtures for showers, toilet, flushing and drinking shall be of low flow either by use of aerators/ diffusers or pressure reducing devices etc.	
83.	A water meter shall be installed on rain water harvesting & ground water recharge well system &	As the project site area is saline in nature rain water harvesting is not possible.

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	compliance report of the same shall be submitted to concerned authorities.	
84.	Used oil shall be sold only to the registered recycler.	Used oil was sold to the registered recycler.
85.	Provisions of Solid Waste Management Rules-2016 shall be strictly adhered to.	Solid waste management Rules- 2016 are strictly followed.
86.	Requisite firefighting facilities as per the requirement of NBC and Gujarat Fire Prevention and Life Safety Measures Act- 2013 along with the rules & regulations made there under shall be provided.	It was provided at site office as is a road project.
87.	First Aid Box shall be made readily available in adequate quantity at all the times.	Sufficient First aid boxes were provided at site office.
88.	Necessary emergency lighting system along with emergency power back up system shall be provided. Further, necessary auto glow signage at all appropriate places shall be provided to guide the people towards exits and assembly points during emergency.	Necessary sign boards were provided for vehicular traffic and stand by power supply was also provided wherever necessary.
89.	The overall noise level in and around the project area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibrations dampers etc. on all sources of noise generation including D.G. Sets. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules.	Stand by power supply arrangements were provided confirming to the standards prescribed under the Environment (Protection) Act and Rules.
90.	Traffic congestion near the entry and exit points from the roads. adjoining the proposed. project site shall be avoided. No public space including the service road shall be used-or blocked for the parking.	Proper diversion road with signages as approved by NH Authorities are provided without parking space so that no blocking occurs.
91.		The same was provided wherever required.

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	conforming to the Bureau of Energy Efficiency norms.	
92.	The transformers and motors, shall have minimum efficiency of 85%.	The same was provided wherever required.
93.	Only variable frequency motor drives shall be used in project.	The same was provided wherever required.
94.	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting: In addition, the provision for solar water heating system shall also be provided.	The same was provided wherever required.
95.	The area earmarked as green area shall be used only for plantation and shall not be altered for any other Purpose.	The area earmarked as green area were used only for the plantation purpose.
96.	Drip irrigation/flow volume, low angle sprinkler system shall be used for the lawns and other green area including tree plantation.	Sprinkler system is being used for the lawns and other area including tree plantation.
97.	The project proponent shall inform to SEAC. / SEIAA regarding the transfer of management responsibility to the Society/Association to be formed for the proposed Project with all the supporting documents. The Society Association formed for further management of the proposed project shall be responsible for compliance of all the conditions stipulated in the Environmental Clearance order.	N/A
98.	Environmental Clearance granted for the project on the basis of documents related to land possession submitted shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of the project and mentioned in the EC.	The project is executed within the land already under possession of DPT, as submitted in the application for Environment Clearance.
99.	All other statutory clearances such as NLA. permission, approvals for storage of diesel from PESO, Fire Department, Airports Authority of India etc., if	N/A.

	applicable shall be able to	
	applicable, shall be obtained by	
	the project proponent from the	
100	competent authorities.	
100	. All the conditions as may be stipulated in the NLA. order,	N/A.
	Building Use permission, NOC	-
	obtained from Fire Department	
	etc. shall be strictly complied	
	with.	
101.	The project management shall	The environment protection
	also comply with all the	
	environment protection measures.	
	risk mitigation measures and	complied.
	safeguards proposed by them.	
102.	continuitients/	Noted please.
	undertakings given to the SEAC	11 199
	during the appraisal process for	
	the purpose of environmental	
	protection and management shall	
102	be strictly adhered to.	
103.	The project proponent shall also	Noted please.
	comply with any additional	
	condition that may be imposed by	
	the SEAC or the SEIAA or any	
	other competent authority for the purpose for the environmental	
	protection and management.	
104	At the terms & conditions	Conditions prescribed in the EIA
104.	prescribed in the amendment of	notification 2006 are compiled.
	EIA Notification — 2006 published	3
	by the MoEF&CC vide its	İ
	Notification No, S.O. 3999(E)	
	dated 9th December, 2016 shall	
	be complied with letter & spirit.	
105.	The project proponent shall	Noted please.
	strictly comply with the Gujarat	
	Building and other Construction	
	Workers' (Regulation of	
	Employment & Conditions of	
	Service) Rules 2003 as well as Gujarat Lifts & Escalators Rules as	
	amended from time to time.	
106.	-	Construction work is completed as
100.	modifications in the project likely	per the approved environment
1	to cause environmental impacts	clearance.
	shall be carried out without	
	obtaining prior Environment	
	Clearance from the concerned	
	authority.	
107		As clarified in above points.
	enforced, inter-alia under the	,
	provisions of the water	

(Prevention	&	Control	
Dollution		COLLLO	of
Pollution}	Act,	1974,	Air
(Prevention	8	Control	of
Pollution)	Act,	1981.	the
Environment	(P	rotection)	Act
1986 and th	е На	zardous W	astes
(Managemen	t Har	ndling and	Tran
boundary) R	ules,	2008. Bui	Idina
and Other Co	onstr	uction Wor	kers'
(Regulation	of F	mploymer	1+ 0.
Conditions of	Sen	vice) Act 1	006
The Gujarat	Lifts	and Forely	996,
1-1- 2000	LIILS	and Escal	ators
Act-2000 a	along	with	their
amendments	and	rules.	

### **B. OTHER CONDITIONS**

1	08	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.IN dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
		- the state of all

An amount of Rs. 1.75 Cr, has been earmarked as the CER budget for the project. The same shall be spent in different phases and the same shall be notified.

109. The project authorities shall earmark adequate funds to conditions the implement Forest by stipulated Environment Department., GOG / SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

Noted please.

110. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website

Advertisement published in EXIM INDIA (in English) and Kutchuday (in Gujarati) newspapers on dated 26/06/2020 and newspaper cuttings already sent to Regional office, Bhopal, MoEF&CC vide letter No.: EG/WK/4847(D)/III/922 dated

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be adve from the letter, newspap circulate which si language A copy e forwarde Regional	A/SEAC/GPCB. This shall rtised within seven days date of the clearance in at least two local ers that are widely d in the region, one of hall be in the Gujaratic and the other in English, ach of the same shall be d to the concerned Office of the Ministry.	are attached as Annexure – VIII(in 2 pages).
half-year respect environm and cond the respect concerned	be mandatory for the management to submit ly compliance report in of the stipulated prior tental clearance terms ditions in soft copies to regulatory authority d and shall be uploaded to of Gujarat Real Estate by Authority, on 1st June December of each year.	Compliance report is being submitted periodically.
adhere to	ct authorities shall also the stipulations made ujarat Pollution Control	It is ensured that GPCB stipulations are adhered to.
inform the of MoEF&C date of fir approval concerned	ject authorities shall be GPCB, Regional Office CC and SEIAA about the nancial closure and final of the project by the lauthorities and the part of the project.	<ul><li>(a) Date of start of project 01/10/2020.</li><li>(b) Schedule date of completion 30/03/2023.</li><li>(c) Actual date of completion 29/05/2023.</li></ul>
114. The SEI suspend implemen above co satisfactor clearance	The state of the s	It is hereby ensured that conditions provided in the clearance issued by SEIAA will be implemented properly.
environme with the N if preferre days as p 16 of the Act, 2010		Point Please.
misleading which is r	on of any false or g information or data naterial to screening or r appraisal or decision	

on the application makes this environment clearance cancelled.

# **ANNEXURE-11**

# DEENDAYAL PORT AUTHORITY (Erstwhile: DEENDAYAL PORT TRUST)



Administrative Office Building Post Box NO. 50 GANDHIDHAM (Kutch). Gujarat: 370 201.

Fax: (02836) 220050 Ph.: (02836) 220038

Dated: 09/08/2024

#### www.deendayalport.gov.in EG/WK/5202 (D)/ Part/112

To,
The Director (Env.) & Member Secretary,
Forest & Environment Department,
Govt. of Gujarat,
Gujarat Coastal Zone Management Authority,
Block No.14, 8<sup>th</sup> floor, Sachivalaya,
Gandhinagar - 382 010.

Sub: CRZ Clearence for the Construction of Interchange cum Road Over Bridge (ROB) at LC-236 [Kutch salt junction] on N.H-141 to Nehru gate of Kandla port, Gandhidham, Kutch proposed by M/s Deendayal Port Authority (Erstwhile: Deendayal Port Trust) – Compliance of stipulated conditions mentioned in the CRZ recommendations reg.

Ref.: 1) GCZMA CRZ recommendation vides Letter No- ENV-10-2017-74-E dated 21.01.2018

- 2) DPT letter no. EG/WK/5202 (D)/Part/34 dated 02/07/2021
- 3) DPT letter no. EG/WK/5202 (D)/Part/147 dated 08/02/2022
- 4) DPT letter no. EG/WK/5202 (D)/Part/124 dated 29/06/2022
- 5) DPT letter no. EG/WK/5202 (D)/Part/225 dated 01/02/2023

Sir,

It is requested to kindly refer the above cited reference for the said subject.

In this connection, it is to state that, the Gujarat Coastal Zone Management Authority vide above referred letter dated 21.01.2018 had recommended the subject project of Deendayal Port Authority. Subsequently, the SEIAA, Gujarat had accorded the Environmental & CRZ Clearance vide EC Letter No. SEIAA/GUJ/EC&CRZ/8(b)/728/2020 dated 19.06.2020 for the subject project.

DPT had signed an MOU with M/s IPRCL vide Certificate no. IN-GJ95223355926842S dated 9/06/2020 wherein IPRCL was appointed as the Project Implementation Agency for the project.

Accordingly, as directed under Specific Condition No. 17 mentioned in the CRZ Clearance letter dated 21.01.2018 i.e. A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the DPT on a regular basis to this Department and MoEF&CC, GoI, please find enclosed herewith compliance report of the stipulated conditions (period upto **May 2024**) along with necessary annexure submitted by M/s IPRCL, for kind information & record please (**Annexure I**).

...Cont.....

Further as per MoEF&CC, Notification S.O.5845 (E) dated 26.11.2018, stated that "In the said notification, in paragraph 10, in sub-paragraph (ii), for the words "soft copy" shall be substituted". Accordingly, we are submitting herewith soft copy of the same via e-mail ID gczma.crz@gmail.com & direnv@gujarat.gov.in

This has the approval of the Chief Engineer, Deendayal Port Authority.

Thanking You.

Yours faithfully,

Dy. Chief Engineer & EMC(I/c)

Deendayal Port Authority

#### Copy to:

Shri Amardeep Raju
Scientist E, Ministry of Environment Forests & Climate change,
& Member Secretary (EAC-Infra I),
Indira Paryavaran Bhavan,
3rd Floor, Vayu Wing, Jor Bagh Road, Aliganj,
New Delhi - 110 003
Email Id: ad\_raju@nic

Subject: Point-wise Compliance Status Report for CRZ clearance for proposed project for Constrcution of Interchange cum Road Over bridge at N.H 141 to Nehru Gate of Deendayal Port Trust, Kandla, Dist: Kutch by Deendayal Port Trust-reg.

Ref No: - GCZMA CRZ recommendation vide Letter No- ENV-10-2017-74-

S.		
No.	CRZ Conditions	Compliance Status
1	SPECIFIC CONDITIONS	
1.	The DPT shall strictly adhere to the provisions of the CRZ Notification, 2011	adhered to all the provisions of CP7
2.	Necessary permissions from different departments/ agencies under different laws/ acts shall be obtained before commencing any activity including the construction activities	Notification -2011.  The Consent to Establish (CTE) from the GPCB had already been obtained vide CTE No. 89489 granted by the GPCB vide letter no. PC/CCA-KUTCH 1449/GPCB ID 56869 dated 03/10/2017 attached as Copy Annexure II(in 4 pages) of the EC Compliance. Copy of approved GAD enclosed as Annexure III(in 2 pages) of the EC Compliance.
3.	The DPT shall ensure that adequate culvert/passages are provided during construction of road and there shall be no obstruction of free flow of water.	The Construction of the project has been completed on 29/05/2023. IPRCL Total 15 culverts has been constructed for the continuous free flow of water. (Copy of GAD of Culverts attached as Annexure VI (in 16 pages) of the EC Compliance).
4.	The DPT shall ensure that there shall not be any blockage of creek and free flow of water is maintained	The Construction of the project has been completed on 29/05/2023. IPRCL Total 15 culverts has been constructed for the continuous free flow of water.
5.	The DPT shall construct settling ponds and the installation of the oil receptor to prevent the entry of the surface run-off from fuel and other contaminants into the wells and other surface bodies along the corridor.	The Construction of the project has been completed on 29/05/2023.  Also, there were no wells in the project area and no spillage of fuel occurred in past at project area. The same will also be ensured in Maintenance period of project i.e. 4 years.
6.	No vehicle or equipment shall be parked or re fuelled near the water-body, so as to avoid contamination from fuel and lubricants	The Construction of the project has been completed on 29/05/2023.

