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



Administrative Office Building Post Box NO. 50

Dated: 24/03/2025

GANDHIDHAM (Kutch). Gujarat: 370 201.

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

www.deendayalport.gov.in

EG/WK/5202 (D)/ Part/54

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

<u>Sub:</u> 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) – <u>Compliance of stipulated conditions mentioned in the CRZ recommendations req.</u>

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

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 up to **September 2024**) along with necessary annexure submitted by M/s IPRCL, for kind information & record please (**Annexure 1**).

...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 -1

Subject: Point-wise Compliance Status Report for CRZ clearance for proposed project for Construction 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- $\underline{ENV-10-2017-74-}$ \underline{E} dated 21.01.2018

S. No.	CRZ Conditions	Compliance Status
	SPECIFIC CONDITIONS	
1.	The DPT shall strictly adhere to the provisions of the CRZ Notification, 2011	For the compliance of point 1 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
2.	Necessary permissions from different departments/ agencies under different laws/ acts shall be obtained before commencing any activity including the construction activities	For the compliance of point 2 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
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.	For the compliance of point 3 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
4.	The DPT shall ensure that there shall not be any blockage of creek and free flow of water is maintained	For the compliance of point 4 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
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.	For the compliance of point 5 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
6.	No vehicle or equipments shall be parked or re fuelled near the water-body, so as to avoid contamination from fuel and lubricants	For the compliance of point 6 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
7.	Hot mix plants/concrete mix plants shall be located and operated in such a way that there shall be no Air pollution.	For the compliance of point 7 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
8.	The DPT shall ensure that the quarry works, from which they will purchase raw materials, shall confirm to the	For the compliance of point 8 please find attached herewith compliance submitted by

S. No.	CRZ Conditions	Compliance Status
	norms and having necessary clearances from the respective authorities.	IPRRCL (Executive agency) placed herewith as Annexure 1
9.	The DPT shall make MOU with raw material supplier quarry/hot mix plants e.t.c 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.	For the compliance of point 9 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
10.	The DPT shall explore the possibility for using the fly ash @ 5%-10% to comply with the Fly Ash Notification.	For the compliance of point 10 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
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.	For the compliance of point 11 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
12.	There shall no discharge of any kind of wastewater/sewage/effluent into the creek/sea or in the CRZ areas.	For the compliance of point 12 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
13.	The DPT shall implement all the suggestions/recommendations given in the EIA report by their consultant M/s. Mantech Consultant Pvt. Ltd.	For the compliance of point 13 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
14.	No ground water shall be taped to meet with the water requirements during the construction and/or operation phases.	For the compliance of point 14 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
15.	The DPT shall not discharge any kind of waste including the construction debris into the river/estuary or into the CRZ areas.	For the compliance of point 15 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
16.	The DPT shall ensure that the construction camps are kept outside the CRZ areas and the construction labour are provided with adequate	For the compliance of point 16 please find attached herewith compliance submitted by

S. No.	CRZ Conditions	Compliance Status
	amnesties like drinking water, fuel, sanitation etc. to ensure that the existing environmental condition is not deteriorated by them.	IPRRCL (Executive agency) placed herewith as Annexure 1
17.	The DPT shall regularly submit the half-yearly compliance report on the conditions stipulated by this department/SEIAA	For the compliance of point 17 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1
18.	Any other conditions that may be stipulated by this department/SEIAA from time to time for environmental protection/management purpose.	For the compliance of point 18 please find attached herewith compliance submitted by IPRRCL (Executive agency) placed herewith as Annexure 1

Annexure -A

Subject: Point-wise Compliance Status Report for CRZ clearance for proposed project for "Construction 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-E dated 21.01.2018.

S. No.	CRZ Conditions	Compliance Status
	SPECIFIC CONDITIONS	
1.	The DPT shall strictly adhere to the provisions of the CRZ Notification, 2011	IPRRCL (Project Implementation Agency) was adhered to all the provisions of CRZ Notification -2011.
2.	Necessary permissions from different departments/ agencies under different laws/ acts shall be obtained before commencing any activity including the construction activities	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.
		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.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.
		Hot Mix Plant and Concrete mix plant is located 7 km away from project site and GPCB approval of same is

Annexure -I (2)

S. No.	CRZ Conditions	Compliance Status
		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.
9.	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.
10.	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. The solid waste generated from construction 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/sewage/effluent into the 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

Annexure -I (3)

S. No.	CRZ Conditions	Compliance Status
		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.
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.

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:

Nehru gate of Kandla port, Gandhidham, Kutch by M/s Deendayal Port Trust".

EC & CRZ Clearance issued by SEIAA, Gujarat vide EC Letter No.

SEIAA/GUJ/EC&CRZ/8(b)/728/2020 dated 19th June, 2020

A. 1 Specific Conditions: -

Sl. 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 Annexure I (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 SEAC/ SEIAA before commencement of work for the project.	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)(.
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	Traffic diversion plan has been prepared considering smooth flow of traffic and same

Addl. GENERAL MANAGER. (P)
IPRCL/GANDHIDHAM

1

	scheme to ensure smooth flow of traffic from & to the proposed ROB.	is approved by NHAI. The approval letter is attached as Annexure V(in 3 pages) .
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.	No vehicles or equipment shall be parked or refuelled near the water-body, so as to avoid contamination from fuel and lubricants.	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.	The DPT shall make MOU with the 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 compiled 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.
19.	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.	Sewage generated during the construction phase was treated in 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.
22.	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 labourers.

Addl. GENERAL MANAGER. (P)
IPRCL/GANDHIDHAM

3

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	It is being ensured that during operation
	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.	phase water is being purchased from GWSSB.
27.	No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.	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. Provisions shall be made for ground water recharge through rain water harvesting as per the details submitted. Before recharging the run off pre-treatment must be done to remove suspended matter.	The project site area has saline water and impervious soil strata. The ground water recharge for rain water harvesting not required.
29.		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 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.	The D.G set conforming to emission limit prescribed under EPA rules was 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

34.	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.	No hazardous waste was generated during the project construction.
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.		It was ensured that plastic waste was segregated and disposed off by selling it to the registered recyclers.
37.		It was ensured that the Solid wastes are disposed in compliance to the Solid Waste Management rules- 2016.

A. 3.4 SAFETY:

	SAFETY:	
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.
40.	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 MINIMISATION:

42.		It was ensured that the LED lights are
	maximum use of natural light, wind & ventilation through architectural design, solar based LED lights in landscaped and drive way areas, LED/CFL light for walk	provided in all the offices & site for energy conservations during construction of the project.
	way areas etc. shall be provided as proposed.	

Addl. GENERAL MANAGER. (P)
IPRCL/GANDHIDHAM

5

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 guide the visitors for				
	parking and helping the senior citizens				
	and physically challenged people.				

It was ensured that the Parking of equipment's are done at site office area and the visitors are guided by trained staff.

A. 3.7 GREEN BELT

44.	Green belt area of 25,000 m ² shall be
	developed as proposed. Plantation along the bridge and road shall be done with
	the bridge and road shall be done with
	native varieties.

It was ensured that the Green belt area was developed as per the tender provision.

B. GENERAL CONDITIONS:

1. PRE -CONSTRUCTION AND CONSTRUCTION

45	T	I m
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.	Temporary wind shield shall be done to prevent dust emission spreading outside the project premises. Barricade of adequate height shall be provided on the periphery of the construction site with adequate signages, Individual building within the project site shall also be provided with barricades.	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.	Water sprinkling was done in vulnerable area on need basis.
50.	The roads inside the project area and roads connected to the main road shall be paved or shall be water sprinkled to	Water sprinkling are done in diversion roa to avoid the fugitive emissions durin vehicular movement.

6

	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, Varanas 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.	It was ensured that all required sanitary and hygienic measures were provided before starting the construction activities.
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 removed after completion of the project.	Temporary houses were constructed for labour at work site area with necessary infrastructure & facilities.
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	Sufficient First aid boxes were provided at work site office.

7

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.
64.	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.	Safe disposal of wastewater and municipal solid wastes generated during the construction phase shall be ensured.	Solid wastes and water waste were disposed properly by making soak pits.
67.	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.
69.	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	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.

8

	Transboundary) Rules 2008. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes
73.	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.	Construction of project work is completed on 29.05.2023 and here is no construction materials and debris are available at work site.
74.	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.	Construction debris were removed from work site and reclaimed with plantation.
76.	Excavated earth to be generated during the construction phase shall be utilized within the premises to 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.	The excavated earth debris were removed from work site.
77.	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.	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead-free paints in the project.	Fly ash was used for ready mix concrete work.
80.	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	Fly ash was used for ground improvement work and RE wall construction work.
81.	Use of glass shall be minimal and only low emissive glass shall be used in the project	Used as per requirement.

to reduce the electricity consumption and	
load on air conditioning.	.4

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.	Low water consuming devices were provided at places whenever required.
83.	A water meter shall be installed on rain water harvesting & ground water recharge well system & compliance report of the same shall be submitted to concerned authorities.	As the project site area is saline in nature rain water harvesting is not possible.
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	Proper diversion road with signages as approved by NH Authorities are provided without parking space so that no blocking occurs.

10

	road shall be used-or blocked for the parking.	
91.	The project proponent shall install energy efficient devices, appliances, motors, and pumps conforming to the Bureau of Energy Efficiency norms.	The same was provided wherever required
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 lawn 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 applicable, shall be obtained by the project proponent from the competent authorities.	N/A.

100.	All the conditions as may be stipulated in the NLA. order, Development	N/A.
	permission, Building Use permission, NOC obtained from Fire Department etc. shall be strictly complied with.	
101.	The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards proposed by them.	The environment protection measures, risk mitigation measures and safeguards proposed are complied.
102.	All the commitments/ undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	Noted please.
103.	The project proponent shall also 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.	Noted please.
104.	At the terms & conditions prescribed in the amendment of EIA Notification — 2006 published by the MoEF&CC vide its Notification No, S.O. 3999(E) dated 9th December, 2016 shall be complied with letter & spirit.	Conditions prescribed in the EIA notification 2006 are compiled.
105.	The project proponent shall 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.	Noted please.
106.	No further expansion or modifications in the project likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Construction work is completed as per the approved environment clearance.
107.		As clarified in above points.

B. OTHER CONDITIONS

		.4
108.	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.	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 implement the conditions stipulated by Forest & 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 of SEIAA/SEAC/GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	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 30/06/2020. The newspaper cuttings are attached as Annexure – VIII(in 2 pages) .
111.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned and shall be uploaded on website of Gujarat Real Estate Regulatory Authority, on 1st June and 1st December of each calendar year.	Compliance report is being submitted periodically.