S. No.	CRZ Conditions Compliance Status			
		Compliance Status		
		Also, the Vehicles and equipment are parked and refuelled at the site office area during maintenance period, and there is no sweet water body near the site office.		
7.	Hot mix plants/concrete mix plants shall be located and operated in such a way that there shall be no Air pollution.	of the project has been		
		Hot Mix Plant and Concrete mix plant is located 7 km away from project site and GPCB approval of same is enclosed as Annexure VII (in 6 pages).		
8.	The DPT shall ensure that the quarry works, from which they will purchase raw materials, shall confirm to the norms and having necessary clearances from the respective authorities.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.  IPRCL has ensured that the quarry works, from which raw materials are purchased, conforms to the norms and had necessary		
		clearances from the respective authorities.		
	The DPT shall make MOU with raw material supplier quarry/hot mix plants etc.in such a way that they will comply with all the terms and conditions mentioned in the CCA/NOC issued by the Gujarat Pollution Control Board.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.  The raw materials are being purchased by the contractors directly hence M.O.U by DPT with supplier is not required. However, conditions mentioned in NOC by GPCB was compiled too.		
	The DPT shall explore the possibility for using the fly ash @ 5%-10% to comply with the Fly Ash Notification.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.		
		Fly ash @ 5% to 10% was used in the Concrete as well as in Reinforced Earth Filling.		
11.	The DPT shall make sure that all the wastes arising from the project shall be disposed of at identified sites in environmentally sound manner.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.		
	environmentally sound marrier.	The solid waste generated from construction		

Addl. GE ERAL MANAGER. (P)
IPRCL/GANDHIDHAM

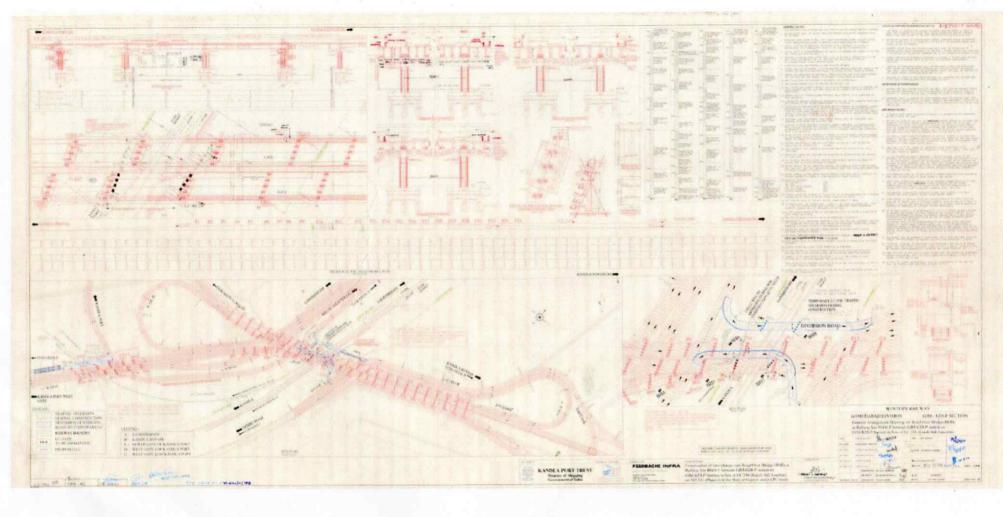
S.	CRZ Conditions	
No.	CR2 Conditions	Compliance Status
		site & labour camp was disposed off as per solid waste management Rules-2016.
12.	There shall no discharge of any kind of wastewater/sewage/effluent into the creek/sea or in the CRZ areas.	The Construction of the project has been completed on 28/05/2023. The maintenance period is 4 years  During construction phase there was no discharge of any kind of wastewater/sowage/effty.
		creek/sea or in the CRZ areas.
13.	The DPT shall implement all the suggestions/recommendations given in the EIA report by their consultant M/s. Mantech Consultant Pvt. Ltd.	All the suggestions/ recommendations given in the EIA report by consultant are implemented by IPRCL (Project Implementation Agency).
14.	No ground water shall be taped to meet with the water requirements during the construction and/or operation phases.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.
		Fresh water requirement during the construction phase was fulfilled with Private Tanker supplying agency. It was ensured that no ground water was tapped in the construction phase.
15.	The DPT shall not discharge any kind of waste including the construction debris into the river/estuary or into the CRZ areas.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.
		During construction phase there was no discharge of any kind of wastewater/sewage/ effluent into the creek/sea or in the CRZ areas.
16.	The DPT shall ensure that the construction camps are kept outside the CRZ areas and the construction labour are provided with adequate amnesties like drinking water, fuel, sanitation etc. to ensure that the existing environmental condition is not deteriorated by them.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.  It was provided adequate amenities like drinking water, fuel, sanitation, etc. to the construction labourers to ensure that the existing environmental condition is not deteriorated by them.

Addl. GENERAL MANAGER. (P)
IPRCL/GANDHIDHAM

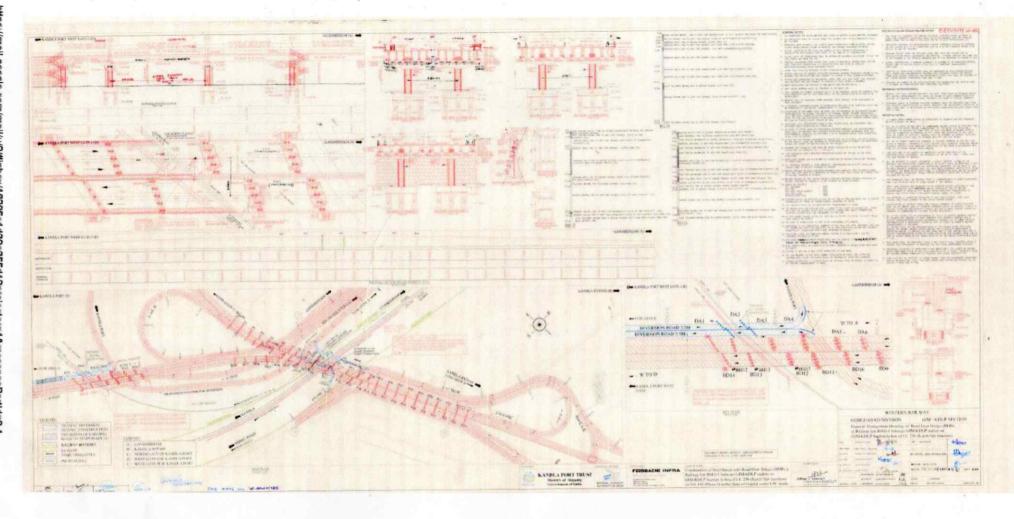
S. No.	CRZ Conditions	Compliance Status
17.	The DPT shall regularly submit the half-yearly compliance report on the conditions stipulated by this department/SEIAA	IPRCL is being compiled the compliance report periodically.
18.	Any other conditions that may be stipulated by this department/SEIAA from time to time for environmental protection/management purpose.	Noted please.

Addl. GE TRAL MANAGER. (P)
IPRCL/GANDHIDHAM

# Annexure III (In 2 Pages)



4/5/2018



# Annexure IV (In 14 Pages)



#### इंडियन पोर्ट रेज कारपोरेशन जिमिटेड (भारत सरकार का उपक्रम) Indian Port Rail Corporation Ltd. (A Government of India Enterprise) CIN No: U60300DL2015GOI282703

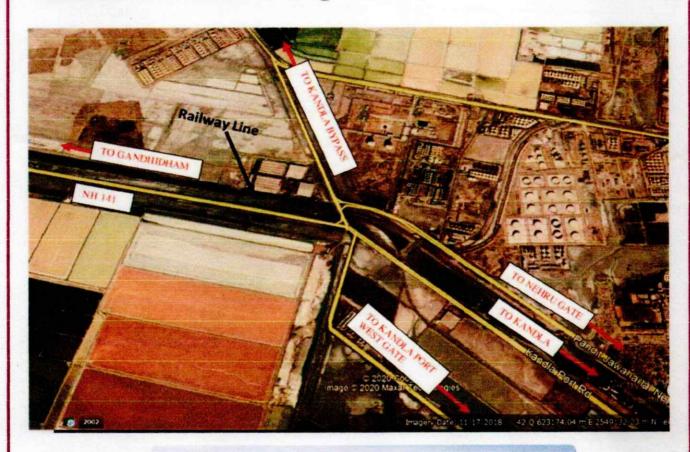


Construction of Interchange cum Road Over Bridge (ROB) at LC 236 (Kutch Salt - Junction) on NH 141 (Phase- I) in the State of Gujarat under EPC mode.

**EPC Contractor:** 

Niraj - Patel JV

BBZ S 60, "NEELKANTH", ZANDA CHOWK, GANDHIDHAM, KUTCH, GUJARAT - 370201.



Design of ROB Super Structure @ Ch.0+639

Sep 2020

# **Design Consultants:**



# **Nivedita Consultants**

B – 98, Sector – A, Sanik Vihar Colony, Nandanagar, Kunraghat, Gorakhpur – 273008 (UP) Phone: +91-0124-4054562; email: <a href="mailto:nivcons@gmail.com">nivcons@gmail.com</a>

#### **AUTHORITY:**



इंडियन पोर्ट रेज कारपोरेशन जिमिटेड (आरत मरकार का उपजम ) Indian Port Rail Corporation Ltd. (A Government of India Enterprise) CIN No. U60380DL2015GO1282703



PROJECT: Construction of Interchange cum ROB

Construction of Interchange cum Road Over Bridge (ROB) at LC 236 (Kutch salt junctio) on NH 141 (Phase-1) in the state of Gujrath under EPC mode.

#### **EPC CONTRACTOR:**

M/S NIRAJ-PATEL JV

BBZ S 60, "Neelkanth" Zanda chowl, Gandhidhsm, Kutch, Gujrat- 370201

### THIRD PARTY PROOF CONSULTANT:



Indian Institute of Technology (BHU) Varanasi

IIT-BHU, Banaras Hindu University Campus, Uttar Pradesh 221005

# PROOF CONSULTANT:



M/s Nitya Nayra Civil Solution PVT. LTD

1/70, TF-1, MIG SEC-1, Vasundhra, Ghaziabad - 201 012, Uttar Pradesh, India

TITLE OF DOCUMENT:	Design of ROB Super structure	at CH:0+639.1	

Doc. Number:	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	Prepared By:	CN
Rev. No:	R0	Checked By:	NK
Date:	29/8/2020	Approved By:	NK

Date: Rev No.		Revision	Ву
29/8/2020	R0	For Review and Approval	CN

# **DESIGN CONSULTANT:**



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Nivedita Consulting

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Project:	Construction of Interchange cum ROB	
Doc. Title	Design of ROB Super structure at CH:0+639.1	Nisedita Consultants
	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	
		Rev. R0

Design of Super Structure	
Table of Contents	

SI. No.	Title	Page No.		
1	Design of PSC I Girder and Diaphragm	1 389 487	-	383
2	Design of RCC I Girder and Diaphragm	389		486
3	Design of RCC Deck Slab	gm 389		510

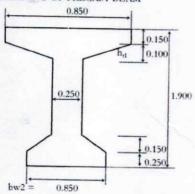
Design of PSC I - Girder

Annexure My

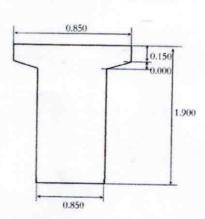
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Doc. Title	Design of ROB Super structure at CH:0+639.1	Y Ni	Nivedita Consultants	ultants
Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639,1-DN-01			
33370		Rev.	*	RO

SALIENT FEATURES OF THE BRIDGE DECK:			
Skew angle	=	20 deg.	
Span c/c of Exp. J.	=	30.0 m	
Exp. Gap	=	42.6 mm	
c/L of brg. to c/L of exp. J	=	0.69 m	
Span c/c of brg.	=	28.617 m	(SK)
Overall span	=	29.957 m	(SK)
Overhang beyond c/L brg.	=	0.670 m	
Thickness of End Cross-Girder	=	0.851 m	(SK) (SK)
Thickness of Intermidate Cross-Girder	=	0.319 m	
Girder overhang beyond c/l brg,	=	0.000 m	(SK)
Overall Length of Girder	=	28.10 m	(01/2)
c/L of temporary brg. from face of girder	=	0.65 m	(SK)
c/L of permanent brg. to face of end cross girder	=	0.426 m	
Overall carriageway width	_	13.4 m	
Wearing Coat Thickness	=	65 mm	
Depth of Precast Beam		1.000	
Thickness of Cast-in-situ deck	=	1.900 m	
Overall depth Beam +slab	=	0.230 m	
c/c of girder (transvers direction)	=	2.130 m	
Nos. of Girder	=	3.5 m	
Deck cantilever in transverse direction	=	4 Nos.	
	-	1.45 m	
Density of Concrete	= 100	$2.5 \text{ t/m}^3$	
Size of bearing	=	0.600 x	0.600 m
		(Long)	(Trans)

# PROPORTINING OF PRECAST BEAM



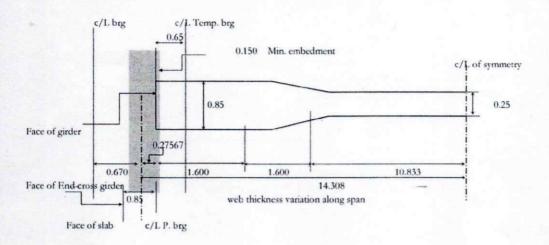
Section at Mid Span



Section at Support

Annexy XII (6).

Project:	Construction of Interchange cum ROB	Ð.,,	Ð.,	
Doc. Title	Design of ROB Super structure at CH:0+639_1	£ Air	redita Cons	ultants
Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	Rev.		RO



W/oh Thickening

Section At	Face	Jacking	c/L brg.	c/L brg.	Te	deff	L/8	TS	2L/8	3L/8	4L/8
Dist. From c/L Permanent brg. (m)	0.00	0.15	0.00	0.00	1.60	1.81	3.58	3.20	7.15	10.73	14.31
Dist. From face of girder (m)	0.00	0.15	0.00	0.00	1.60	1.81	3.51	3.20	7.02	10.54	14.05
Dist. From jacking point (m)	-0.15	0.00	0.28	0.28	1.45	1.66	3.36	3.05	6.87	10.39	13.90
Dist. From c/L temp. brg. (m)	0.00	0.15	-0.65	-0.65	0.95	1.16	2.86	2.55	6.37	9.89	13.40
bw m	0.85	0.85	0.85	0.85	0.85	0.78266	0.250	0.3381832	0.25	0.25	0.25

Overall depth of composite girder 2.130 m 1.811 \*/Assumed 0.85 times of overall depth

MATERIAL USED:

Grade of Reinforcement Fe 500 fyk 500 Mpa Modulus of Elasticity Es 200000 Mpa Cast insitu deck M 40 =

fck 40 Mpa fcm 50 MPa Ecm 33000 MPa

Precast Beam M 45 fck 45 fcm 55 MPa Ecm 34000 MPa

fctk,0.05 Characteristic axial tensile strength of concrete 2.3 MPa

ANALYSES ASSUMPTION

Environmental parameters Relative humidity 57 % SEVERE Exposure condition

> ChronosCoul Prof. K. K. Pathak Department of Civil Engineering Indian Institute of Technology Banaras Hindu University Varanasi-221005

Proof Checked

GANDHIDHAM

Project:	Construction of Interchange cum ROB	Nivedita Co	nsultants
Doc. Title	Design of ROB Super structure at CH:0+639.1	Z Antuna Consulo	
Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	Rev	RO

# TEMPERATURE

Coefficent of thermal expansion 1.2E-05 /°C

# FOR PRECAST BEAM

Modulus of Elasticity

34000 Mpa Ecm For short Term loading Ecm/ (1+\$) For long Term loading Ecm'

Creep coefficent

# Creep

1.51 m2 Ac (Composite Outer Girder at mid span considered) Cross-sectional Area 8.56 m Perimeter in contact with atmosphere u

352 mm 2Ac/u Notational size ho

1.53 (Refer Appendix B)  $\phi(\infty)$ 

1.68 \*(Increased by 10% on the conservative side)

12682.7 N/mm<sup>2</sup> Ecm'

# SERVICEABILITY LIMIT STATE:

Rare Combination

Max permissible Stress in Concrete 0.48\*fck(t)

Max permissible tensile Stress in Concrete

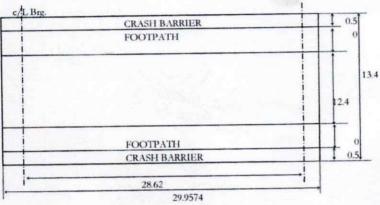
=fctm (mean tensile strength) -3.3 Mpa fctm

Quasi permanent Combination

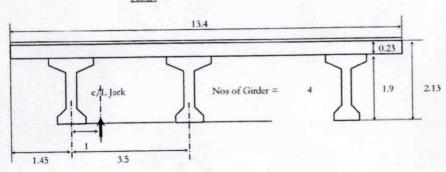
Max permissible Stress in Concrete 0.36\*fck(t)