112.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	It is ensured that GPCB stipulations are adhered to.
113.	The project authorities shall inform the GPCB, Regional Office of MoEF&CC and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	(a) Date of start of project 01/10/2020. (b) Schedule date of completion 30/03/2023. (c) Actual date of completion 29/05/2023.
114.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory. This environmental clearance is valid for seven years from the date of issue.	It is hereby ensured that conditions provided in the clearance issued by SEIAA will be implemented properly.
115.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 2 period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Point Please.
116.	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	

Annexure -I (in 3 pages)

Subject: Point-wise Compliance Status Report for CRZ clearance for proposed project for "Construction 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-E dated 21.01.2018.

S. No.	CRZ Conditions	Compliance Status
	SPECIFIC CONDITIONS	L. C.
1.	The DPT shall strictly adhere to the provisions of the CRZ Notification, 2011	IPRRCL (Project Implementation Agency) was adhered to all the provisions of CRZ Notification -2011.
2.	Necessary permissions from different departments/ agencies under different laws/ acts shall be obtained before commencing any activity including the construction activities	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.
		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.	The Construction of the project has been completed on 29/05/2023. The maintenance period is 4 years.
		Hot Mix Plant and Concrete mix plant is located 7 km away from project site and GPCB approval of same is

Annexure -I (2)

S. No.	CRZ Conditions	Compliance Status
		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.
9.	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.
10.	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. The solid waste generated from construction 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/sewage/effluent into the 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

Annexure -I (3)

S. No.	CRZ Conditions	Compliance Status
		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.
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 II (In 4 Pages)

Subject: Point-wise Compliance status report for CTE for proposed project for construction 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: - GPCB CTE-89489 vide letter No-PC/CCA-KUTCH-1449/GPCBID-56869 dated 03.10.2017.

DPT had signed an MOU with M/s IPRCL vide Certificate no. IN-GJ952233559268925 dated 09.06.2020 wherein it was IPRCL was appointed as the Project Implementation Agency for the project.

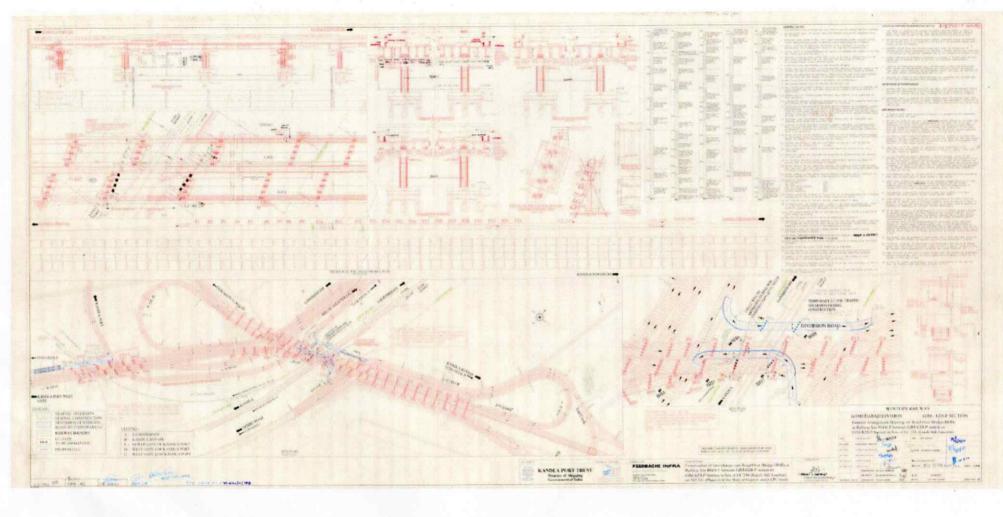
S.No.	CTE Conditions	Compliance Status	
	SPECIFIC CONDITIONS		
1.	This CTE 89489 is granted subject to the condition that you shall not stall any construction activities prior to obtaining of EC and CRZ clearance from competent authority fort their interchange cum road over bridge at 14.892 km.	EC & CRZ Clearance has been issued by SEIAA, Gujarat vide EC letter No. SEIAA/GUJ/ EC&CRZ/ 8(b)/728/2020 dated 19/06/2020. Date of start of commencement of the project 01/10/2020 and completed by 29.05.2023	
2.	No ground water to all condition of ToR issued by SEIAA vide order No. SEIAAGUJ/ToR/8(b)/471/2017 dated 29.04.2017.	It was ensured that no ground water was tapped during the construction phase.	
3.	Unit Shall adhere to all condition of TOR issued by SEIAA vide order No. SEIAAGUJ/TOR/8(b)/471/2017 dated 29.04.2017.	IPRCL was adhere to all condition of ToR issued by SEIAA vide order No. SEIAAGUJ/ToR/8(b)/471/2017 dated 29.04.2017.	
1.	CONDITIONS UNDER WATER ACT 1974:		
1.1	The generation of effluent construction operators shall not exceed of 16 kl/day and water shall be used for sprinkling purpose by dust suppression purpose.	IPRCL had used that the water sprinkling in vulnerable area on need basis.	
1.2	The sewage shall be disposed through septic tank.	The Sewage generated during the construction phase was treated in septic tank.	
2.	CONDITIONS UNDER AIR ACT 1981:		
4.1	There shall be no flue gas emission and process emission from construction activity and other ancillary emission.	There was no flue gas emission and process emission from construction activity and other ancillary emission.	
4.2	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 Emission Standards issues by Ministry of Environment, Forest and Climate change date 16th November, 2009.	The concentration of the various parameters in the ambient air within the premises of the construction camp was not exceeded the limits specified hereunder as per national Ambient Air Quality Emission Standards.	

	No.	Pollutant	Time Weight Average	Concentration in Ambient Air in Ug/M3	· · ·
	1.	SO2	Anuual 24 hrs	50 80	
	2.	NO2	Anuual 24 hrs	40 80	
	3.	PM10	Anuual 24 hrs	60 100	
	4.	PM2.5	Anuual 24 hrs	40 60	
a.	, platfor the air for ins The cl of em such painte identification.	orm etc. at emissions spection to himney (s) ission shall as S-1, S-2 ed / cfication.	chimney(s and the sa and for us attached t be design t, etc. and displayed	potholes, ladder c) for monitoring me shall be open e of Board's staff. o various source ned by numbers these shall be to facilitate	This segment is not applicable as it is a road project.
b.	The concentration of Noise in Ambient Air within the premises of industrial unit shall not exceed following levels: Between 6 A.M. and 10 P.M. :75 dB(A) Between10 P.M. and 6 A.M. :75 dB(A)				The concentration of noise in Ambient Air within the premises of construction camp was not exceeded the prescribed levels.
	COND	ITIONS UN	DER HAZ	ARDOUS WASTE	
5.1	1			rdous Waste	The provisions of Hazardous Waste (Management, Handling & Trans -boundary Movement Rule-2016) was adhered.
5.2	The applicant shall obtain membership of common TSDF site for disposal of Hazardous Waste (Management ,Handling & Transboundary Movement Rule-2016)			sal of Hazardous dling & Trans-	The necessary permission was obtained as and when required.
5.3	The applicant shall obtain membership of common Hazardous waste incinerator for disposal of incinerable waste.				The necessary permission was obtained as and when required.
5.4	The applicant shall provide temporary storage facilities for each type of hazardous waste as per Hazardous Waste (Management, Handling & Transboundary movement) Rule-2016.				Noted Please.
		RAL COND			ml III
6.1	per th	ne GPCB g ate land i	uidelines. s not ava	t on road side as However if the cilable with the ne up with local	The Horticulture is provided in the median and greenbelt development area.

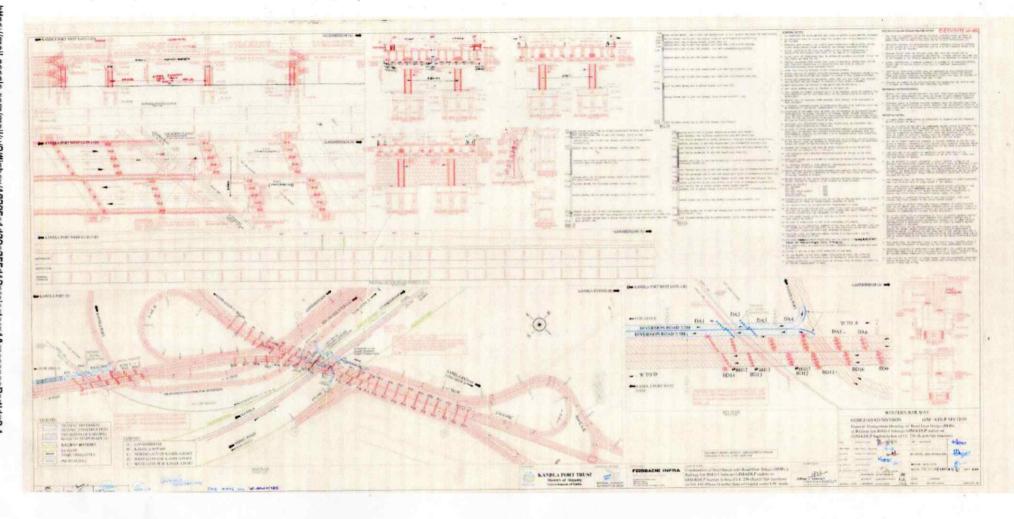
	agencies like gram panchayat, school, social forestry office etc. for the plantation at suitable open land in nearby locality and submit an action plan of plantation for next three years to GPCB.	
6.2	In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the Board.	Noted Please.
6.3	The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to the 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.	Noted Please.
6.4	The overall 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.	The overall noise level in and around the construction camp area was kept well within the standards by providing various noise control measures.
6.5	Applicant is required to comply with the manufacturing, storage and Import of Hazardous chemicals Rules -1989 formed under the Environment (Protection) Act 1986.	Noted Please.
6.6	If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property in that case they are obliged to pay the compensation as determined by the competent authority.	Noted Please.
6.7	Applicant shall have to comply with all guidelines, Directive issued/being issued by MoEF /CPCB/DoEF from time to time.	Noted Please.

6.8	Applicant shall not use/withdraw ground water either during construction and / operation phase.	Noted Please.
6.9	Environmental cell shall be setup and shall be responsible for the total Environmental management.	All the environment related aspects of the project during construction and operational phase was supervised by Project Implementation Agency. DPT has signed an MOU with M/s. IPRCL vide Certificate no. IN-GJ952233559268425 dated 09.06.2020 wherein IPRCL was appointed as the Project Implementation Agency for the project.
6.10	Monitoring in respect to Air, Water, Noise level shall be carried out and results shall be submitted to this Board on quarterly basis.	Noted Please.