400 Mpa 0.8\*fyk = Max permissible Stress in Steel

0.2 mm Permissible crack width



PLAN



Super-structure Cross-section

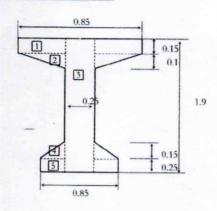
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Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	. Rev.	- R0				

#### PROPERTY CALCULATION OF PRECAST BEAM:-

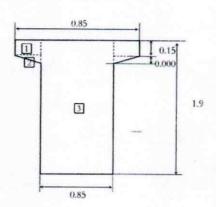
Density of concrete

2.5 t/m3

# ALINNER/ OUTER GIRDER:



Section at Mid Span



Section at Support

Section Property At Mid Span

Element	Factor	В	D	N	A	cg,	Izz	cg <sub>z</sub> .	Iyy
No.	Factor	m	m	Nos.	m <sup>2</sup>	m	m <sup>4</sup>	m	m <sup>4</sup>
1	1	0.300	0.15	2	0.0900	0.075	0.080	0.275	0.00748
2	0.5	0.300	0.1	2	0.0300	0.18333	0.021	0.225	0.00167
3	1	0.25	1.9	1	0.475	0.95	0.145	0	0.00247
4	0.5	0.3	0.15	2	0.045	1.60	0.015	0.275	0.00363
5	1	0.3	0.25	2	0.150	1.78	0.087	0.225	0.00872
Total					0.7900	1.015	0.348		0.0240

UDL

0.790

2.5

1.98 t/m

GROADS	
\$ 1624 in 10	1
(5) Commy (5)	
011.	
FGURU	

Section Property At Support Section

Element No.	Factor	В	D	Nos.	A	cg <sub>y</sub> .	Izz	cg,	I <sub>yy</sub>
	Tactor	m	m	1408.	m <sup>2</sup>	m	m <sup>4</sup>	m	m <sup>4</sup>
1	1	0.000	0.15	2	0.000	0.075	0.000	0.425	0
2	0.5	0.000	0.00	2	0.0000	0.15	0.000	0.425	0
3	1	0.85	1.9	1	1.615	0.95	0.486	0	0.09724
Total					1.615	0.950	0.486		0.0972

UDL

1.615

2.5

4.04 t/m

Section At		unit	Face	Jacking	c/L brg.	c/L brg.	deff	Te	L/8	TS	2L/8	3L/8	4L/8
Dist. From c/1	l. brg.	m	0	0.15	0	0	1.8105	1.600	3.577	3.200	7.154	10.731	14.308
web width	bw	m	0.85	0.85	0.85	0.85	0.78266	0.85	0.25	0.33818	0.25	0.25	
Area	A	m <sup>2</sup>	1.615	1.615	1.615	1.615	1.522	1.615	0.790	0.911	0.790	0.790	0.790
Izz		m <sup>4</sup>	0.486	0.486	0.486	0.486	0.470	0.486	0.348	0.368	0.348	0.348	0.348
Iyy		m <sup>4</sup>	0.097	0.097	0.097	0.097	0.089	0.097	0.024	0.035	0.024	0.024	0.024
yb		m	0.950	0.950	0.950	0.950	0.943	0.950	0.885	0.895	0.885	0.885	
yt		m	0.950	0.950	0.950	0.950	0.957	0.950	1.015	1.005	1.015	1.015	1.015

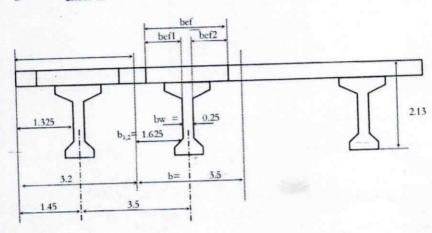
MANAGER (P) / IPRCL

Proof Checked

Prof. K. K. Pathak Department of Civil Engineering Indian Institute of Technology Banaras Hindu University Varanasi-221005

	Design of ROB Super structure at CH:0+639.1	Nivedita Consultants			
Doc. Title	Design of ROB Super structure at CH:0+639.1	Rev RO			
Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	. Rev.			

# EFFECTIVE WIDTH CALCULATION:



# beff. CALCULATION FOR INNER GIRDER:

$$b_{1,2} = 1.625$$

beff<sub>1,2</sub> = Min 
$$\begin{cases} 0.2 \text{ bi } + 0.1 \text{ bi} = 3.2 \text{ m} \\ 0.2 \text{ bi} = 5.72331 \text{ m} \end{cases}$$

$$beff_{1,2} = 3.18666 \text{ m}$$

beff = Min 
$$\begin{cases} \sum beff, i + bw = 6.62331 \text{ m} \\ b = 3.5 \text{ m} \end{cases}$$

# beff. CALCULATION FOR OUTER GIRDER:

$$b_1 = 1.325 \text{ m}$$

$$=$$
 1.63 m

beff<sub>1</sub> = Min 
$$\begin{cases} 0.2 \text{ bi } + 0.1 \text{ } b = 3.1 \text{ m} \\ 0.2 \text{ } b = 5.72331 \text{ m} \end{cases}$$

$$beff_1 = 3.12666 \text{ m}$$

beff<sub>2</sub> = Min 
$$\begin{cases} 0.2 \text{ bi } + 0.1 \text{ } b = 3.2 \text{ m} \\ 0.2 \text{ } b = 5.7 \text{ m} \end{cases}$$

$$beff_2 = 3.18666 \text{ m}$$

beff = Min 
$$\begin{cases} \sum beff, i + bw = -6.56331 \text{ m} \\ b = 3.2 \text{ m} \end{cases}$$

Frequet	Construction of Interchange cum ROB	P <sub>V</sub>	ivedita Cons	cultants
Doc Title	Design of ROB Super structure at CH:0+639.1		Toma con	1
	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	Rev.		R0

D) CHECK FOR SHEAR:

(IRC 112 / clause 10.3.2 (2))

Load comb.	V <sub>ED</sub>	β	$\beta V_{ED}$	d	bw	k= Min [1+ \\200/d,2]	Asl	p1 = Min [ Asl/bw d , 0.02 ]	$v_{min} = 0.031  k^{3/2}$ fck <sup>1/2</sup>	$\sigma_{cp}$	$V_{Rdc} = Max [ (0.12 k) (80 p1 fck)^{0.33} + (0.15 \sigma_{cp}) bw d, (V_{min} + 0.15 \sigma_{cp}) bw$	Check
	Т		T	mm	mm		mm <sup>2</sup>			Мра	Tonne <sub>4</sub>	
Cantilever Port Cantilever (Girde Cantilever (Girde	er Top Flange 10.06		1 10.0				1330.557 1330.557	0.0074	0.555		12.2251 18.4751	No Shear reinf. Required No Shear reinf. Required
Intermediate su Girder Top Flag	e Face		1 11.1	7 179	1000	2.000	1330.557	0.0074	0.555	0	12.2251	No Shear reinf. Required
Girder web Face Intermediate s Intermediate Mi	17.41 pan		1 17.4				1330.557 1330.557	0.0031			18.4751 12.2251	No Shear reinf. Required









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इंडियन पोर्ट रेज कारपॉरेशन जिमिटेड (भारत सरकार का उपक्रम ) Indian Port Rail Corporation Ltd. (A Government of India Enterprise) CIN No: U60300DL2015GOI282703

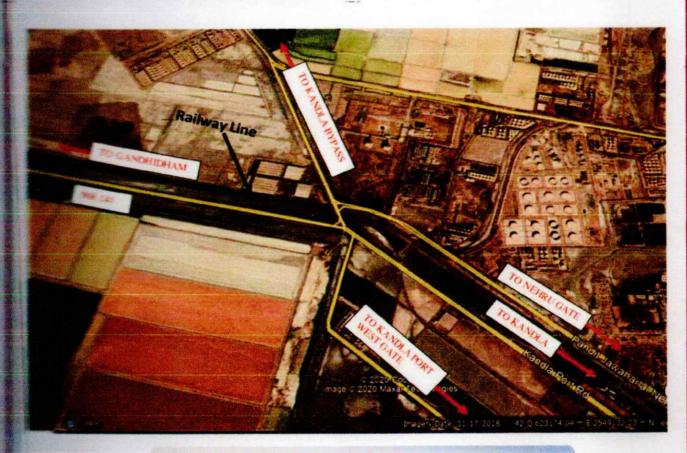


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EPC Contractor:

Mirai - Patel JV

S 50. "NEELKANTH", ZANDA CHOWK, SANDH DHAM, KUTCH, GUJARAT - 370201.



Design of ROB Test Pile @ Ch.0+639

Sep 2020





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# **AUTHORITY:**



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Doc. Number:	KUT-TEST PILE-ROB-RLY-CH"0+639.1-DN-01	Prepared By:	CN
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Date:	8/9/2020	Approved By:	NK

Date:	Rev No.	Revision	Ву
10000			
8/9/2020	R0	For Review and Approval	CN

# **DESIGN CONSULTANT:**

email: nivcons@gmail.com



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Doc. no.	KUT-TEST PILE-ROB-RLY-CH"0+639.1-DN-01	Rev	R0

# **DESIGN OF TEST PILE:**

# Vertical Test Load

Vertical Load Capacity for test pile

400 T

Test Load for test Pile

=	400	X
=	1000 T	on

2.5

# Calculation of latteral load

\*/Non-seismic & submerged condition is considered

\*/Calculating depth of fixity

Dia of pile Grade of concrete

fck

1200 mm 35 Mpa

E

320000 kg/cm<sup>2</sup> 1E+07 cm4

Stiffness factor for P.C. Cohesive soil

4√(EI/K B) 460.00 cm Niraj Parel

Total Length of Pile

24 m 0.0 m

Free Length of Pile , L1 Embedded length of pile, Le

24.0 m

L<sub>1</sub>/T

0.000

Corresponding value of L<sub>f</sub>/T Depth of fixity, L

1.95 8.97 m

Total free length

8.97 m

Design Load

10 Tonne

\*/ For fixed head pile

Deflection at pile head top

 $y = Q * (L1 + Lf)^3 / 12 EI =$ 

1.85 mm

\*/ Calculation for equivalent force for free head pile

 $L_1 + L_f$ 

Q

Lf/T for free head pile

1.6

L for free head pile 7.36 m

L<sub>1</sub> + L<sub>f</sub> for free head pile

7.36 m

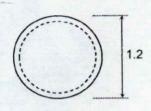
Proof Checked

GANDHIDHAM

Prof. K. K. Pathak Department of Civil Engineering Indian Institute of Technology Banaras Hindu University Varanasi-221005

Project: Construction of Interchange cum ROB		D	0,	
Doc. Title	Design of ROB TEST PILE at CH:0+639.1	* Assedsia	l oasaltants	
Doc. no.	KUT-TEST PILE-ROB-RLY-CH"0+639.1-DN-01	Rev	R0	

Equaivalent load for free head pi	le Q <sub>free</sub> = y*3	BEI /(L1+Lf)3	=	4.53 Tonne	
		Say	=	5.00 Tonne	
Factored design load			=	5 x	2.5
			=	12.5 Tonne	
Free Head moment	М		=	Q <sub>free</sub> *( L <sub>1</sub> +L <sub>1</sub> )	
			=	92.0 Tm	1 0
Moment reduction factor	m		=	0.400 Tm	Unimedor IV
Modified design Bending Momen	nt M	la	=	36.8 Tm	Design Palel 3.
ULS Modified design Bending M	oment M	la	=	55.2 Tm	
R/F Calculation of test Pile					



# Material Properties:

fck	=	35	N/mm <sup>2</sup>
fyk	=	550	N/mm <sup>2</sup>
Es	=	200000	N/mm <sup>2</sup>

Pile Dia D	=	1200	mm 🥳
Clear cover			mm
Dia of bar	=	16	mm
Nos. of Bars	=	24	Nos 7
Effective cover	=	83	mm
Reinf Circular dia	= 11111	1034	mm
Spacing	=	135.4	mm
Area of steel provided	=	4825	mm <sup>2</sup>
% steel provided	=	0.43	%

xu/D	Pu	Mu	
XU/D	T	Tm	
1E-27	-229.8	0.7	
0.2	65.2	136.0	
0.4	457.8	239.6	
0.6	892.8	256.4	
0.8	1305.0	198.3	
1	1624.3	106.1	
1.2	1775.7	56.4	
1.4	1854.9	29.0	
1.6	1899.8	11.8	
1.8	1925.2	1.1	
2	1938.4	-5.0	

2500 INTERACTION DIAGRAM (Pu: Mu) 2000 D1500 1000 500 200 250

Mu (Tm)

Minimum % steel



OK

0.4 %

MANAGER (P) / IPRCL GANDHIDHAM

0 T Pu Mu 55.2 Tm

Mu capacity

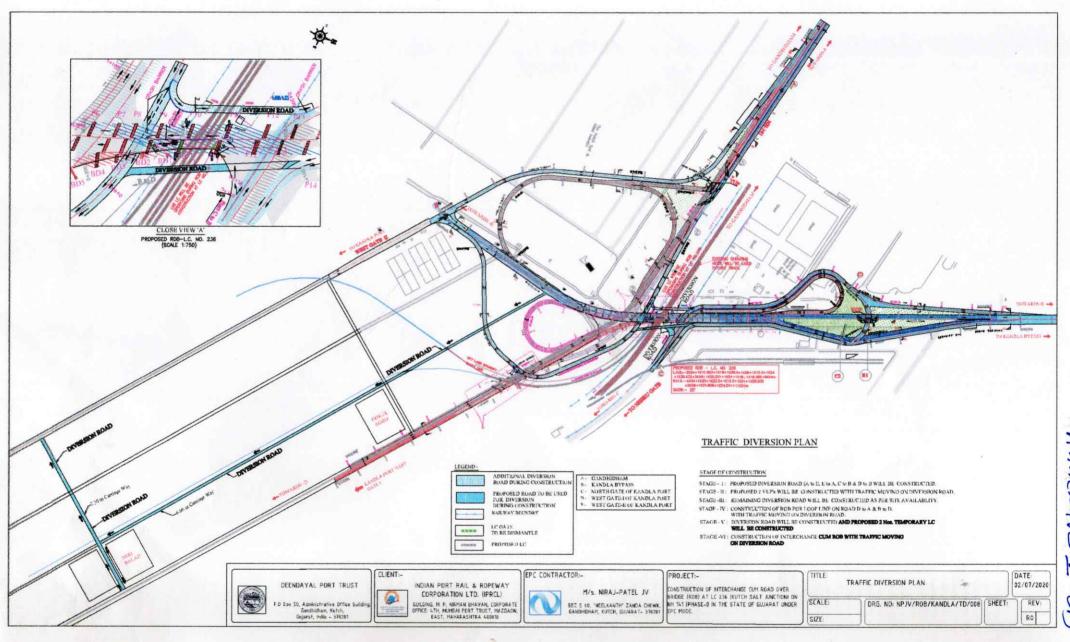
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Prof. K. K. Path Department of Civ Indian Institute o Banaras Hindu U Varanasi-221005

# Annexure V (In 3 Pages)



URGENT/ BY EMAIL

भारत सरकार सड़क परिवहन एवं राजमार्ग मन्त्रालय

कार्यालय, क्षेत्रिय अधिकारी, न्यू सविधालय, ब्लॉक नं0-14 वर्ष्यं तल, गाँबीनगर-382010 गुजरात फोन / फैक्स-079-2322070**5** 



**GOVERNMENT OF INDIA** Ministry of Road Transport & His

> Office of the Regional Officer New Sachivalaya, Block No.14 4th floor, Gandhinagar 382010 Gujarat. Phone/Fax No. 079-23220705

> > Dated: October 14, 2020

RW/GNR/NH/HA/NOC/03/782

To,

The Under Secretary Roads & Building Department Sachivalaya Gandhinagar, Gujarat

SUB: Construction of Interchange cum Road Over Bridge (ROB) at km 367.924, LC 236 (Kutchh Salt Junction) on NH-141 in the State of Gujarat - Approval of Revised Temporary Traffic Diversion Plan Reg.