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

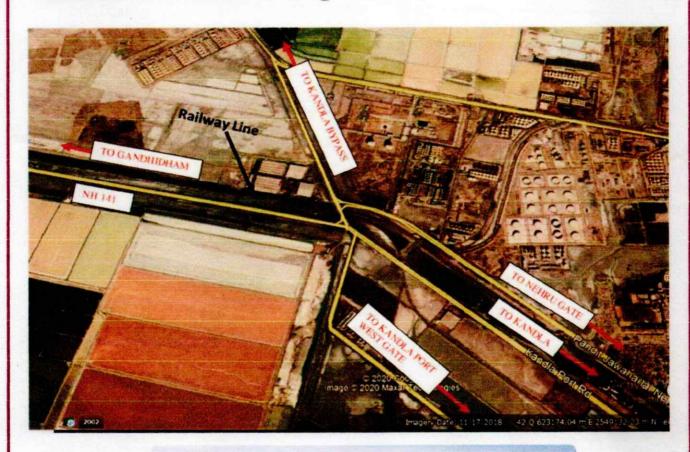


Construction of Interchange cum Road Over Bridge (ROB) at LC 236 (Kutch Salt - Junction) on NH 141 (Phase- I) in the State of Gujarat under EPC mode.

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: nivcons@gmail.com

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
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:



email: nivcons@gmail.com

Nivedita Consulting

B – 98, Sector – A, Sanik Vihar Colony, Nandanagar, Kunraghat, Gorakhpur – 273008 (UP) Phone: +91-0124-4054562;

Project:	Construction of Interchange cum ROB	
Doc. Title	Design of ROB Super structure at CH:0+639.1	Nivedita Consultants
and the same of th	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	0.				
1		Design of PSC I Girder and Diaphragm	1	- 1	383			
2	Design of RCC I Girder and Diaphragm	389		486				
3	Design of RCC Deck Slab	487		510				

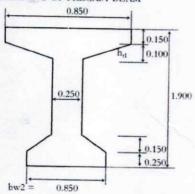
Design of PSC I - Girder

Annexure My

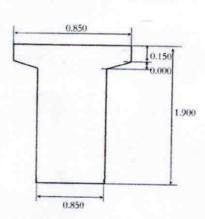
Project: Construction of Interchange cum ROB Doc. Title Design of ROB Super structure at CH:0+639.1				
		Ž Ni	E' Nivedita Consultants	
Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639,1-DN-01			
33370		Rev.		RO

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	(CLC)
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 t/m ³	
Size of bearing	=	0.600 x	0.600 m
		(Long)	(Trans)

PROPORTINING OF PRECAST BEAM



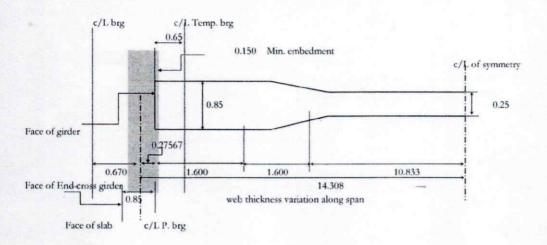
Section at Mid Span



Section at Support

Annexy xIV (6).

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



Web 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:

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 %
Exposure condition = SEVERE

Proof Checked

Change Cont

Prof. K. K. Pathak
Department of Civil Engineering
Department of Technology

Prof. R. A. Department of Civil Engineering Department of Civil Engineering Indian Institute of Technology Banaras Hindu University Varanasi-221005

MANAGER (P) IPRCL

Project:	Construction of Interchange cum ROB	P Nivedita Con	cultants
Doc. Title	Design of ROB Super structure at CH:0+639.1	Z Hittura Con	_
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

For short Term loading Ecm = 34000 MpaFor long Term loading $Ecm' = Ecm/(1+\phi)$

Creep

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

Notational size ho 2Ac/u = 352 mm

 $\phi(\infty) = 1.53 \text{ (Refer Appendix B)}$

 $Ecm' = 12682.7 \text{ N/mm}^2$

SERVICEABILITY LIMIT STATE:

Rare Combination

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

Max permissible tensile Stress in Concrete

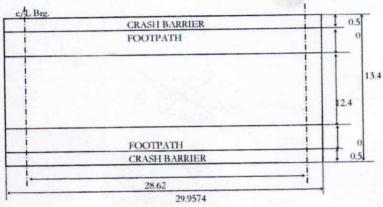
fctm = -3.3 Mpa =fctm (mean tensile strength)

Quasi permanent Combination

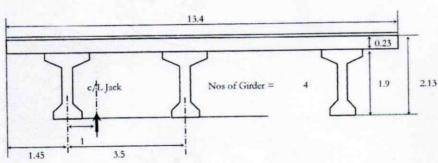
Max permissible Stress in Concrete = 0.36*fck(t)

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

Permissible crack width w_{k,max} = 0.2 mm



PLAN



Super-structure Cross-section

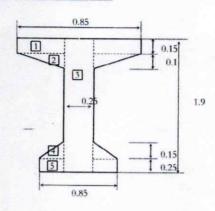
Project: Construction of Interchange cum ROB		0		
Doc. Title	Design of ROB Super structure at CH:0+639.1	Y	Nivedita Con	sultants
Doc. no.	KUT-SUP STR-ROB-RLY-CH"0+639.1-DN-01	Rev		T RO

PROPERTY CALCULATION OF PRECAST BEAM:-

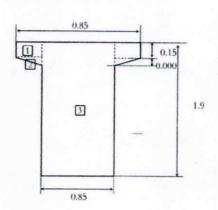
Density of concrete

2.5 t/m3

ALINNER/ OUTER GIRDER:



Section at Mid Span



Section at Support

Section Property At Mid Span

Element	Factor	В	D		A	cg,	Izz	cg _z .	Iyy	
No.	Factor	m	m	Nos.	m ²		m ⁴	m	m ⁴	
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

ROADSTLE A GURUGE

Section Property At Support Section

Element	Hactor	В	D	Nos.	A	cg _y .	Izz	cg,	I _{yy}
No.	Tactor	m	m	1403.	m ²	m	m ⁴	m	m ⁴
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

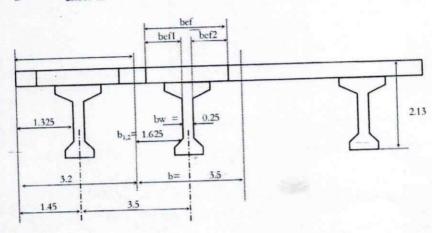
Section At		unit	Face	Jacking	c/L brg.	c/L brg.	deff	Te	L/8	TS	2L/8	3L/8	4L/8
Dist. From c/I	. brg.	m	0	0.15	0	0	1.8105	1.600	3.577	3.200	7.154	10.731	
web width	bw	m	0.85	0.85	0.85	0.85	0.78266	0.85	0.25	0.33818	0.25	0.25	0.25
Area	A	m ²	1.615	1.615	1.615	1.615	1.522	1.615	0.790	0.911	0.790	0.790	0.790
Izz		m ⁴	0.486	0.486	0.486	0.486	0.470	0.486	0.348	0.368	0.348	0.348	
Iyy		m ⁴	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		

MANAGER (P) / IPRCL GANDHIDHAM Proof Checked

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

Project:	Construction of Interchange	cum ROB	P Vin	edita Consultants
Doc. Title	Design of ROB Super struct	ure at CH:0+639.1	Rev.	. 1
Doc. no.	KUT-SUP STR-ROB-RLY-	CH"0+639.1-DN-01	Kev.	
Effective Span	lo =	Min { Distance from bearing to bearing Clear distance b/w supports + Effetive depth		
Bearing Size in I	Longitudinal dir." =			
lo =	Min { 28.6166 +	1.8105 */ (Effective depth assumed 0.85 times of Overall depth)		
lo =	28.617 m			

EFFECTIVE WIDTH CALCULATION:



beff. CALCULATION FOR INNER GIRDER:

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

beff_{1,2} = 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:

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

beff₁ = Min
$$\begin{cases} 0.2 \text{ bi } + 0.1 \text{ bi} = 3.1 \text{ m} \\ 0.2 \text{ bi} = 5.72331 \text{ m} \end{cases}$$

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

beff₂ = 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
$$\begin{cases} \sum beff, i + bw & -= & -6.56331 \text{ m} \\ b & = & 3.2 \text{ m} \end{cases}$$

Project	Construction of Interchange cum ROB	P _V	vedita Cons	cultants
Doc Title	Design of ROB Super structure at CH:0+639.1		reuna 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 _{ED}	β	βV_E	o d	bw	k= Min [1+ \\200/d,2]	Asl	p1 = Min [Asl/bw d , 0.02]	$v_{min} = 0.031 \text{ k}^{3/2}$ $fck^{1/2}$	σ_{cp}	$V_{Rdc} = Max [(0.12 \text{ k} (80 \text{ p1 fck})^{0.33} + (0.15 \sigma_{cp}) \text{ bw d},$ $(V_{min} + 0.15 \sigma_{cp}) \text{ bw}$	Check
	Т		T	mm	mm		mm ²			Мра	Tonne,	
Cantilever Port Cantilever (Girde Cantilever (Girde	er Top Flange 10.06			06 179 98 429			1330.557 1330.557	0.0074	0.555 0.428		12.2251 18.4751	No Shear reinf. Required No Shear reinf. Required
Intermediate so Girder Top Flag	e Face		1 11	.17	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			.55 17			1330.557 1330.557	0.0031			18.4751 12.2251	No Shear reinf. Required









Annume Du



इंडियन पोर्ट रेज कारपॉरेशन 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:

Mirai - Patel JV

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



Design of ROB Test Pile @ Ch.0+639

Sep 2020





wedita Consultants

Sector - A, Sanik Vihar Colony, Nandanagar, Kunraghat, Gorakhpur - Phone: +91-0124-4054562; email: nivcons@gmail.com

AUTHORITY:



इंडियन पोर्ट रेज कारपोरेशन विमिटेड (भारत सरकार का उपजस) Indian Port Rail Corporation Ltd. (A Government of India Enterprise) CIN No. U80300DL2015GOI282703



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 TEST PILE at CH:0+639.1

Doc. Number:	KUT-TEST PILE-ROB-RLY-CH"0+639.1-DN-01	Prepared By:	CN
Rev. No:	R0	Checked By:	NK
Date:	8/9/2020	Approved By:	NK