Sir.

Please refer to your letter no. RLY-13-2016-2631-M dated 16/09/2020, submitting therewith the revised proposal for Temporary Traffic Diversion for the work cited under subject above, to this office for approval.

- The proposal has been examined and the same is found to be in order. Accordingly, in supersession of this office letter no. RW/GNR/Works/529/GJ/2017/393 dated 08/12/2017, the Revised Temporary Traffic /Diversion Plan for Construction of Interchange cum Road Over Bridge (ROB) at km 367.924, LC 236 (Kutchh Salt Junction) on NH-141 in the State of Gujarat, is hereby granted by the Competent Authority, subject to the following conditions.
  - M/s IPRCL will follow the provisions for the approved revised traffic diversion plan as per IRC SP:55.
  - During construction and operation of the diversion road, traffic safety provisions as per IRC SP:88 shall be strictly followed, under the supervision of concerned Executive Engineer, National Highway Division, Gujarat.
  - There shall be no restriction on NH ROW by M/s IPRCL and future development of the National Highway.
  - There shall be sufficient provision for drainage arrangement made by M/s IRPCL on the diversion road and restored existing National Highway, so that no water stagnation occurs.
  - The diversion road shall be constructed and maintained operational by M/s IRPCL under the direct supervision of concerned Executive Engineer, National Highway Division, Gujarat. Further restoration of existing NH road shall be done under the direct supervision of concerned Executive Engineer, National Highway Division, Gujarat. Failure to adhere stipulation will warrant action against M/s IRPCL by concerned Executive Engineer, National Highway Division, Gujarat under Section 36 of The Control of National Highway (Land and Traffic) Act, 2002.

**URGENT/ BY EMAIL** 

- Any deviation to the instant approval shall be approved by MoRTH prior to 2.6 execution at site.
- All order related to Temporary closure of traffic on Highway for construction of 2.7 instant ROB along with diversion of traffic on diversion road shall be issued by the concerned Executive Engineer, National Highway Division, Gujarat under Section 30 and Section 33 of The Control of National Highway (Land and Traffic) Act, 2002.
- Three copies of 'as laid drawings' of work (hard and soft copies) with geotagged 2.8 photographs and geo-tagged video recordings of work executed (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification.
  - Properly designed direction sign boards as per IRC guidelines should be fixed at appropriate locations for safety of road users.
  - 24x7 deployment of trained manpower for traffic regulation at desired locations to avoid the conflict of traffic and for ensuring smooth flow of traffic as per approved diversion plan, should be ensured by M/s IPRCL.
  - A detailed pamphlet should be prepared in Hindi/ Gujarati language indicating origin and destination along with route as per approved diversion plan. The same should be circulated during the execution of project to all road users for proper traffic management.

Encl: Approved Revised Temporary Traffic Diversion Plan.

Yours Sincerely,

HARSH PRABHAKAR EXECUTIVE ENGINEER FOR HIGHWAY ADMINISTRATION

Copy To:

The Executive Engineer, National Highway Division, Gandhidham., for information and ary action.

The Addl. General Manager (P), Ahmedabad, Indian Port Rail & Ropeway Corpor Ltd., Nirman Bhawan, Mumbai Port Trust Building, Mazgaon, Mumbai., for information ary action.

# Annexure VI (In 16 Pages)



# INDIAN PORT RAIL & ROPEWAY CORPORATION LTD. (IPRCL)



BUILDING, M. P., NIRMAN BHAVAN, CORPORATE OFFICE: 4TH, MUMBAI PORT TRUST, MAZGAON, EAST, MAHARASHTRA 400010

CONSTRUCTION OF INTERCHANGE CUM ROAD OVER BRIDGE (ROB) AT LC 236 (KUTCH SALT JUNCTION) ON NH 141 (PHASE-I) IN THE STATE OF GUJARAT UNDER EPC MODE.

# DRAWINGS PIPE CULVERT

**DESIGN CONSULTANT:-**



M/s. NIVEDITA CONULTANTS
ARCHITECTURAL, CIVIL AND STRUCTURAL
ENGINEERING CONSULTANTS

CLIENT :-



INDIAN PORT RAIL & ROPEWAY
CORPORATION LTD. (IPRCL)
BUILDING, M. P., NIRMAN BHAVAN, CORPORATE
OFFICE 4TH, MUMBAI PORT TRUST,
MAZSAGN FAST MAHABASHTRA 4,00010

EPC CONTRACTOR:-

M/s. NIRAJ-PATEL JV

BBZ S 60, "NEELKANTH" ZANDA CHOWK,
GANDHIDHAM, KUTCH, GUJRAT- 370201

SAFETY CONSULTANT:-



M/S FORGIVING ROADS LLP GURUGRAM

PROOF CONSULTANT:-



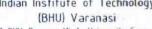
M/S NITYA NAYRA CIVIL SOLUTIONS PVT. LTD. BHOPAL



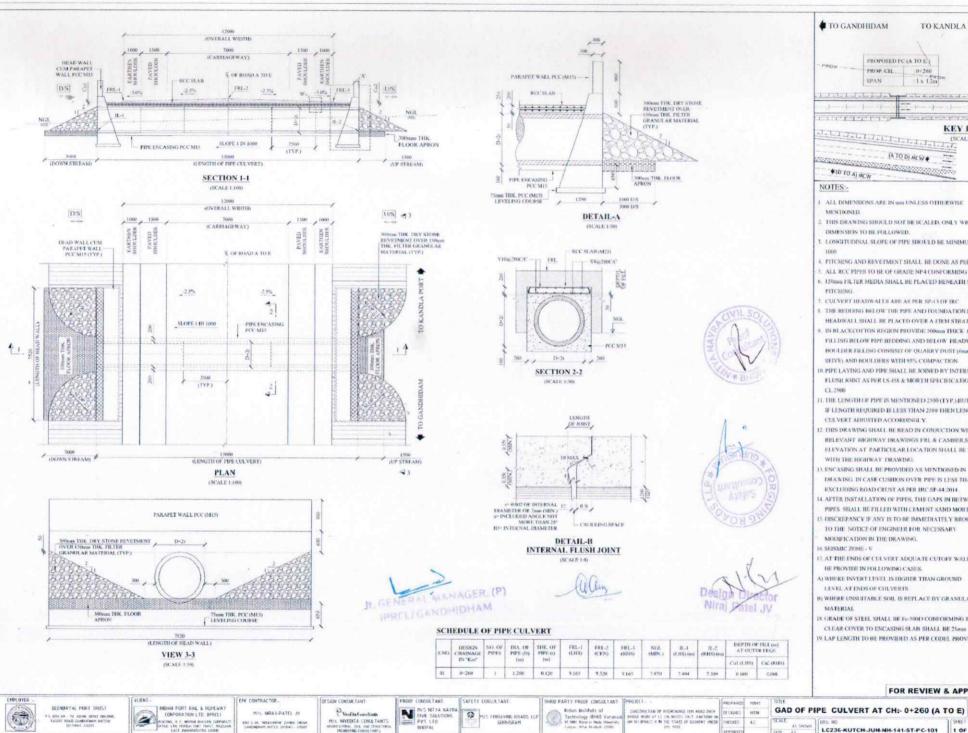
**EMPLOYER:** 

DEENDAYAL PORT TRUST

P.O. BOX NO - 50, ADMIN OFFICE BUILDING TAGGRE ROAD, GANDHIDHAM (KUTCH) THIRD PARTY PROOF CONSULTANT: Indian Institute of Technology



IIT-BHU, Banaras Hindu University Campus, Uttar Pradesh 221005

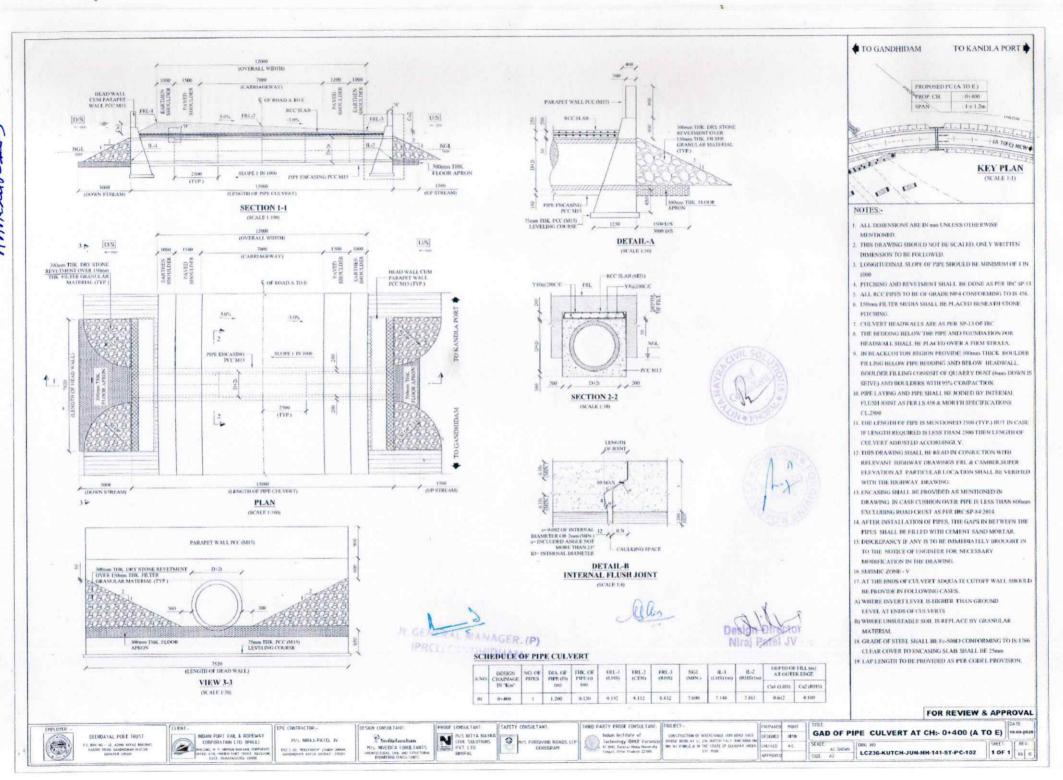


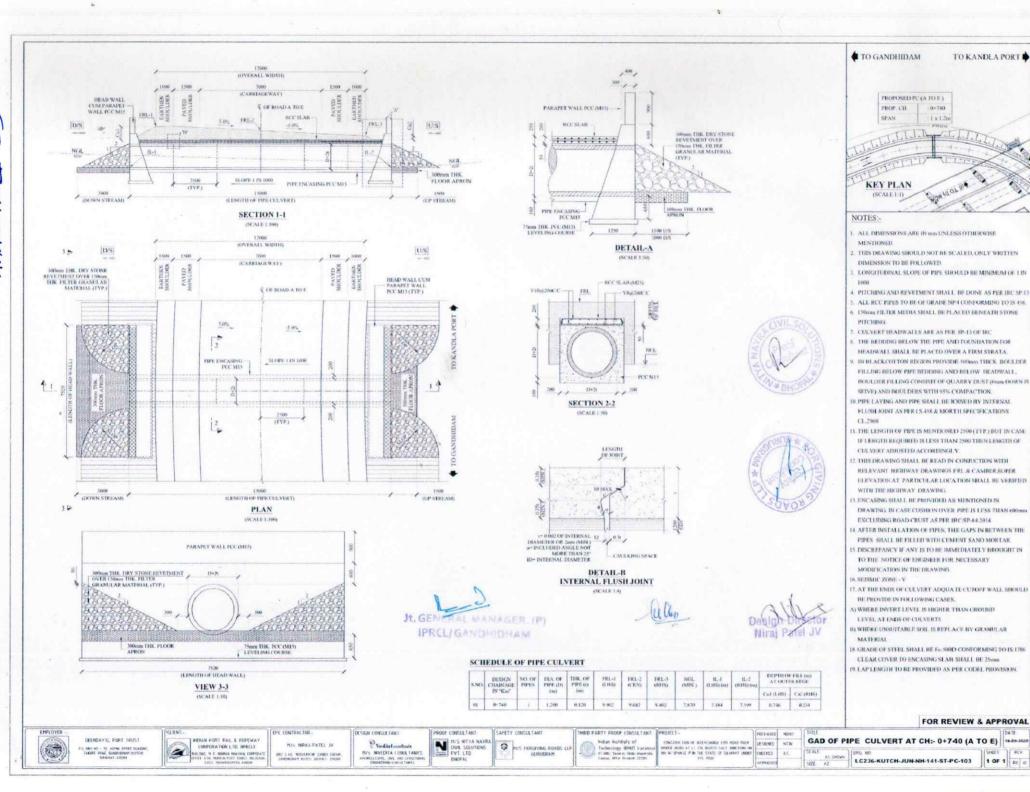
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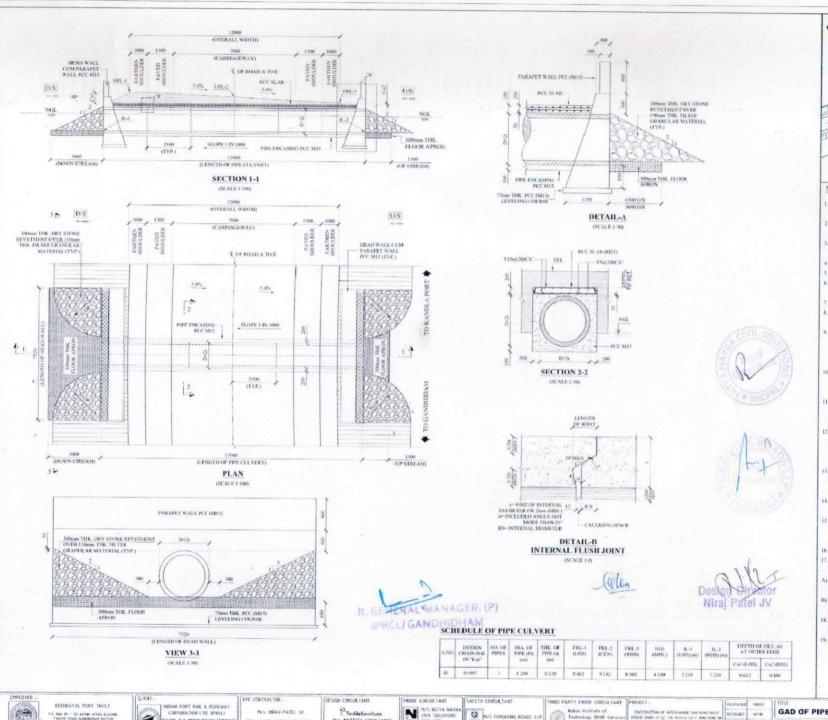
LC236-KUTCH-JUN-NH-141-ST-PC-101

1 OF 1 60 0

FOR REVIEW & APPROVAL







TO GANDHIDAM TO KANDLA PORT PROPOSED PC (A TO E) PROP CIT 0.997 SPAN : 1 x 1.2m KEY PLAN (SCALE 1:1)

#### NOTES:-

- ALL DIMENSIONS ARE IN min UNLESS OTHERWISE MENTIONED
- . THIS DRAWING SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSION TO BE POLLOWED.
- LONGITUDINAL SLOPE OF PIPE SHOULD BE MINIMUM OF 1 IN
- PITCHING AND REVETMENT SHALL BE DONE AS PER IRC SP.13
- ALL RCC PIPES TO BE OF GRADE NP4 CONFORMING TO IS 458.
- 150mm FILTER MEDIA SHALL BE PLACED BENEATH STONE PETCHING:
- CULVERT HEADWALLS ARE AS PER SP-13 OF IRC
- THE BEDDING BELOW THE PIPE AND FOUNDATION FOR HEADWALL SHALL BE PLACED OVER A FIRM STRATA.
- IN BLACKCOTTON REGION PROVIDE 500mm THICK, BOULDER FILLING BELOW PIPE BEDDING AND BELOW BEADWALL. BOULDER FILLING CONSIST OF QUARRY DUST (from DOWN IS SEIVE) AND BOULDERS WITH 95% COMPACTION.
- 6 PIPE LAYING AND PIPE SHALL BE JOINED BY INTERNAL FLUSH JOINT AS FER LS 458 & MORTH SPECIFICATIONS
- IL THE LENGTH OF PIPE IS MENTIONED 2500 (TYP.) BUT IN CASE IF LENGTH REQUIRED IS LESS THAN 2500 THEN LENGTH OF CULVERT ADJUSTED ACCORDINGLY.
- 2. THIS DRAWING SHALL BE READ IN CONJUCTION WITH RELEVANT HIGHWAY DRAWINGS FRL & CAMBER, SUPER ELEVATION AT PARTICULAR LOCATION SHALL BE VERIFIED WITH THE HIGHWAY DRAWING.
- 1. ENCASING SHALL BE PROVIDED AS MENTIONED IN DRAWING, IN CASE CUSHION OVER PIPE IS LESS THAN 600mm EXCLUDING ROAD CRUST AS PER IRC SP-84-2014.
- AFTER INSTALLATION OF PIPES, THE GAPS IN BETWEEN THE PIPES SHALL BE FILLED WITH CEMENT SAND MORTAR.
- 5. DISCREPANCY IF ANY IS TO BE IMMEDIATELY BROUGHT IN TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING.
- 16 SEISMIC ZONE V
- 17. AT THE ENDS OF CULVERT ADQUATE CUTOFF WALL SHOULD HE PROVIDE IN FOLLOWING CASES:
- ) WHERE INVERTILEVEL IS HIGHER THAN GROUND LEVEL AT ENDS OF CULVERTS
- B) WHERE UNSUITABLE SOIL IS REPLACE BY GRANULAR. MATERIAL
- 18. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS: 1786 CLEAR COVER TO ENCASING SLAB SHALL BE 25mm
- 19. LAP LENGTH TO BE PROVIDED AS PER CODEL PROVISION.

FOR REVIEW & APPROVAL



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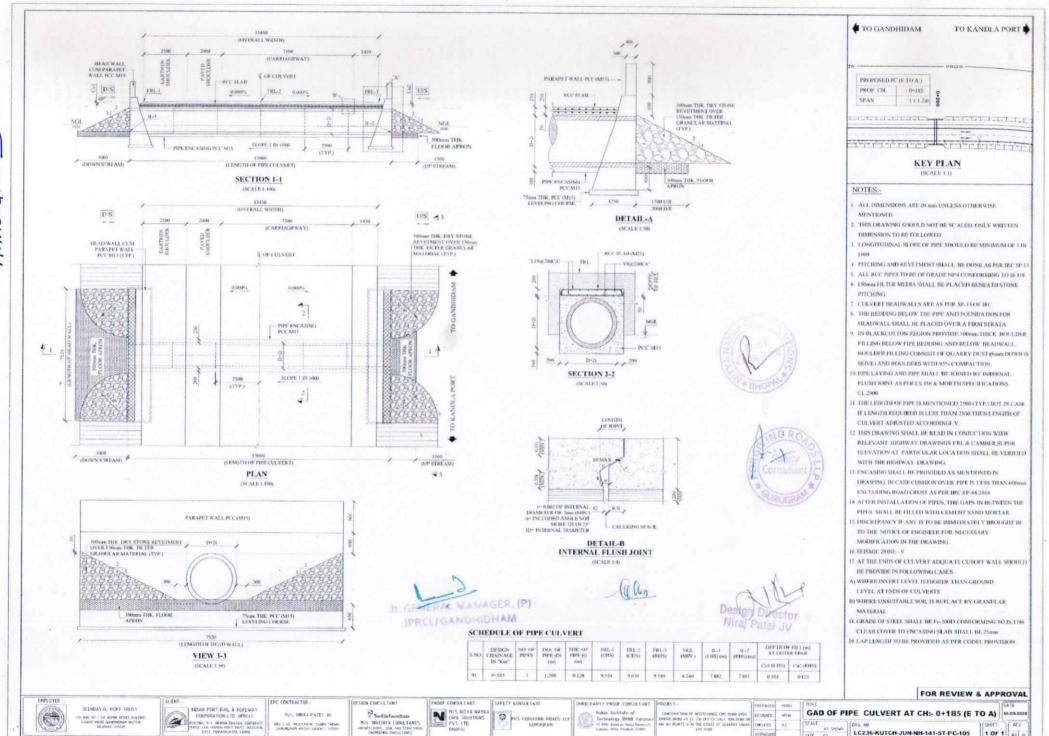


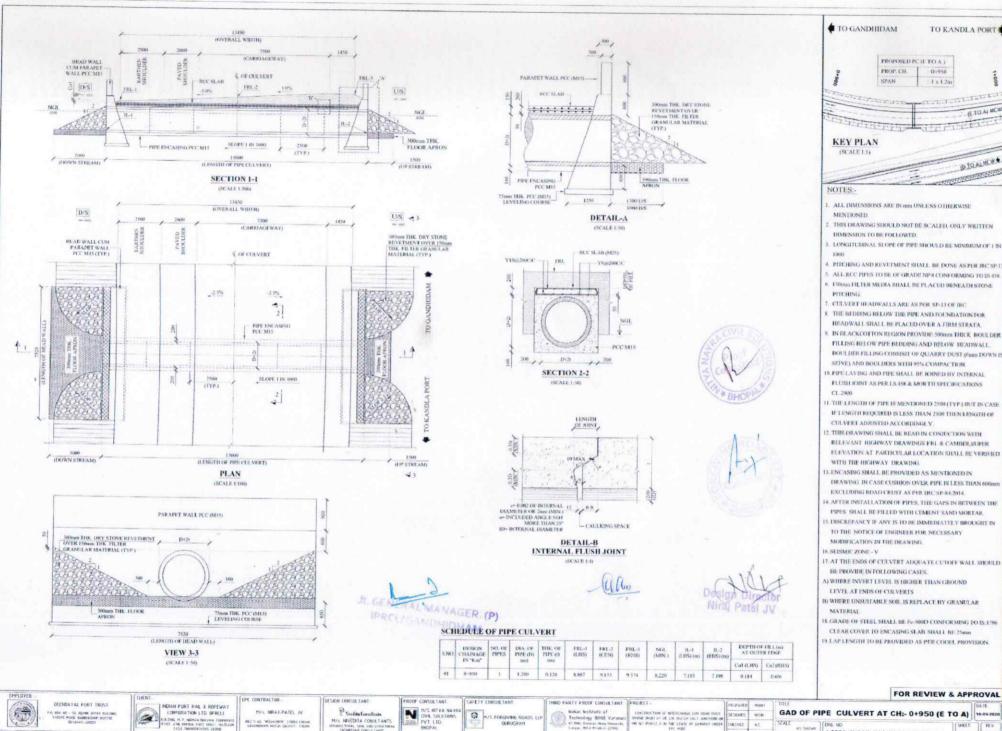
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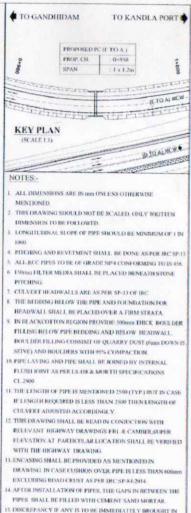
GAD OF PIPE CULVERT AT CH:- 0+997 (A TO E) 18-09-2020 SCALE

LC236-KUTCH-JUN-NH-141-ST-PC-184

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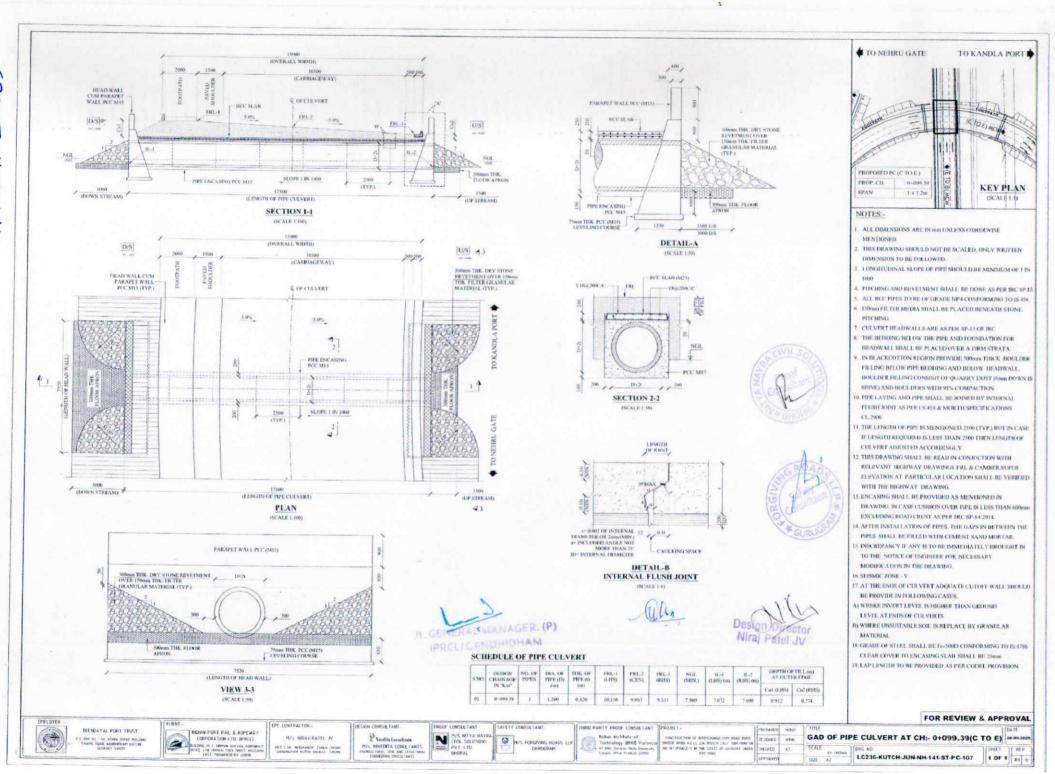


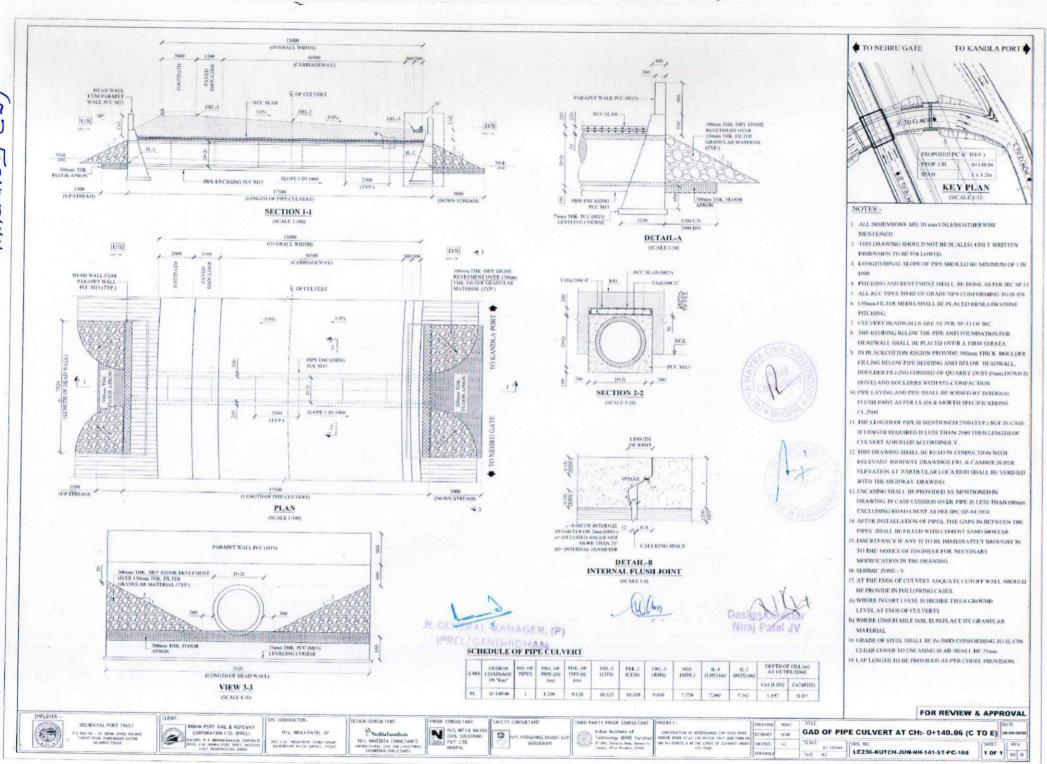


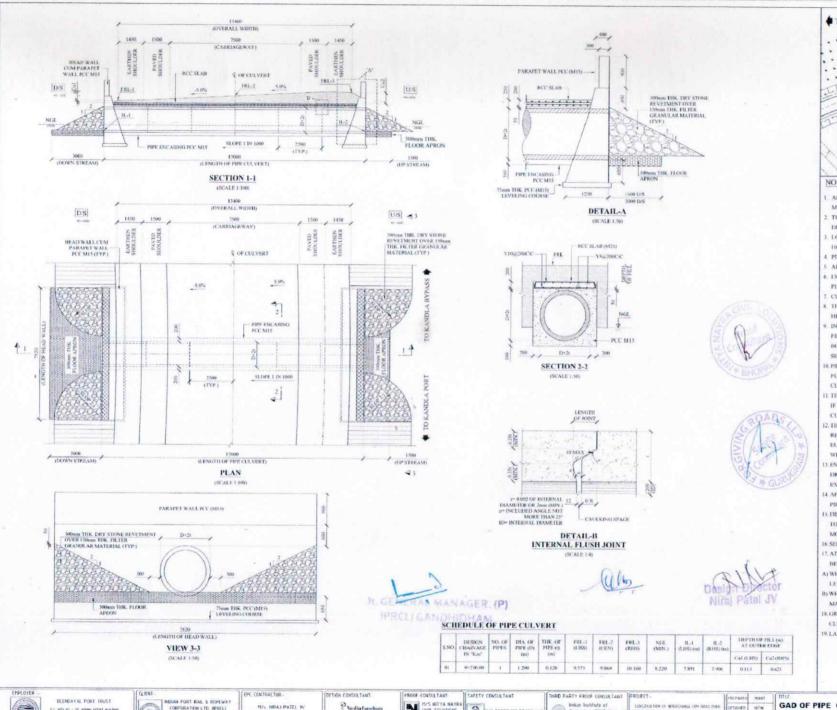
FOR REVIEW & APPROVAL

1 OF 1 00 0

LC236-KUTCH-JUN-NH-141-ST-PC-106







TO KANDLA PORT TO KANDLA BYPASS PROPOSED PC (D TO B) PROP. CH. SPAN -1 x 1.2m KEY PLAN (SCALE L.I)