Date:	Rev No.	Revision	Ву
1,575			
8/9/2020	R0	For Review and Approval	CN

DESIGN CONSULTANT:

email: nivcons@gmail.com



Nivedita Consulting

B – 98, Sector – A, Sanik Vihar Colony, Nandanagar, Kunraghat, Gorakhpur – 273008 (UP) Phone: +91-0124-4054562;

Project:	Construction of Interchange cum ROB		
Doc. Title	Design of ROB TEST PILE at CH:0+639.1	Y Vivedita	onsultants
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/cm² 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

L₁/T

0.000

Corresponding value of L_f/T Depth of fixity, L₁

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

L₁ + L_f for free head pile

7.36 m

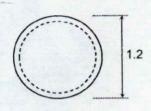
Proof Checked

GANDHIDHAM

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

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

Equaivalent load for free head pil	e Q _{free} = y*3 EI /(L	$1+Lf)^3$	=	4.53 Tonne	
	-	Say	=	5.00 Tonne	
Factored design load			=	5 x	2.5
			=	12.5 Tonne	
Free Head moment	М		=	Q _{free} *(L ₁ +L _f)	
			=	92.0 Tm	1 0
Moment reduction factor	m		=	0.400 Tm	Unimpetor IV
Modified design Bending Momen	t M _d		=	36.8 Tm	Design Palel 3
ULS Modified design Bending Me	oment M _d		=	55.2 Tm	
R/F Calculation of test Pile					



Material Properties:

fck =		35	N/mm ²		
fyk	=	550	N/mm ²		
Es	=	200000	N/mm ²		

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 ²
% 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

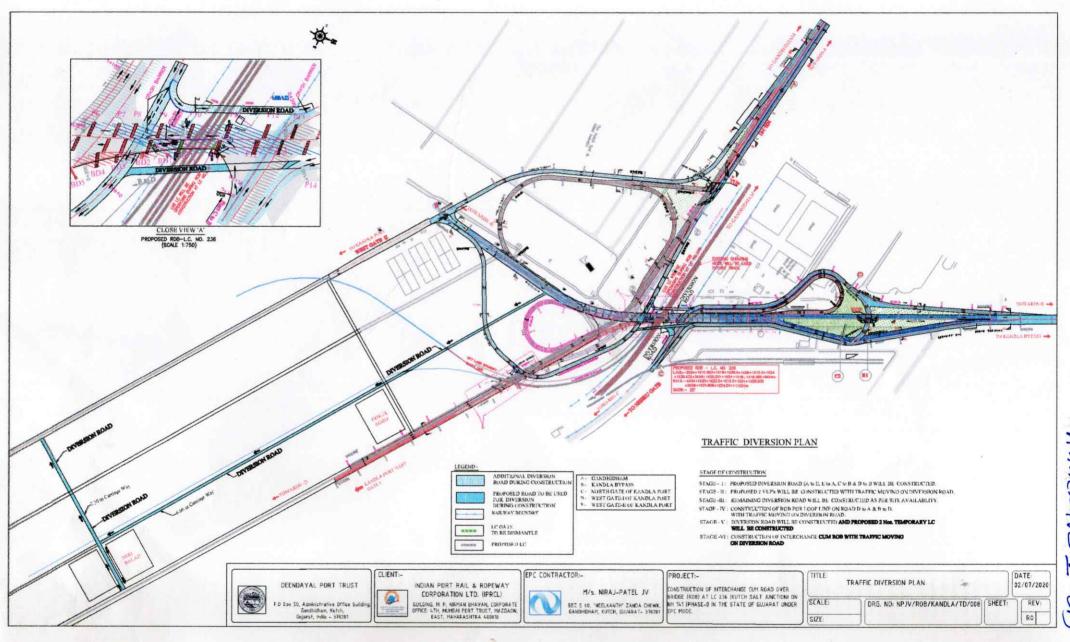
106 Tm

-500

55.2 Tonne OK

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 वर्षुर्य 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,
MAZGAON 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:-



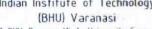
M/S NITYA NAYRA CIVIL SOLUTIONS PVT. LTD. BHOPAL



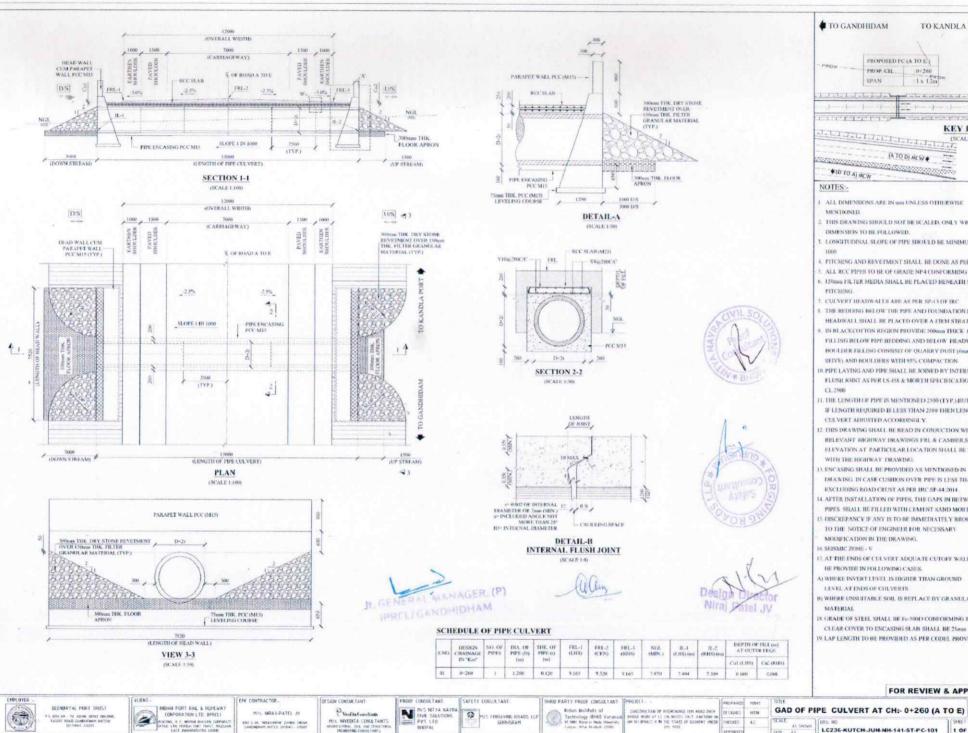
EMPLOYER:

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

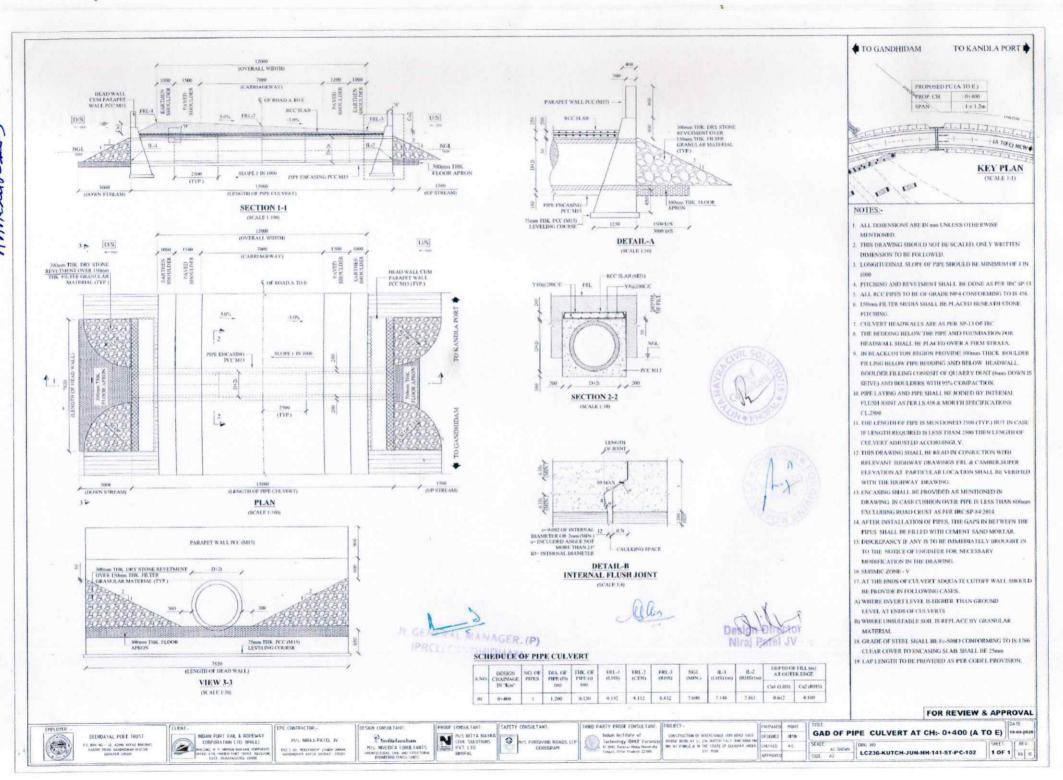


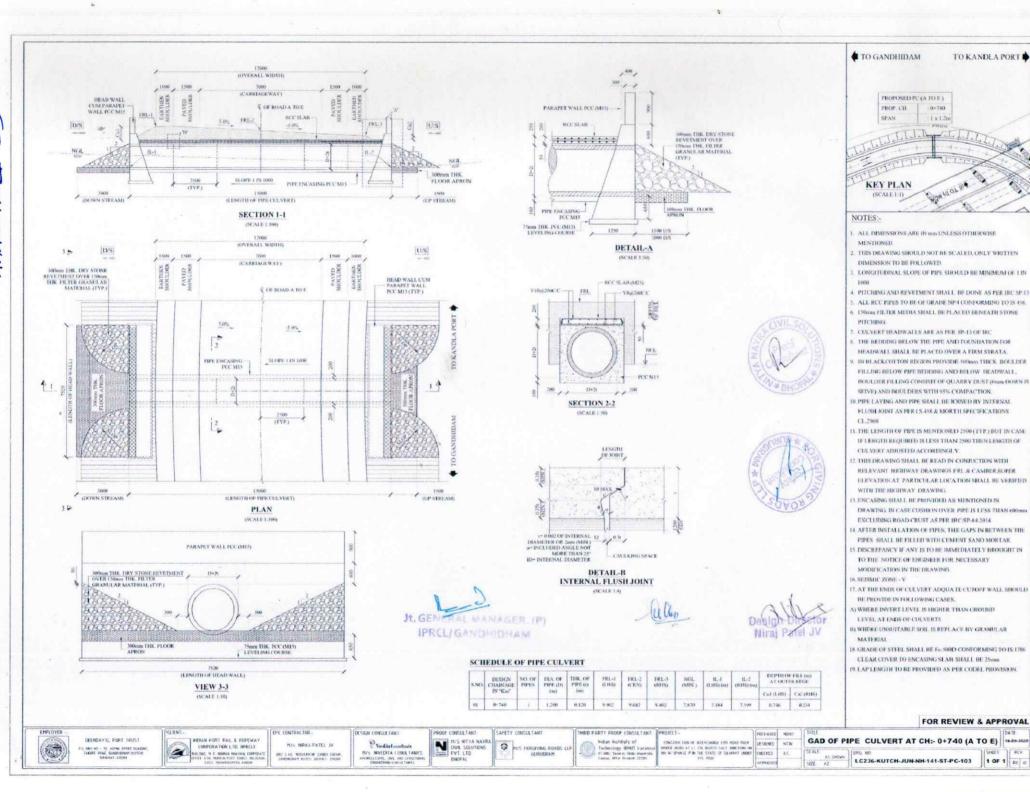
TO GANDHIDAM TO KANDLA PORT 123 PROPOSED BC (A TO E) PROP. CH. 0+260 SPAN 1 x 12m Little Little Little Land at Land at Land representative the second of t KEY PLAN (A TO D) MCW *ID TO AT MCW NOTES: ALL DIMENSIONS ARE IN um UNLESS OTHERWISE MENTHUMED THIS DRAWING SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSION TO BE POLLOWED. 1. LONGITUDINAL SLOPE OF PIPE SHOULD BE MINIMUM OF 1 IN 1. PITCHING AND REVETMENT SHALL BE DONE AS PER IRC SP 13 ALL RCC PIPES TO BE OF GRADE NP4 CONFORMING TO IS 438. 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 SOONS THICK BOLD DEP FILLING BELOW PIPE BEDDING AND BELOW HEADWALL. BOULDER FILLING CONSIST OF QUARRY DUST (60m DOWN IS SEIVE) AND BOOLDERS WITH 95% COMPACTION. 6. PIPE LAYING AND PIPE SHALL BE JOINED BY INTERNAL FLUSH JOINT AS PER LS.458 & MORTH SPECIFICATIONS CL 2900 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 FRU & CAMBER SUPER ELEVATION AT PARTICULAR LOCATION SHALL BE VERIFIED WITH THE HIGHWAY DRAWING. 3. ENCASING SHALL BE PROVIDED AS MENTIONED IN DRAWING. IN CASE CUSHION OVER PIPE IS LESS THAN 400mm 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. 16 SEISMIC ZONE - V 17. AT THE ENDS OF CULVERT ADOUATE CUTOFF WALL SHOULD BE PROVIDE IN FOLLOWING CASES. A) WHERE INVERTILEVEL IS HIGHER THAN GROUND LEVEL AT ENDS OF CULVERTS BO WHERE UNSUITABLE SOIL IS REPLACE BY GRANDLAR. MATERIAL 18. GRADE OF STEEL SHALL BE Fc-500D CONFORMING FO 18:1786 CLEAR COVER TO ENCASING SLAB SHALL BE 25mm 19. LAP LENGTH TO BE PROVIDED AS PER CODEL PROVISION.

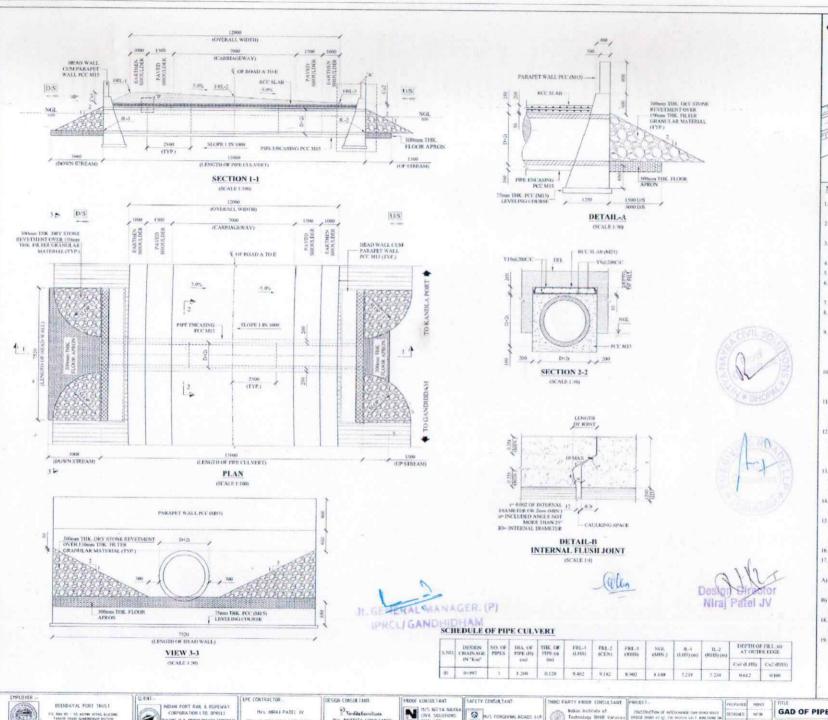
LC236-KUTCH-JUN-NH-141-ST-PC-101

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



S. BOX NO - SS, ADMIN STREET BUS DIS-TAGGER STREET SLANGERSHALD POSTERS

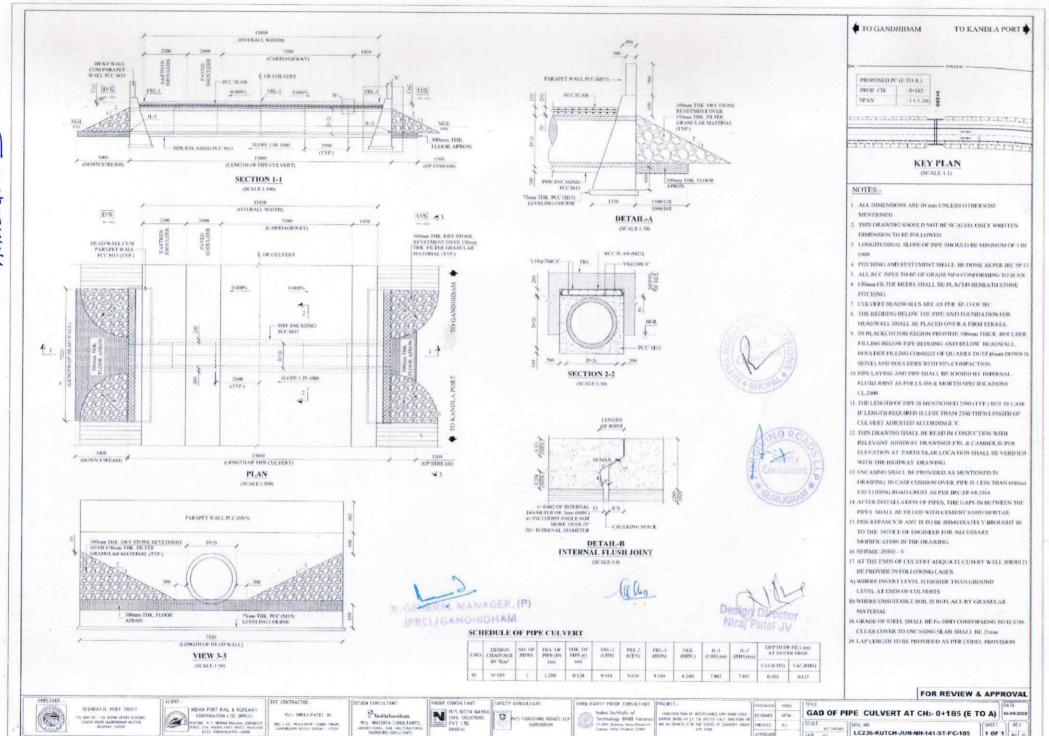


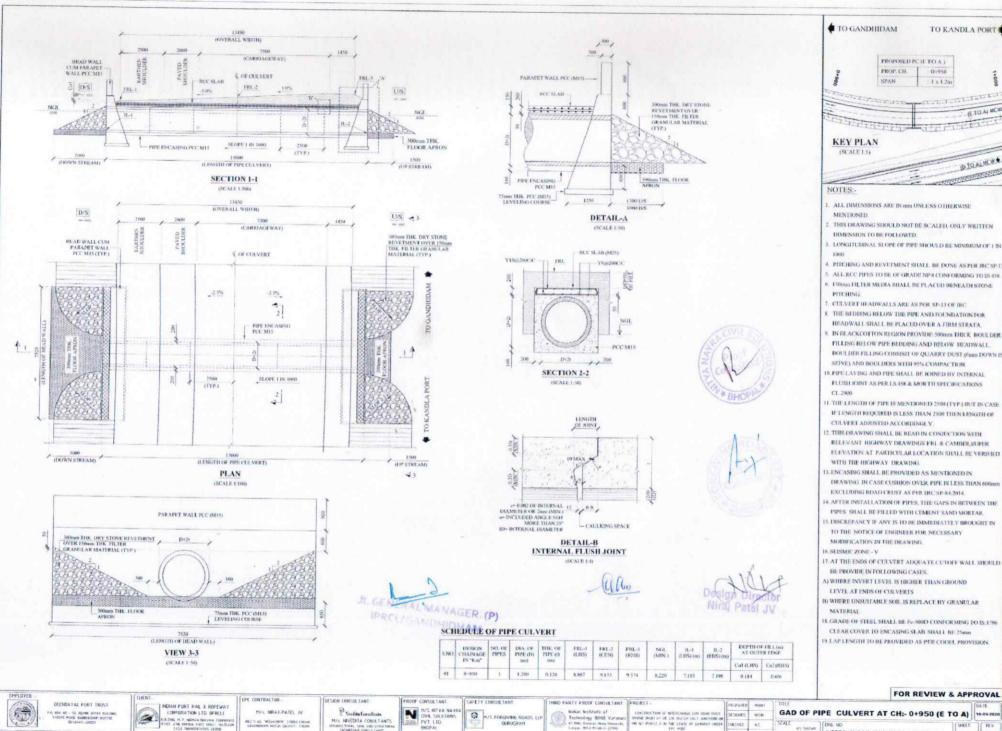
CONSTRUCTION OF INTELLIANCE CHIM SOME OVER DESIGNATED THROUGH AND AT A PRE-LIMINAL THROUGH AND A THROUGH AND THROU