#### NOTES:

- L. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE
- 2. THIS DRAWING SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSION TO BE FOLLOWED.
- LONGITUDINAL SLOPE OF PIPE SHOULD BE MINIMUM OF 1 IN
- 4. PITCHING AND REVERMENT SHALL BE DONE AS PER IRC SP.13
- ALL RCC PIPES TO BE OF GRADE NP4 CONFORMING TO IS 458.
- 6. 150mm FILTER MEDIA SHALL BE PLACED BENEATH STONE
- CULVERT HEADWALLS ARE AS PER SP-13 OF IRC
- 8. THE REDDING RELOW THE PIPE AND FOUNDATION FOR HEADWALL SHALL HE PLACED OVER A FIRM STRATA
- IN BLACKCOTTON REGION PROVIDE 500mm THICK BOLLDER FILLING BELOW PIPE BEDDING AND BELOW HEADWALL, BOULDER FILLING CONSIST OF QUARRY DUST (6mm DOWN IS SEIVE) AND BOULDERS WITH 95% COMPACTION
- 10. PIPE LAYING AND PIPE SHALL BE JOINED BY INTERNAL FLUSH JOINT AS PER LS 458 & MORTH SPECIFICATIONS. C1.2900
- 1. THE LENGTH OF PIPE IS MENTIONED 2500 (TVP.) BUT IN CASE. IF LENGTH REQUIRED IS LESS THAN 2500 THEN LENGTH OF CULVERT ADJUSTED ACCORDINGLY.
- 12. THIS DRAWING SHALL BE READ IN CONJUCTION WITH RELEVANT HIGHWAY DRAWINGS FRU & CAMBER SUPER ELEVATION AT PARTICULAR LOCATION SHALL BE VERIFIED WITH THE HIGHWAY DRAWING.
- LENCASING SHALL BE PROVIDED AS MENTIONED IN DRAWING IN CASE CUSHION OVER PIPE IS LESS THAN 600mm EXCLUDING ROAD CRUST AS PER IRC SP-84:2014.
- 14 AFTER INSTALLATION OF PIPES, THE GAPS IN RETWEEN THE PIPES SHALL BE FILLED WITH CEMENT SAND MORTAR
- 5. DISCREPANCY IF ANY IS TO BE IMMEDIATELY BROUGHT IN TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING
- 16. SEISMIC ZONE V
- 17. AT THE ENDS OF CULVERT ADQUATE CUTOFF WALL SHOULD BE PROVIDE IN FOLLOWING CASES.
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- B) WHERE UNSUITABLE SOIL IS REPLACE BY GRANULAR MATERIAL
- 18. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO 18:4786 CLEAR COVER TO ENCASING SLAB SHALL RE 25mm
- 19. LAP LENGTH TO BE PROVIDED AS PER CODEL PROVISION.

FOR REVIEW & APPROVAL





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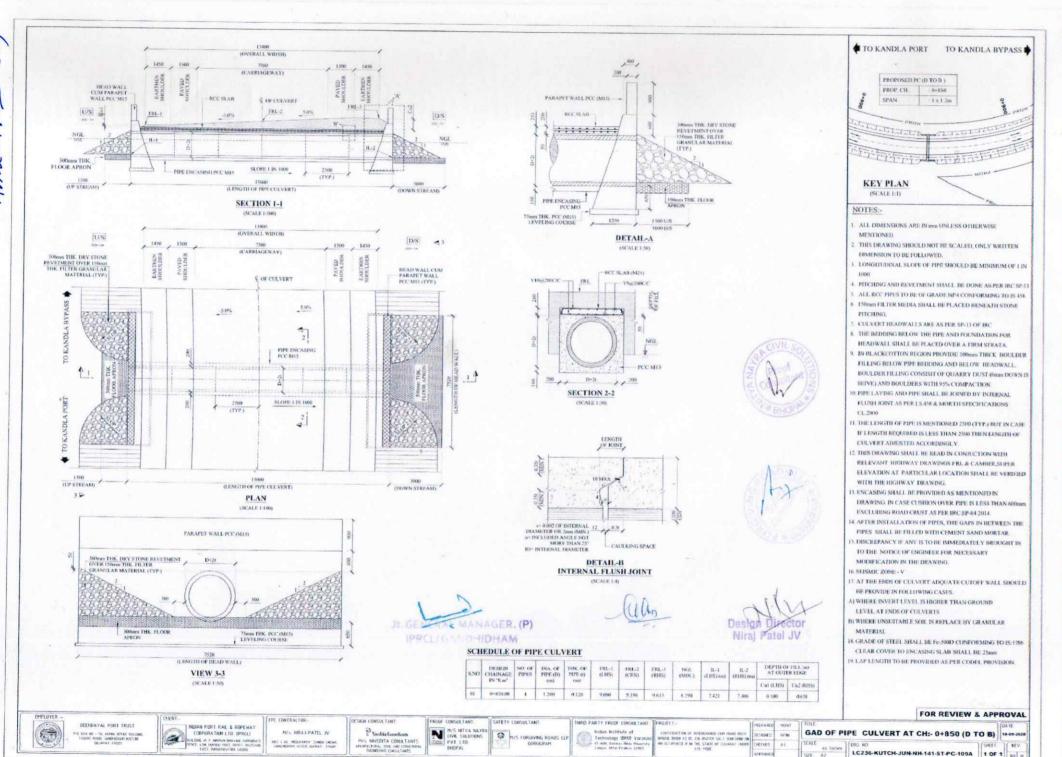
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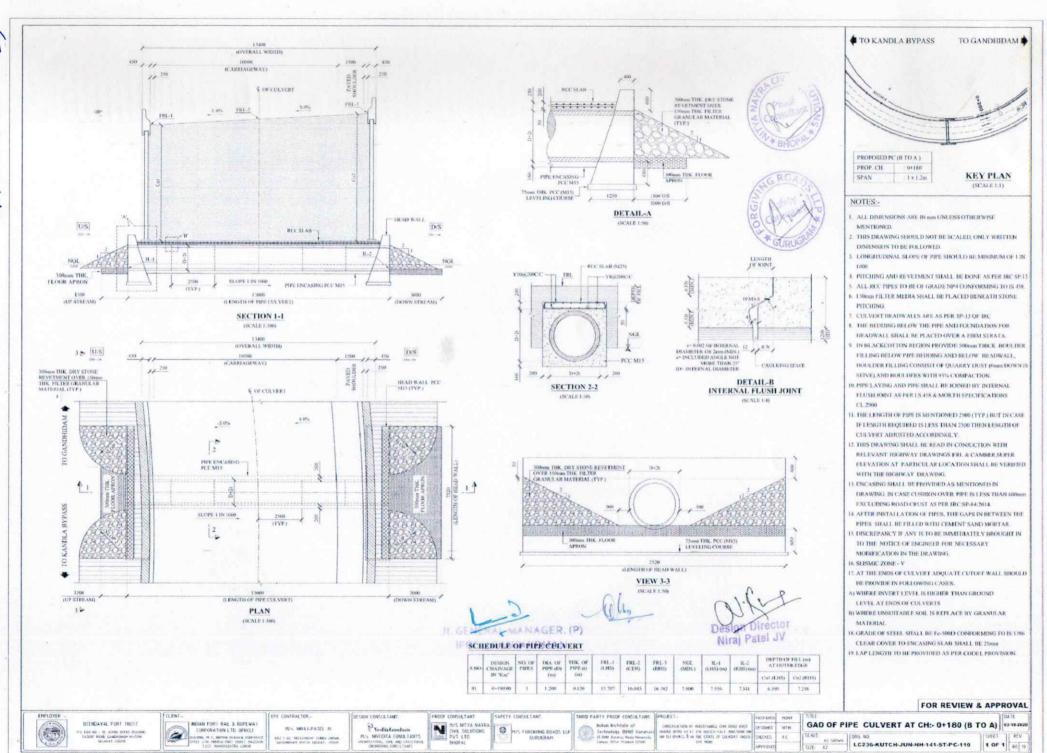
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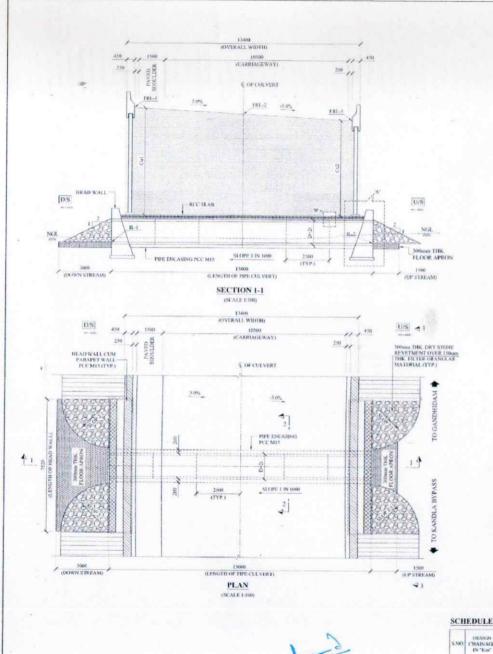
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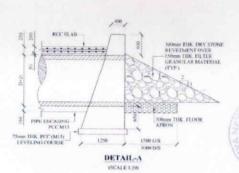
NTN SCALE LC235-KUTCH-JUN-NH-141-ST-PC-109

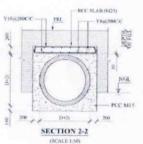
GAD OF PIPE CULVERT AT CH:- 0+230 (D TO B) 18-09-2620

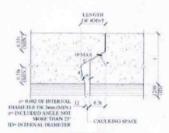












DETAIL-B INTERNAL FLUSH JOINT (SCALE 1:4)

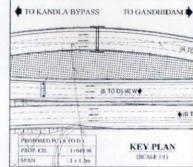






#### SCHEDULE OF PIPE CULVERT

s.NO.	CHAINAGE	NO. OF PIPES	DIA OF PIPE (D)	THE OF PIPE (G	PRIL-i (LHS)	FRL-2 (CEN)	FRL-3 (RHS)	NGL (MIN.)	IL-t (LHS) (m)	fL-z (RHS) (m)	AT OUT	
	EN "Km"	Km <sup>e</sup> (m)	(m)	(m) (m)						Cut (LRS)	Cult (RHS)	
91	1+049,98	1	1.200	0.120	15.021	14.708	14.396	7.650	7,379	7.394	6.070	5.433



#### NOTES:-

- . ALL DIMENSIONS ARE IN 1000 UNLESS OTHERWISE MENTIONED
- THIS DRAWING SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSION TO BE POLLOWED.
- 3. LONGITUDINAL SLOPE OF PIPE SHOULD BE MINBALIM OF 1 IN
- 4. PITCHING AND REVETMENT SHALL BE DONE AS PER IRC SP.13
- 5. ALL RCC PIPES TO BE OF GRADE NP4 CONFORMING TO IS 458.
- 6. 150mm FILTER MEDIA SHALL BE PLACED BENEATH STONE PITCHING.
- CULVERT HEADWALLS ARE AS PER SP-13 OF IRC
- THE BEDDING BELOW THE PIPE AND FOUNDATION FOR HEADWALL SHALL BE PLACED OVER A FIRM STRATA
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- 11. THE LENGTH OF PIPE IS MENTIONED 2500 (TYP.) BUT IN CASE IF LENGTH REQUIRED IS LESS THAN 2500 THEN LENGTH OF CULVERT ADJUSTED ACCORDINGLY.
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- 3. ENCASING SHALL BE PROVIDED AS MENTIONED IN DRAWING IN CASE CUSHION OVER PIPE IS LESS THAN 600mm EXCLUDING ROAD CRUST AS PER IRC SP-84-2014.
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- 15. DISCREPANCY IF ANY IS TO BE IMMEDIATELY BROCKSHT IN TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING
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- 8. GRADE OF STEEL SHALL BE Fc-500D CONFORMING TO IS:1786
- CLEAR COVER TO ENCASING SLAB SHALL BE 25mm 19.1 APLENGTH TO BE PROVIDED AS PER CODEL PROVISION.

FOR REVIEW & APPROVAL



BEENBAYAL PORT TRUST

MEIAN PORT RAIL & ROPEWAY CORPORATION ( TO MPRCL) THE THE PARTY OF T

THE CONTRACTOR MAL NEAL PATEL JV

E Vinedita Consultants MYS NIVERITA CONCETANTS
AMERICANAL CHIEF AND STRUCTURA
ENGRÉEPHIS CANSELEANES

It. GELECAL WANAGER. (P) IPRCLIGANDHIDHAM

> PROOF CONSULTANT MVS NITYA NAYRA PVT LTD.

SAFETY CONSELTANT

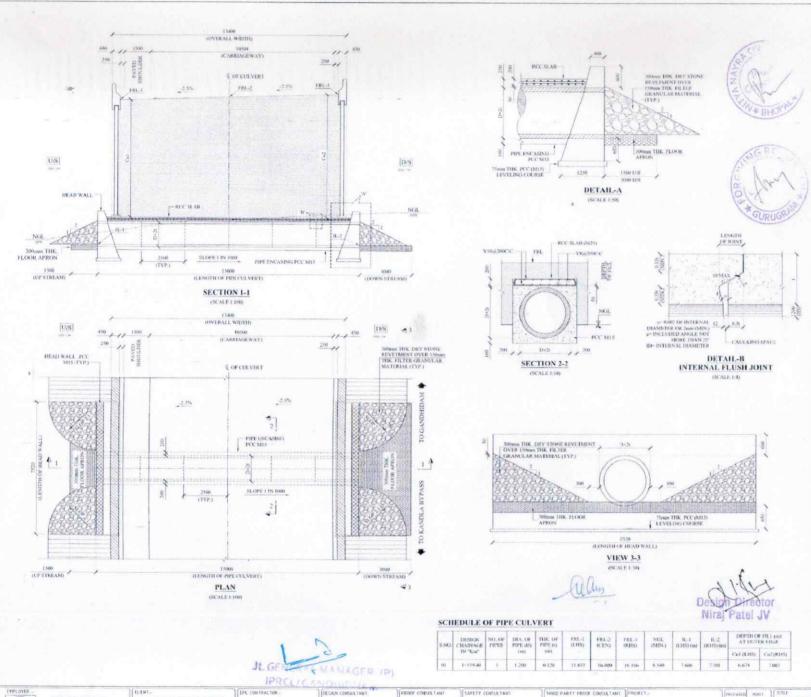
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THIRD PARTY PROOF CONSULTANT (PROJECT

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GAD OF PIPE CULVERT AT CH:- 1+049.98 (A TO D) 18-09-2020 NETH SCAL

LC236-KUTCH-JUN-NH-141-ST-PC-111 1 OF 1 00 0



TO KANDLA BYPASS TO GANDHIDAM PROPOSED PC (E TO B) PROP. CH. 1+579.40 SPAN :1 x 1.2m (E TO B) MCW KEY PLAN (SCALE L1) NOTES:-ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED THIS DRAWING SHOELD NOT BE SCALED ONLY WRITTEN DIMENSION TO BE POLLOWED. LONGITUDINAL SLOPE OF PIPE SHOULD BE MINIMEM OF LIN PITCHING AND REVETMENT SHALL BE DONE AS FER IRC SP-13 S. ALL RCC PIPES TO BE OF GRADE NP4 CONFORMING TO IS 458. 150mm FILTER MEDIA SHALL BE PLACED BENEATH STONE PITCHING CULVERT HEADWALLS ARE AS PER SPUTOF IRC THE BEDDING BELOW THE PIPE AND FOUNDATION FOR HEADWALL SHALL BE PLACED OVER A FIRM STRATA. IN BU ACKCOTTON REGION PROVIDE SHOWN THICK BODD DER FILLING BELOW PIPE BEDDING AND BELOW HEADWALL, BOULDER FILLING CONSIST OF QUARRY DUST (emm DOWN IS SEIVE) AND BOULDERS WITH 95% COMPACTION. 6 PIPE LAYING AND PIPE SHALL BE JOINED BY INTERNAL FLUSH JOINT AS PER LS.458 & MORTH SPECIFICATIONS 11. THE LENGTH OF PIPE IS MENTIONED 2500 (TYP) BUT IN CASE DELENGTH RECHIRED IS LESS THAN 2500 THEN LENGTH OF CULVERT ADJUSTED ACCORDINGLY. 12. THIS DRAWING SHALL BE READ IN CONJUCTION WITH RELEVANT HIGHWAY DRAWINGS FRL & CAMBER SUPER ELEVATION AT PARTICULAR LOCATION SHALL BE VURBEED WITH THE HIGHWAY DRAWING. 3. ENCASING SHALL BE PROVIDED AS MENTIONED IN DRAWING, IN CASE CUSHION OVER PIPE IS LESS THAN 600mm EXCLUDING ROAD CRUST AS PER IRC SP-84-2014. 14. AFTER INSTALLATION OF PIPES, THE GAPS IN BETWEEN THE PIPES. SHALL BE FILLED WITH CEMENT SAND MORTAR. 5. DISCREPANCY IF ANY IS TO BE IMMEDIATELY BROUGHT IN TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING. 6 SEISMIC ZONE - V 17. AT THE ENDS OF CULVERT ADQUATE CUTOFF WALL SHOULD. BE PROVIDE IN FOLLOWING CASES. A) WHERE INVERTILEVEL IS HIGHER THAN GROUND LEVEL AT ENDS OF CULVERTS BY WHERE UNSUITABLE SOIL IS REPLACE BY GRANDLAR MATERIAL 18, GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS 1786 CLEAR COVER TO ENCASING SLAB SHALL BE 25mm 19. LAP LENGTH TO BE PROVIDED AS PER CODEL PROVISION.

FOR REVIEW & APPROVAL



DEENDAYAL FORT TRUST

I INDIAN PORT RAIL & HOPEWAY CORPORATION LTD. (IPROL)

HEL NEAF-PATEL IV

Pandita Capathonia 1975. NEVEDITA CONDUTANT HVS NITYA NAYBA

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Indian Institute of Technology (EMU) Varia 91 890, Seria at Helic Brown Catcol: What Project (2786)

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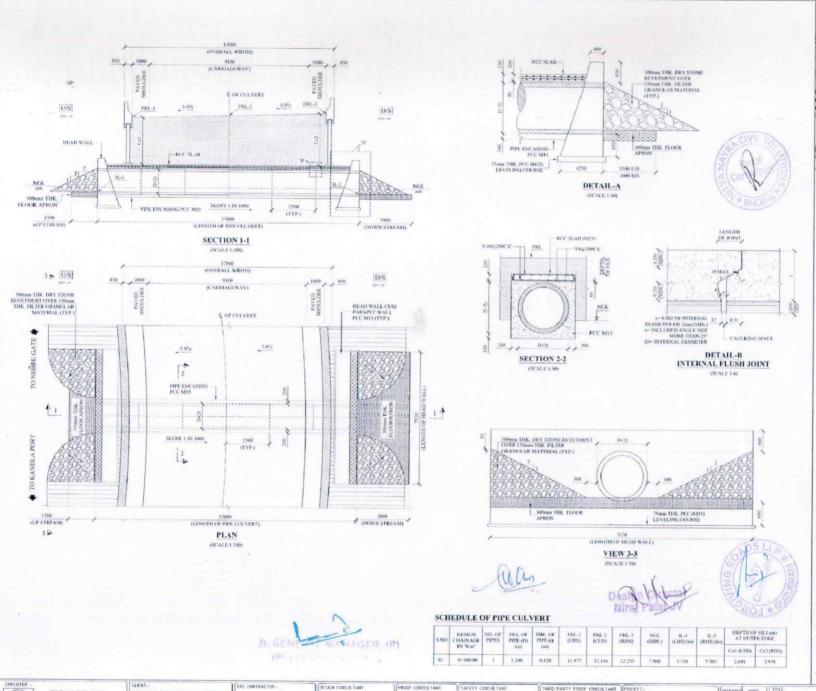
GAD OF PIPE CULVERT AT CH:- 1+579.4 (E TO B) 03-10-2020 LC236-KUTCH-JUN-NH-141-ST-PC-112

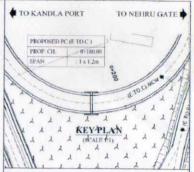
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EPC CONTRACTOR

MYS FORGIVING ROADS LLF





#### NOTES:

- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED
- 2. THIS DRAWING SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSION TO BE FOILLOWED.
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- 150mm FILTER MEDIA SHALL BE PLACED BENEATH STONE PITCHING
- CULVERT HEADWALLS ARE AS PER SP-13 OF IRC
- THE BEDDING BELOW THE PIPE AND FOUNDATION FOR HEADWALL SHALL BE PLACED OVER A FIRM STRATA.
- IN BLACKCOTTON REGION PROVIDE 500mm THICK. BOULDER FILLING BELOW PIPE BEDDING AND BELOW HEADWALL. BOULDER FILLING CONSIST OF QUARRY DUST (6mm DOWN IS SEIVE) AND BOULDERS WITH 95% COMPACTION.
- 10. PIPE LAYING AND PIPE SHALL BE JOINED BY INTERNAL FLUSH JOINT AS PER LS 458 & MORTH SPECIFICATIONS
- 11. THE LENGTH OF PIPE IS MENTIONED 2500 (TYP.) BUT IN CASE IF LENGTH REQUIRED IS LESS THAN 2500 THEN LENGTH OF CULVERT ADJUSTED ACCORDINGLY
- 2. THIS DRAWING SHALL BE READ IN CONJUCTION WITH RELEVANT HIGHWAY DRAWINGS FRL & CAMBER SUPER. ELEVATION AT PARTICULAR LOCATION SHALL BE VERBEED WITH THE HIGHWAY DRAWING.
- 3. ENCASING SHALL BE PROVIDED AS MENTIONED IN DRAWING IN CASE CUSHION OVER PIPE IS LESS THAN 600 tons EXCLUDING ROAD CRUST AS PER IRC SP-84-2014
- 14. AFTER INSTALLATION OF PIPES, THE GAPS IN BETWEEN THE PIPES SHALL BE FILLED WITH CEMENT SAND MORTAR.
- IS DISCREPANCY IF ANY IS TO BE IMMEDIATELY BROUGHT IN TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING.
- 17. AT THE ENDS OF CULVERT ADQUATE CUTOFF WALL-SHOULD BE PROVIDE IN FOLLOWING CASES:
- A) WHERE INVERTILEVEL IS HIGHER THAN GROUND LEVEL AT ENDS OF CULVERTS
- B) WHERE UNSUITABLE SOIL IS REPLACE BY GRANDLAR MATERIAL
- 18. GRADE OF STEEL SHALL BE Fe-500D CONFORMING TO IS:1786 CLEAR COVER TO ENCASING SLAB SHALL BE 25min
- 19. LAP LENGTH TO BE PROVIDED AS PER CODEL PROVISION.

FOR REVIEW & APPROVAL



DEENDAY AL PORT TRUST



MOIAN PORT RAL & ROPEWAY CORPORATION LTD. IIPRCLI

MYS. NRALPATEL IV

Siredita Consultrate PL/S. INVEDITA CONDITANTS

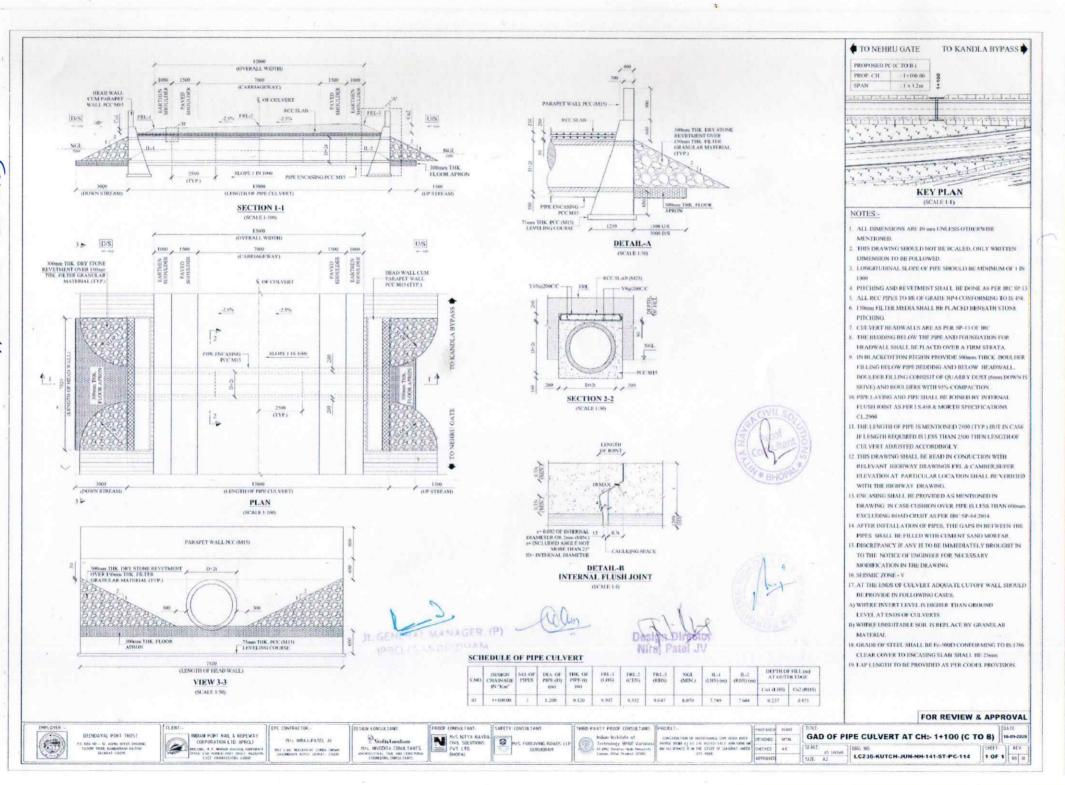
H/S HETYA NAYA CIVIL SOCUTIONS PV1 LTD. BHOPAL

**EURUGRAN** 

THEORY INCO AT LE 23 (MINTO) SALT ANCHOM ON THE STATE OF SHARRAS INCOME.

GAD OF PIPE CULVERT AT CH:- 0+180 (E TO C) 18.09-2020 SCALE DRG. NO. LC236-KUTCH-JUN-NH-141-ST-PC-113

1 OF 1 20 10



# Annexure VII (In 6 Pages)



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone: (079) 23222425

(079) 23232152

Fax: (079) 23232156

Website: www.gpcb.gov.in

### By R.P.A.D.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous & Other Waste (Management & Transboundary Movement) Rules-2016, framed under the Environmental (Protection) Act-1986.

And whereas Board has received application inward No.118092 dated 23/03/2017 for the Consolidated Consent and Authorization (CC&A) of the Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

## CONSENTS AND AUTHORISATION:

(Under the provisions /rules of the aforesaid environmental acts)

M/s Patel Construction Co, Plot No:- S.No:- 932,

Tal:- Anjar,

Dist: Kutch-370 410.

- 1. Consent Order No. AWH- 85951 Date of Issue: 11/05/2017
- 2. The consent shall be valid up to 22/03/2022 for manufacturing of the following product:

Sr. No.	PRODUCT	QUANTITY MT/ MONTH
1.	Road Paving Material (Hot mix plant)	2500 MT/Month

# 3. SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS:

- 3.1 No ground water shall be withdrawal without obtaining prior permission from competent authority.
- 4. CONDITIONS UNDER WATER ACT 1974:
- 4.1 Industrial effluent generation from manufacturing process and other ancillary operations shall be Nil, as generated waste water shall be recycled & there shall not be waste water discharge.
- 4.2 The quantity of the Sewage effluent from the factory shall not exceed 0.5 KL/day.

4.3 The quality of the sewage shall conform to the following standards:

PARAMETER	PERMISSIBLE LIMIT
BOD (3 days at 27° C)	20 mg/L
Suspended Solid	30 mg/L
Residual Chlorine	Minimum 0.5 mg/L

Annexuse VII (2)

- 4.4 Unit shall provide sprinkling system to mitigate dusting and also provide pacca road in premises to prevent dusting.
- 4.5 Sewage shall be disposed off through septic tank / soak pit system.

## 5. CONDITIONS UNDER AIR ACT 1981:

5.1 The following shall be used as fuel in D.G. Set.

Sr.No.	Fuel	Quantity
1.	LDO	45 ltr/hr

5.2 The flue gas emission through various stack / Vent of DG sets / Boiler / Furnace Heater shall conform the following standards

Sr. no.	Stack attached to	Stack height in Meters	APCM	Parameter	Permissible limit
1.	D. G. Set-500 KVA (stand by)	11		PM SO₂ NOx	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm

5.3 The process gas emission from the manufacturing process as well as other ancillary operations shall be as following:-

	Stack attached to	Stack height in meters	Air Pollution Control System	Parameter	Permissible limit
1.	Dryer 🕻	11	Dust collector & circulation scrubber	SO <sub>2</sub>	150 mg/NM <sup>3</sup> 100 ppm -50 ppm

5.4 The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder as per National Ambient Air Quality Standards issued by MOEF & CC dated 16<sup>th</sup> November-2009.