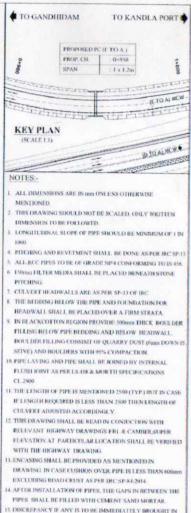
GAD OF PIPE CULVERT AT CH:- 0+997 (A TO E) 18-09-2020 SCALE

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

H sev 1 OF 1 De 0



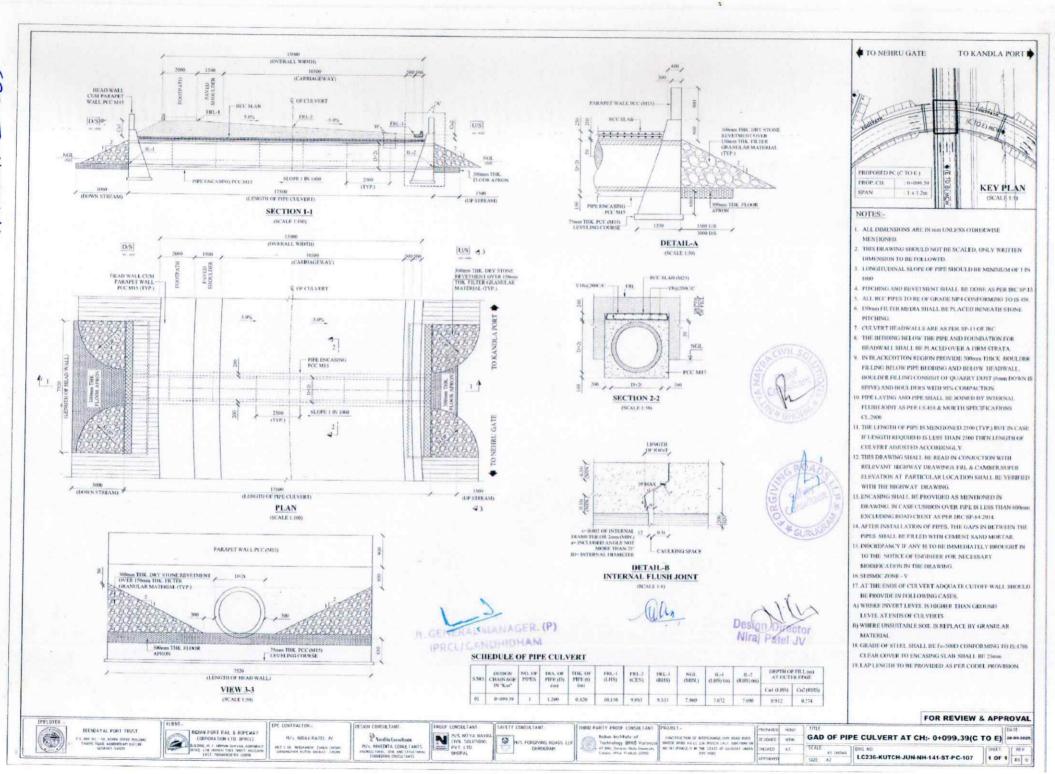


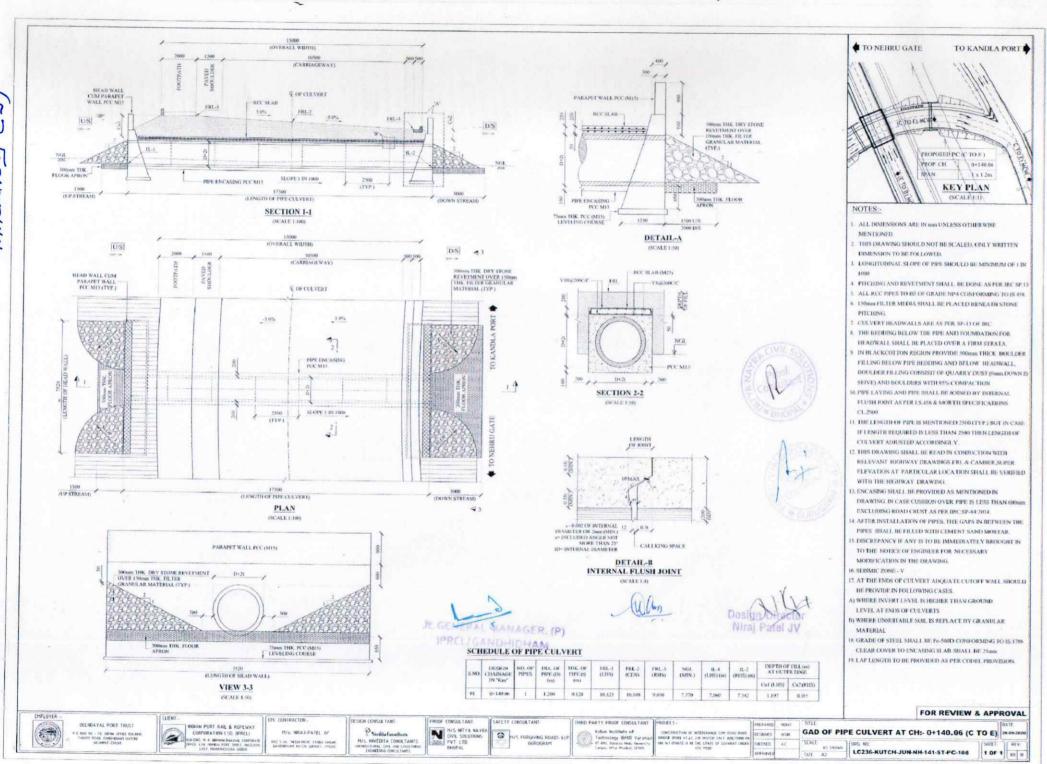


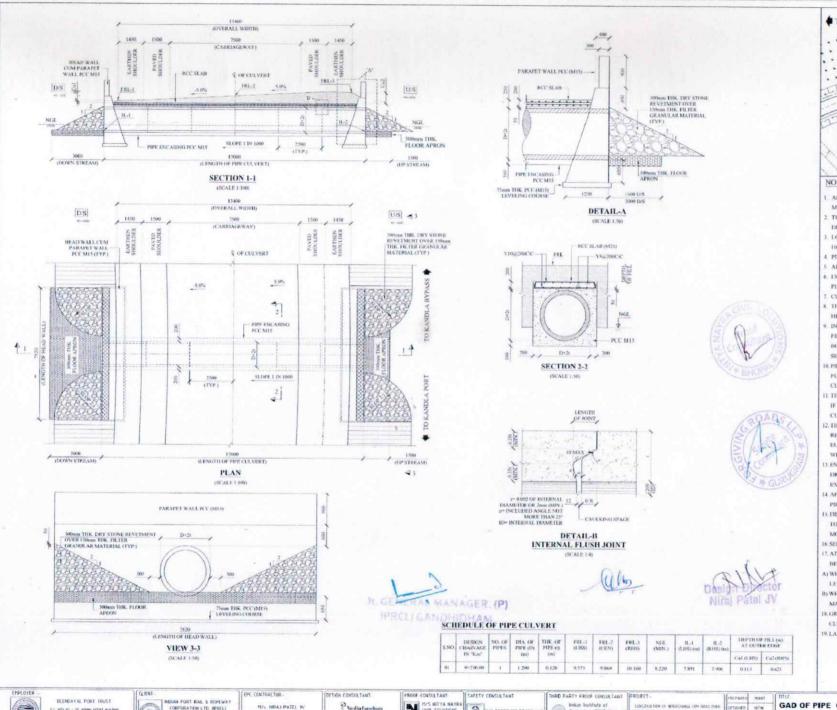
FOR REVIEW & APPROVAL

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.
- A) WHERE INVERT LEVEL 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 18:4786 CLEAR COVER TO ENCASING SLAB SHALL RE 25mm
- 19. LAP LENGTH TO BE PROVIDED AS PER CODEL PROVISION.