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient air in µg/M <sup>3</sup>
1.	Sulphur Dioxide (SO <sub>2</sub> )	Annual	50
1.	Sulphur Dioxide (SO <sub>2</sub> )	24 Hours	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	Annual	40
۷.	Mitrogen Dioxide (NO <sub>2</sub> )	24 Hours	80
3.	Particulate Matter	Annual	60
٥.	(Size less than 10 µm) OR PM <sub>10</sub>	24 Hours	100
1	Particulate Matter	Annual	40
4.	(Size less than 2.5 µm) OR PM 2.5	24 Hours	60



# GUJARAT POLLUTION CONTROL BOARD

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Website: www.apcb.gov.in

- 5.5 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.
- 5.6 The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:

Between 6 A.M. to 10 P.M.: 75 dB (A) Between 10 P.M. to 6 A.M.: 70 dB (A)

- Hazardous and Authorization under (Management, other waste Transboundary Movement] Rules, 2016 & amended.
- 6.1 Authorization Number: AWH 85951 and shall valid up to 22/03/2022.
- 6.2 M/s Patel Construction Co, is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at, Plct No:- S.No:- 932, Tal:- Anjar, Dist: Kutch-370 410.

Sr. No.	Waste	Quantity per Annum	Category	Mode of Disposal
1.	Used Oil	0.2 T	5.1	Collection, storage, Transportation, Disposal by selling out to registered recyclers/re-processer

- 6.3 The 4.authorization is granted to operate a facility for collection, storage, within factory premises, transportation, and ultimate disposal of Hazardous wastes at TSDF.
- 6.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

### 6.5 GENERAL CONDITIONS OF AUTHORIZATION:

- 1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
- 3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.

- Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- 5. Hazardous Waste generated shall be disposed off in accordance with the Hazardous Waste & other waste(Management & Transboundary Movement) Rules, 2016 as amended and unit shall have to obtain authorization of the Board for all applicable categories of Hazardous wastes.
  - (a) Used oil / spent oil shall be disposed off by selling it to registered rerefiner units only.
  - (b) Oily sludge from separators shall be dispose or of selling it to registered re-refiners unit only.
  - (c) ETP sludge shall be disposed of at TSDF approved by the Board.
  - (d) Used batteries shall be sold to the GPCB authorized dealers.
- 6. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time:
- 7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
- 8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 9. The record of consumption of hazardous and other wastes shall be maintained.
- 10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 11. An application for the renewal of an authorization shall be made as laid down under these Rules.
- 12. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 13. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

#### 7. GENERAL CONDITIONS

7.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.



## GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone: (079) 23222425

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Website: www.gpcb.gov.in

- 7.2 The waste generator shall be totally responsible for (i.e. Collection, storage, transportation and ultimate disposal) of the wastes generated.
- 7.3 Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form - 4 by 31st January of every year.
- 7.4 In case of any accident, details of the same shall be submitted in Form 5 to Gujarat Pollution Control Board.
- 7.5 Applicant shall comply relevant provision of "Public Liability Insurance Act 91".
- 7.6 Empty drums and containers of toxic and hazards material shall be treated as per guideline published for "management & handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
- 7.7 In no case any kind of hazardous waste shall be imported without prior approval of appropriate authority.
- 7.8 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 10 meters width is developed.
- 7.9 The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act, 1986.
- 7.10The over all noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulation hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under the Environment (Protection) Act, 1986 & Rules.
- 7.11 The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following blevels: ... Between 6 A.M. and 10 P.M.: 75 dB (A)

Between 10 P.M. and 6 A.M.: 70 dB (A)

7.12In case of transport of hazardous waste to a facility for (i.e. Treatment, Storage and disposal) existing in a state other than the state where hazardous waste are generated, the occupier shall obtain "No Objection certificate" from the state pollution Control Board, the Committee of the concerned state or Union territory Administration where the facility exists.

- 7.13 Unit shall take all concrete measures to show tangible results in waste generation reduction, voidance, reuse and recycle. Action taken in this regards shall be submitted within 03 months and also along with Form 4.
- 7.14 You shall have to display the relevant information with regard to hazardous waste as indicated in the Hon. Supreme Court's order in W.P. No.657 of 1995 dated 14th October 2003.
- 7.15 Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous waste generated within the factory premises.

For and on behalf of GUJARAT POLLUTION CONTROL BOARD

(Sushil Vegda)

Senior Environment Engineer

NO: PC/ CCA- KUTCH- 1273/GPCB ID: 46211/ 415000 Date: 156/17

ISSUED TO:

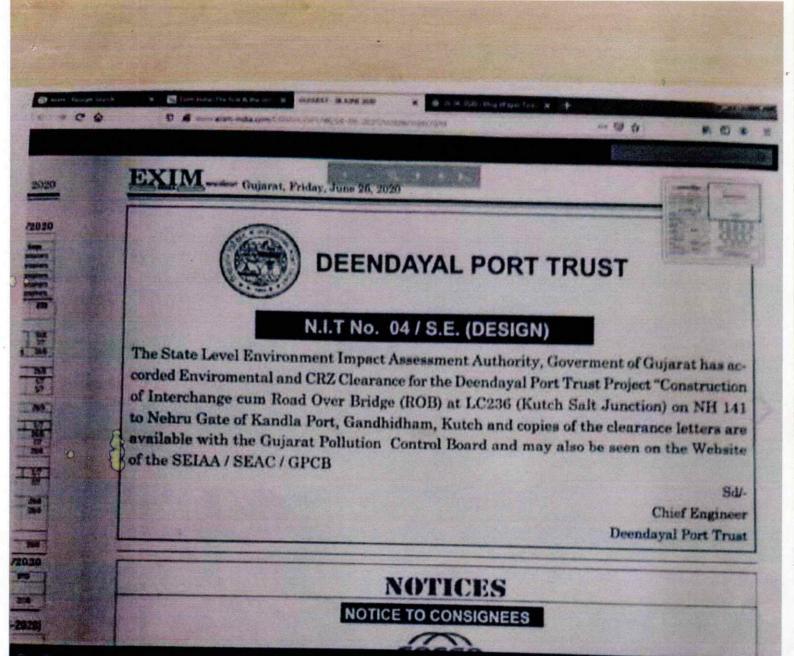
M/s Patel Construction Co,

Plot No:- S.No:- 932,,

Tal:- Anjar,

Dist: Kutch-370 410.

# Annexure VIII (In 2 Pages)



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કે અન્ય વાહનમાં મુસાફરી કરતા પ્રવાસીઓ માસ્ક, સેનિટાઈઝરનો ઉપયોગ ન કરતા હોવા છતાં આસાનીથી મુસાફરી કરે છે. કચ્છમાં ફરી કોરોનાનો ડંખ તિક્ષણ બન્યો છે. ત્યારે જો તકેદારી નહીં રાખવામાં આવે તો સ્થિતિ બેકાબુ બનતા વાર નહીં લાગે.

કે, લોકડાઉન-૪થી એસટી વિભાગ દ્વારા પ્રાયોગીક ધોરક્ષે ડેપો ટ ડેપોના રૂટ શરૂ કરવામાં આવ્યા હતા અને હવે જિલ્લામાં ૧૭ પીકઅપ સ્ટેન્ડ પણ બનાવામાં આવ્યા છે. જયાં પ્રવાસીઓ બસમાં ચડી શકે છે. તો હવે કચ્છમાં જનજીવન સામાન્ય બની રહ્યું છે. ત્યારે કચ્છમાં એસટીની સેવા રાખેતા મુજબ શરૂ કરવાની

शह

માંગ ઉઠી पश आग સેવા શરૂ મામ્ય જવા માટે ન હોવાથ હજ શહે: %ना अन વિસ્તારમ આવી ત આશ લગ એસટી બ श3 કरवा સરકાર હ તે અંગે આવી ન જ સરકાર આવશે. આપવામ મીટ મંડા

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# द्दीनह्यास पोर्ट

ગુજરાત સરકારના સ્ટેટ લેવલ એનવાયરમેન્ટ ઇમ્પેકટ એસેસમેન્ટ ઓથોરીટી દ્વારા દીનદયાલ પોર્ટ ટ્રસ્ટની પરિચોજના "કન્સ્ટ્રકશન ઓફ ઇંટરચેંજ કમ રોક ઓવરબ્રિજ (આર.ઓ.બી.) એટ એલસી-૨૩૬ (કચ્છ સોલ્ટ જંકશન) ઓન એન.એચ. ૧૪૧ ટુ નેદરૂ ગેટ ઓફ કંડલા પોર્ટ ગાંઘીઘામ, કરછને પર્યાવરણ સી.આર.ઝેડની મંજૂરી આપવામાં આવેલ છે. આ મંજૂરી સંદર્ભેના પત્રોની નકલો રાજ્ય પોલ્યુશન કંટ્રોલ બોર્ડ પાસેથી મળી શકશે. તેમજ એસ.ઇ.આઇ.એ.એ./એસ.ઇ.એસી./ જી.પી.સી.બી.ની વેબસાઇટ પર જોઇ શકાશે.

> मुज्य धक्रनेर દીનદયાલ પોર્ટ ટ્રસ્ટ

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વારો

રોયલ પ્લોટ્સ એલ.એલ.પી.

# **ANNEXURE-2**

# Monitoring the implemental Safe guards Ministry of Environment & Forests

# Regional office (WZ), Bhopal. Monitoring Report (Up to May 2024) DATA SHEET

Sr.	Particulars	Reply
No.		
1.	Project type: River valley/	Infrastructure and Miscellaneous Projects + CRZ
	Mining/Industry/	
	thermal/nuclear/Other (specify)	
2.	Name of the project	Construction of Interchange cum Road over
		Bridge (ROB) at LC-236 (Kutch Salt Junction) On
		NH-141 in the State of Gujarat under EPC Mode
3.	Clearance Letter (s). OM no and date	SEIAA/GUJ/EC&CRZ/8(b)/728/2020 dated
		19/06/2020
4.	Location	
	a) District (s)	a) Kutch
	b) State (s)	b) Gujarat
	c) Location/latitude/longitude	c) Longitude70°13″Eand Latitude 23°01N
5.	Address for Correspondence	
	a) address of Concerned Project Chief	a) Chief Engineer, Deendayal Port Authority,
	Engineer (with pin code &	Administrative Office Building Annexe
	telephone/telex/fax numbers	Building, First Floor, Post Box No.50
		Gandhidham - 370201
	b) Address of Executive project	b) Superintending Engineer (Harbour),
	Engineer/manager/ (with pin code	Deendayal Port Authority, A.O. Building,
	fax numbers)	Annex, Post Box No50, Gandhidham-
		Kutch. Gujarat Pin – 370201

6.	Salient features a) Of the Project	Salient feature of the project	
	a) of the froject	Sr. Particulars Details	
		1. Project Name Construction Interchange Cum Road Over Bridge(ROB) at LC- 236 (KUTCH SALT JUNCTION) On NH-141 in the State of Gujaran under EPC Mode	d C- T n
		2. Activity at Road over Bridge over the site railway crossings and a barren stretch	
		3. Length of the 14.892 Kms Stretch	
		4. Built-up Area 255148.5 m <sup>2</sup>	
		5. Cost of the Rs. 284 Crores project	
7	b) Of the Environmental Management Plan  Production Details during compliance	Environmental Management Plan the incorporates all issues related to air, wath land and noise.  •Planning: This includes identification environmental impacts, legal requirements a setting environmental objectives.  •Implementation: This comprises resources available to the developed accountability of contractors, training operational staff associated with environment control facilities and documentation measures to be taken.  •Measurement & Evaluation: This includes monitoring, counteractive actions and record keeping	the that ter, of and of ers, of ntal of des
7.	Production Details during compliance period and (or) during the previous financial year	Not applicable	
8.	Breakup of the project area a) Submergence area: forest & nonforest	Length of the Stretch: 14.89 kms Build up Area: 255148.5 m2	

_		
	b) Others	No forest land is involved in the project
9.	Breakup of the project affected	The habitation and households are near to the
	population with enumeration of those	proposed project site as the area already falls
	losing houses/dwelling units only	under the property of port. The villages fall in the
	agricultural land & landless	2-10 km. range from the proposed site and hence
	laborer/artisen	there will not be much impact to the people.
	a) SC. ST/Adivasis	
	b) Others	
	(please indicate whether these figures	
	are	
	based on any scientific and systematic	
	survey carried out of only provisional	
	figures, if a survey is carried out give	
	details and years of survey).	
10.	Financial details	
	a) Project cost as originally planned	a) Planned Cost: Rs. 232.62 Crores
	and	Revised Cost: Rs. 284 Crores
	subsequent revised estimates and the	
	year of prices reference	
	b) Allocation made for environmental	b) Allocation made for Environmental
	management plans with item wise and	Management plan: 15 lakhs
	year wise break-up	Management plant 15 lakiis
	Density and a straight of the same to the set	
	c) Benefit cost ratio/Internal rate of	
	Return and the year of assessment	c) Not applicable
	Whether (c) includes the cost of	
	environmental management plans so	
	far.	
	d) Actual expenditure incurred on the	
	d) Actual expenditure incurred on the	d) 284 Crores
	project	.,
	e) Actual expenditure incurred on the	
	environmental management plans so	
	environmentai management pians so	

	far.	e) -
11.	Forest land requirement	No forest land is involved in the project
	<ul><li>a) The status of approval for diversion of forest land for non-forestry use</li><li>b) The status of clear felling</li><li>c) The status of compensatory</li></ul>	
	a forestation, if any d) Comments on the viability & sustainability of compensatory a forestation programmed in the light of actual field experience so far	
12.	The status of clear felling in non-	Not applicable.
	forestareas (such as submergence area of reservoir, approach roads), if any with quantitative information.	
13.	Status of construction a) Date of commencement (Actual and/orplanned) b) Date of completion (Actual and/or planned)	<ul><li>(a) Date of start of project 01/10/2020.</li><li>(b) Schedule date of completion 31/03/2023.</li><li>Actual date of completion 29/05/2023.</li></ul>
14.	Reasons for the delay if the Project is yet to start	Not applicable
15.	Date of site visited  a) The dates on which the project was monitored by the regional office on pervious occasion. if any b) The date site visit for this monitoring report	Not applicable
16.	Details of the correspondence with project authorities for obtaining action plans/information on status of compliance to safeguard other than the routine letters for logistic support for site visit.	<ul> <li>a) Chief Engineer, Deendayal Port Authority, Administrative Office Building Annexe Building, First Floor, Post Box No.50 Gandhidham – 370201</li> <li>b) Dy. Chief Engineer, EMC (I/c)</li> </ul>
	(The first monitoring report may contain the details of all the letters issued so far but the later reports may cover only the letters issued subsequently.)	Deendayal Port Authority, A.O. Building, Annex, Post Box No50, Gandhidham- Kutch. Gujarat Pin – 370201