FOR REVIEW & APPROVAL





P Sindita Constitutes THE REVEDITA CONDITANTS

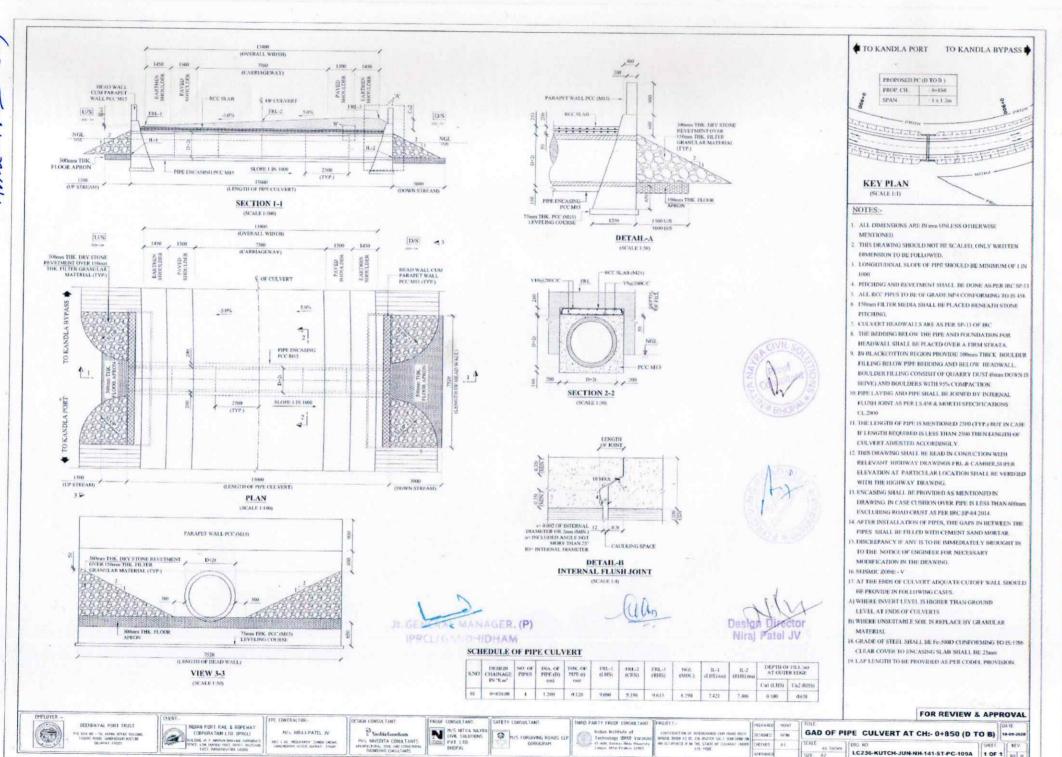
OVE SOLUTION PVT LTD

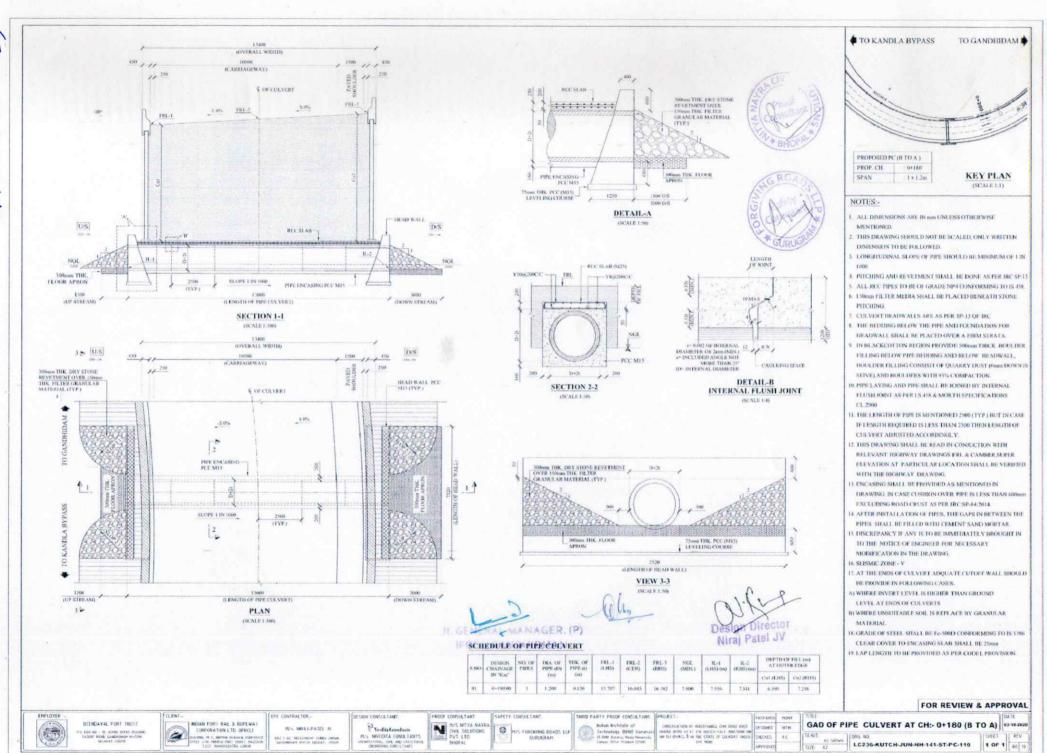
1 GURUCRAN Technology (BHUS Vari

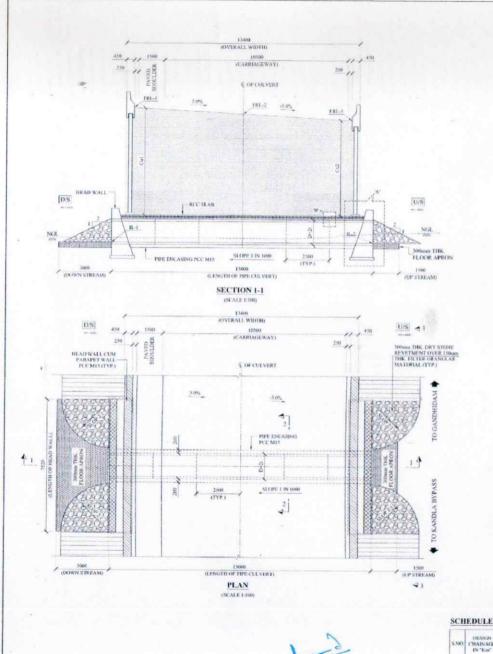
THE SECRET HAS BEEN TAKEN OF THE SECRET OF THE SECRET SECRET.

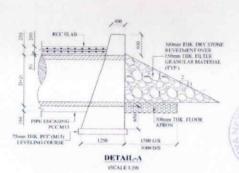
NTN SCALE LC235-KUTCH-JUN-NH-141-ST-PC-109

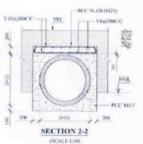
GAD OF PIPE CULVERT AT CH:- 0+230 (D TO B) 18-09-2620

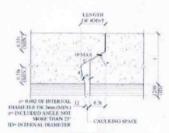












DETAIL-B INTERNAL FLUSH JOINT (SCALE 1:4)

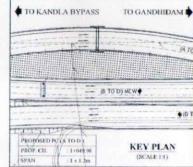






SCHEDULE OF PIPE CULVERT

S.NO.	CHAINAGE	NO. OF	DIA OF PIPE (D)	THE OF PIPE (c)	FRIi. (LHS)	FRL-2 (CEN)	FRL-3 (RHS)	NGL (MIN.)	IL-t (LHS) (m)	fL-2 (RHS) (m)	AT OUTER EDGE	
	EN "Km"		(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
- IN BLACKCOTTON REGION PROVIDE SOmm THICK BOULDER FILLING BELOW PIPE BEDDING AND BELOW HEADWALL. BOULDER FILLING CONSIST OF QUARRY DUST (feare DOWN IS SEIVE) AND BOULDERS WITH 95% COMPACTION.
- 9. PIPE LAYING AND PIPE SHALL BE JOINED BY INTERNAL FLUSH JOINT AS PER LS.458 & MORTH SPECIFICATIONS CL 2900
- 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.
- 12. THIS DRAWING SHALL BE READ IN CONJUCTION WITH RELEVANT HIGHWAY DRAWINGS FRU & CAMBER SEIPER ELEVATION AT PARTICULAR LOCATION SHALL BE VERHIED 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.
- 15. DISCREPANCY IF ANY IS TO BE IMMEDIATELY BROCKSHT 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.
- A) WHERE INVERTILEVEL IS HIGHER THAN GROUND
- LEVEL AT ENDS OF CULVERTS B) WHERE UNSUITABLE SOIL IS REPLACE BY GRANDLAR.
- 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 Consultante MYS NIVERITA CONCETANTS
AMERICANAL CHIEF AND STRUCTURA
ENGRÉEPHIS CANSELEANES

It. GELENI WANAGER. (P) IPRCLIGANDHIDHAM

> PROOF CONSULTANT MVS NITYA NAYRA PVT LTD.

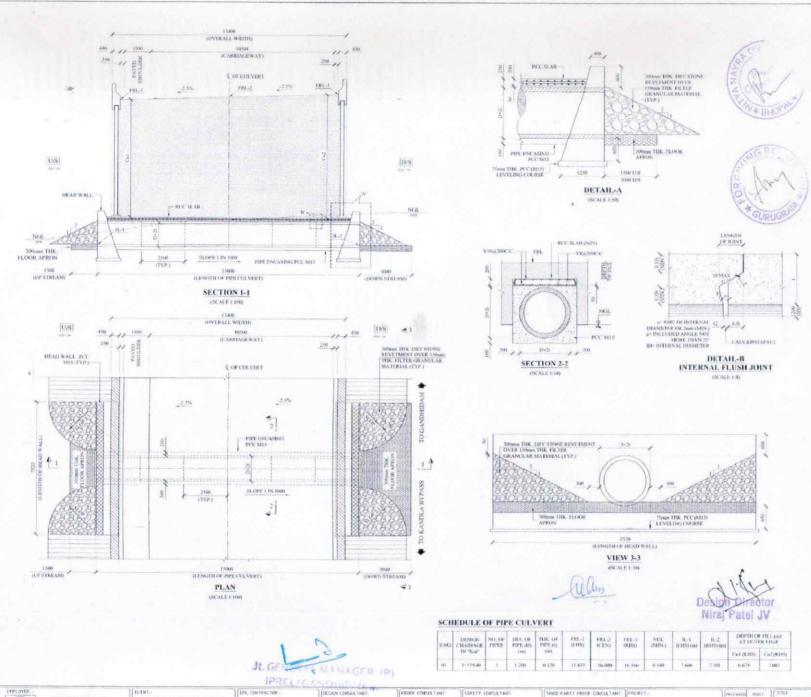
SAFETY CONSERTANT

THIRD PARTY PROOF CONSULTANT (PROJECT Indian limbitude of Technology (BHS)) Varan-ti-690 Daniral High (Soveral Leggs) Uttar Francis (2005)

CHARLETER OF RESERVANCE CON BOAS OVER DECEMBED BEFORE HERE AFFICE THE STATE OF GRANARE MISSES. DECEMBED.

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 INC. 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

0

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

MIN

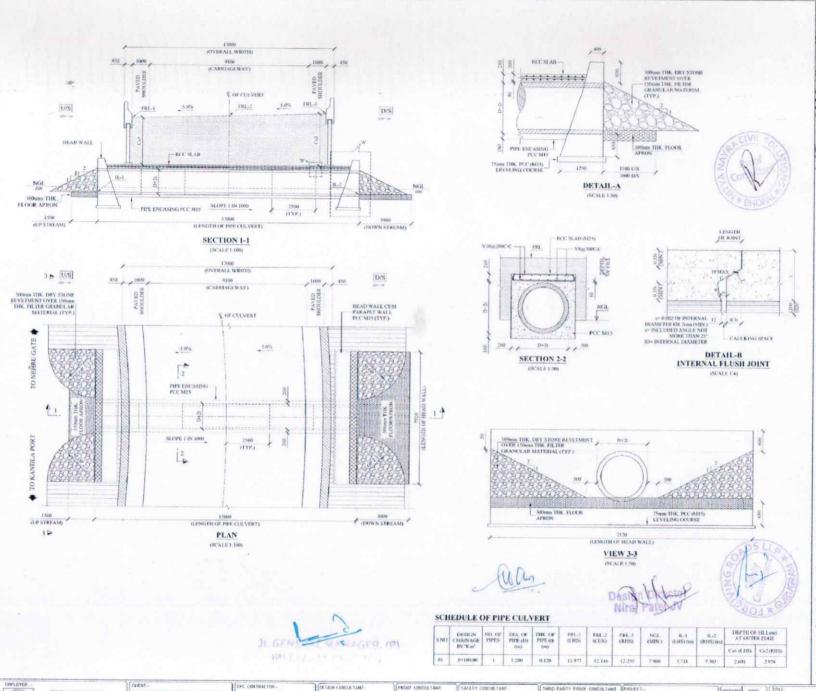
GAD OF PIPE CULVERT AT CH:- 1+579.4 (E TO B) 03-10-2020 LC236-KUTCH-JUN-NH-141-ST-PC-112

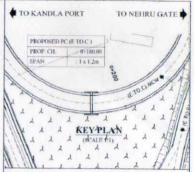
1 OF 1 50 in



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.
- 3. 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.
- 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. PIPELAYING 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



DEENDAYAL FORT TRUST



MOIAN PORT RAL & ROPEWAY CORPORATION LTD. IIPRCLI

MYS. NRALPATEL IV

Siredita Consultrate PL/S. INVEDITA CONDITANTS

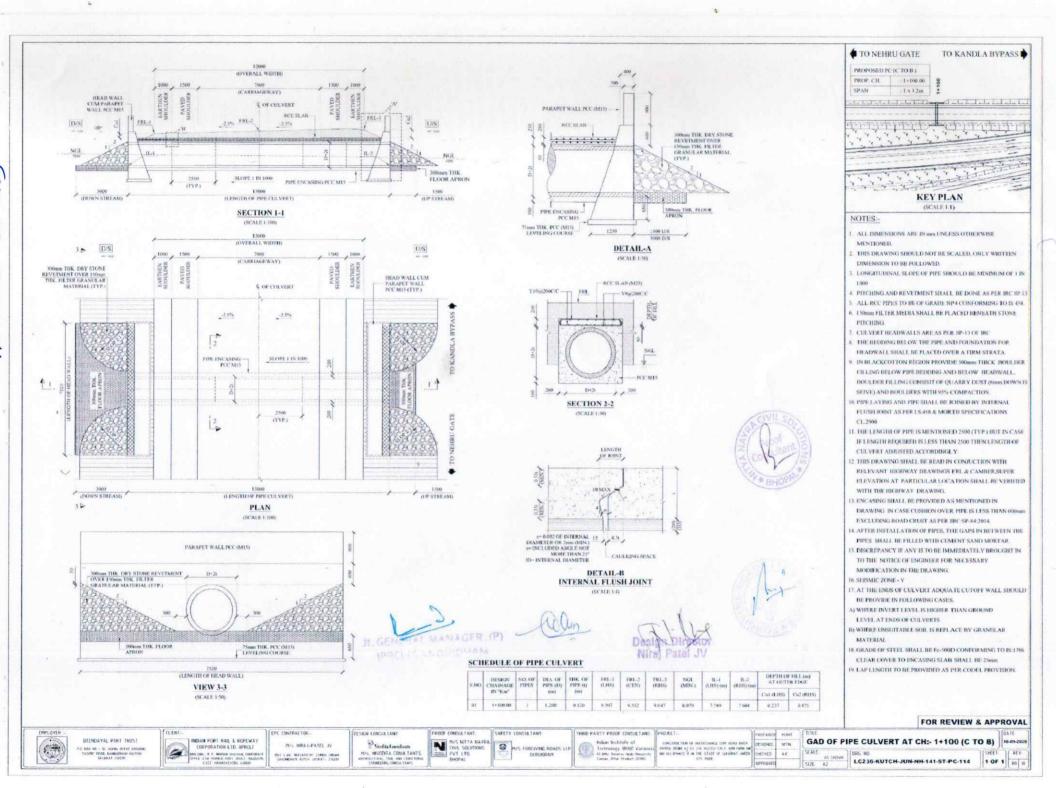
H/S HETYA NAYA CIVIL SOCUTIONS PV1 LTD. BHOPAL

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 SEALE DRS. 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 20 mg/L	
BOD (3 days at 27° C)		
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	eter Permissible	
1.	D. G. Set-500 KVA (stand by)	11		PM SO ₂ NOx	150 mg/Nm ³ 100 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 ₂	150 mg/NM ³ 100 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 16th November-2009.

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient air in µg/M³
1.	Sulphur Dioxide (SO ₂)	Annual	50
1.	Sulphul Dioxide (SO ₂)	24 Hours	80
2.	Nitrogen Dioxide (NO ₂)	Annual	40
2.	Tritiogeri Dioxide (1402)	24 Hours	80
3.	Particulate Matter	Annual	60
٥.	(Size less than 10 µm) OR PM ₁₀	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

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone: (079) 23222425

(079) 23232152

Fax: (079) 23232156

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

(079) 23232152

.Fax: (079) 23232156

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:

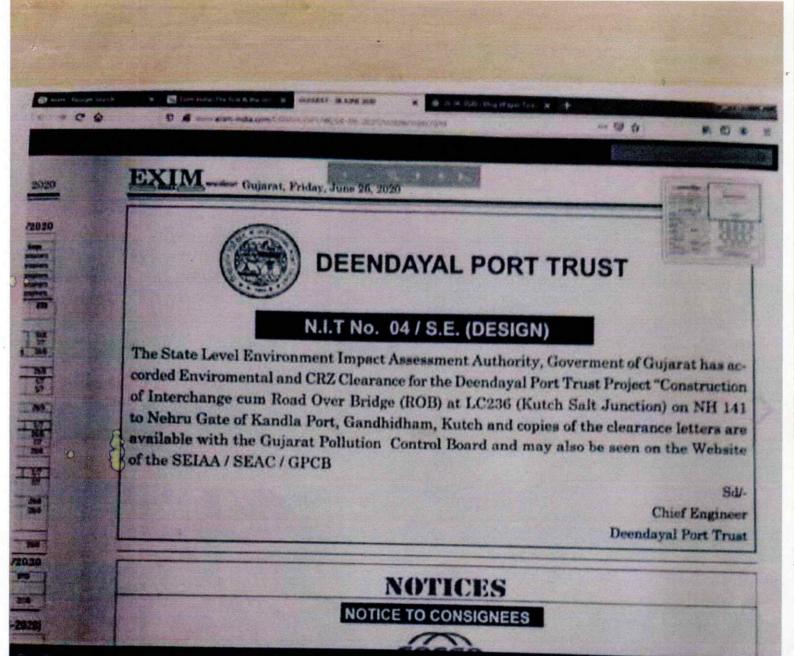
M/s Patel Construction Co,

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

Tal:- Anjar,

Dist: Kutch-370 410.

Annexure VIII (In 2 Pages)



6.7:18

com

नं डाभ

કચેરી.

हेठण.

11 5541

SIHOL

-19-50

ાર્થરત

ભુજ

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 पश्र 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

> old fic

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

4 8.

વારો

રોયલ પ્લોટ્સ એલ.એલ.પી.

Progress Report March - 2024

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 menth) Construction of Interchange cum Road Over Bridge (ROB) at LC-236 (Kutch Salt Junction) on NH-141 in the Port Name **Project Name** State of Gujarat under EPC mode. September' 2024 Rs.284.00 Cr. Period of this report Project Cost (Port's Scope) 3 EPC Mode N.A. Project Cost (by PPP/Captive) Project Mode 4 M/s Niraj-Patel IV, Concessionaire/FPC Gandhidham, Kutch, Gujarat ha: been appointed by M/s IPRCL. i) Project approved by the SFC on 24.04.2017 (SFC Meeting held on 16.01.2017). ii)Ministry vide OM dtd: 26.6.2018 directed to DPT to transfer the project to IPRCL, accordingly Board of Deendayal Port vide R. No. 64, dtd: 07/08/2018 has transferred the project to IPRCL, Mumbai IPRCL on Ministry's Approval direct cost-plus basis. Shri Srinivas Rao, Dy Chief Engineer, Deendayal Port Authority. Port's Nodal officer for project NA Completion Date of RFQ N.A. 24.07.2019 Start Date of RFQ 8 Completion Date of RFP 02.11.2018 23.03.2020 Start Date of RFP Date of Signing of Concession 25.02.2020 01.10.2020 LOI Date/LOA Date 10 Start Date of Construction 23.03.2020. Award Date of Concession/EPC 32 Months 11 Implementation time (as per DPR) 29.05.2023 17 Target COD date NA Financial Progress N.A. **Physical Progress** (Port's Scope) (Port's Scope) **Cumulative Project Progress** 98% 13 Financial Progress 100% Physical Progress achieved till date (PPP/captive/EPC's Scope) (PPP/captive/EPC's Scope) N.A. Shortfall in Financial N.A Shortfall in Physical Progress NA Progress (Port's Scope) (Port's Scope) N.A. NA Delay in Overall Project, if any Shortfall in Financial N.A. Shortfall in Physical Progress (Provide updated Annexure-A and Progress (PPP/captive/EPC's N.A. (PPP/captive/EPC's Scope) N.A. Annexure-B with this report) Scope) NA **Financial Progress** N.A. **Physical Progress** (Port's Scope) Project Progress achieved in (Port's Scope) **Financial Progress** Physical Progress Last Month (PPP/captive/EPC's Scope) (PPP/captive/EPC's Scope) Nil Nil 2 3 Main Accomplishments in the 4 Nil Last Month (Port's Scope) NII 5 Construction of ROB at LC-236 has been Main Accomplishments in the Completed and Maintenance work is in Progress. 17 Last Month (PPP/captive/EPC's Scope) Scope Change, if any 18 NA Schedule Change, if any NA Cost Change, if any N.A. Issues/impediments, if any N.A. Issue pending, with any central 22 N.A. Govt ministry, causing delay Number of Safe Man-hours N.A 23 Safety Performance Near Misses N.A. Lost Time Incidents ΝΔ First Aid Cases N.A. Number of Fatalities N.A. Direct Employment (Port's N.A. Direct Employment (Port's N.A. **Employment Details** Scope) Direct Employment N.A. Direct Employment N.A. (PPP/captive/EPC's Scope) (PPP/captive/EPC's Scope)

> Page 1 of 4 5.10.2024

Addi. GENERAL MANAGER. (P) IPRCL/GANDHIDHAM

This Report Prepared by	Shri Srinivas Rao, Dy Chief Engineer, Deendayal Port Authority.	
	2 Chief Engineer, knhdivision@amaill.com	
This Report Reviewed by	Shri Srinivas Rao Dy Chiej Engineer, Republishing	

(S. Revanasiddappa)

Addl. General Manager(P)

IPRCL/Gandhidham.

Addi. GENERAL 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	Maintenance work is in Progress.

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'

3.10.2024

Addi. GENERAL MANAGER. (P)
IPRCL/GANDHIDHAM

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
	Project Milestone I (10%)	31.03.2021	31.01.2021	N.A.
October 2020 to March 2021				
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	Maintenance work is in Progress.

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'

Addi. GENERAL MANAGER. (P)
IPRCL/GANDHIDHAM