

**Half Yearly Compliance Report  
2025  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>		Gujarat Pipavav Port Limited	
<b>Name of Entity / Corporate Office</b>		Sanjay Singh	
<b>Village(s)</b>		Rampara No-2	
<b>District</b>		AMRELI	
<b>Proposal No.</b>	IA/GJ/INFRA1/429815/2023	<b>Category</b>	INFRA-1
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	Rajula
<b>State</b>	GUJARAT	<b>Entity's PAN</b>	*****6975B
<b>MoEF File No.</b>	11-91/2009-IA.III(pt.)	<b>Entity name as per PAN</b>	GUJARAT PIPAVAV PORT LIMITED

**Compliance Reporting Details**

**Reporting Year** 2025

**Remarks (if any)**

Dear Sir, Here we are submitting our EC and CRZ Clearance Half Yearly Report ( Oct-24 to Mar-25) along with CSR and Environmental Monitoring Report.  
Regards, Vishal Barve

**Reporting Period** 01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** Sanjay Singh

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	590	590
Total	590	590

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Roll On Roll Off ( Vehicle Transportation)	Others:Million Ton/Year	30/06/2029	0	0.164977	0.75
2	Bulk Handling	Million Tons per Annum (MTPA)	30/06/2029	26	2.211	26
3	Liquid Cargo ( LPG, LNG)	Million Tons per Annum (MTPA)	30/06/2029	6	1.469	2.6
4	Container Handling	Others:Million TEUs	30/06/2029	4	0.694899	4

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	The landing jetty for the mooring of ferry crafts which facilitates transport of Shiyalbet Islanders to/from the Shiyalbet Island shall be upgraded with proper connectivity as committed.
<b>PPs Submission:</b> Complied Existing facility upgraded with concrete road facility, up to the jetty. External Paved Road of GPPL is also being used by the Villagers. Roads and landing jetty for Shiyalbet was damaged due to cyclone Tauktae, and the repairing works along with bund protection strengthening and widening of Roads are completed. Maintenance of this road is being taken by APMT Pipavav on regular basis.		Date: 26/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	The coal shall be stored only in designated stock yard with dust control measures viz. wind screen of height at least 2 ft above the of coal stock, made of fabric/HDPE, water sprinkler assignment, green belt of at least three layers of suitable trees and scrubs. Use of creepers should also be exploded in consultation with the Forest Department.
<b>PPs Submission:</b> Complied Due to low volume in coal operation, it has been decided by Management of Port Pipavav to stop discharge operation of coal at jetty till further notice since October 2023. Major Steps Taken-Coal has been stored in dedicated, designed COAL YARD. WATER CURTAIN has been installed on windward side of yard, which blanket the area with very fine water spray. The yard is encircled by three meters high chain link fence with synthetic mesh all around the Coal yard and with three levels tree plantations. Creepers has also planted to make green canopy on the chain link fencing. Mist Canon type fogging system is operational to mitigate the chance of fugitive emissions. Green Belt development in coal yard completed which was damaged by cyclone Taukate. Gap fillings of the plantation carried out on regular basis. Coal water Re-circulation system is in place. RCC roads provided in all over the coal handling area. Stockpile height of the coal is restricted up to 5 meters only. Internal road sweeping is done by mechanized dust sweeping machines and through manual basis on day-to-day operation.		Date: 26/05/2025
3	GREENBELT	The project Proponent shall provide additional plantation in the gaps to develop proper filter screen. (a) The entry and exit points for dumper trucks shall be suitably designed with loop in and loop out arrangement of traffic and a fabric mesh for acting as a filter barrier for coal dust. (b) Bus frequency for Shiyalbet Island residents should be increased during peak hours so as to reduce the waiting time to 10 minutes.

<b>PPs Submission: Being Complied</b> Gap Filling and New Plantation/sapling is being carried out on regular basis. Local villagers are engaged through local agency for green belt development works. GPPL has also established a site-specific nursery to cater the demand of plantation. Loop in and Loop Out Traffic Management is in practice and heavy penalty provision in port for the violation of traffic rules. Bus frequency increased for Shiyalbet Island residents.		Date: 26/05/2025
4	Human Health Environment	The vehicle used for coal transportation to M/s. UltraTech Cement Ltd. at Jaffarabad shall be properly covered to prevent dust pollution.
<b>PPs Submission: Being Complied</b> Due to low volume in coal operation, it has been decided by Management of Port Pipavav to stop discharge operation of coal at jetty till further notice since October 2023. All the raw material transportation out-side of port premises is being done only through covered trucks/dumpers. Dedicated Safe Truck tarpaulin covering area is in place for covering the truck with tarpaulin while keeping the Drivers safe from Working at height risk.		Date: 26/05/2025
5	WASTE MANAGEMENT	16.5 Mcum dredged material out of total 18 Mcum is proposed to be utilized for reclamation purpose in port development. The rest shall be disposed of shore at the site suggested by NIOT.
<b>PPs Submission: Being Complied</b> Noted for Compliance. Capital Dredging 1,11,941 CUM done. Maintenance Dredging undertaken every 1.5 to 2 years (758339.75 CBM of Maintenance dredging carried out since 2012. Expected to be carried out every 1.5 years.		Date: 26/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	PP shall adopt closed conveyer coal transport to the proposed power plants in the vicinity.
<b>PPs Submission: Agreed to Comply</b> Noted for future Compliance. At present no such facility has been set up in the immediate vicinity of the port.		Date: 26/05/2025
7	Statutory compliance	Consent for establishment shall be obtained from Gujarat pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
<b>PPs Submission: Complied</b> CTE order vide its no. PC/CCA-AMR-13(7)/GPCB ID 14808/115982, dated 22/06/2012. Which was valid up to 04/01/2017. The CTE was renewed and amended up to 30 April 2022, vide its order no. PC/CCA-AMR-13(7)/GPCB ID 14808/411575, dated 5/5/2017. The CTE was again renewed and amended up to 04 June 2023, vide its order no. CTE Amendment No. 225015, ID 14808, granted on 21-Oct-2022. EC to CTE application vide no. 312763 dated- 14 May 2024, made to GPCB based on TOR received by MOEFandCC vide no. via Identification No.TO23A3501GJ5814890N with file No. 11-91/2009-IA.III (Pt.) dated: 04.09.2023, Consent to Establish granted subjected to conditions issued vide CTE-73285 dated 11-06-2024.		Date: 26/05/2025
8	Marine/Coastal	The dredge materials contain sand-46%, silt-21% and clay 33 %. However, the proponent shall carry out chemical characteristics before disposal/using it for reclamation to ensure its suitability and prevent any likely impact.
<b>PPs Submission: Complied</b> The study of characterization has been done and submitted to MoEFCC, DoEF, CPCB and GPCB, vide our letter no. APMT/ENV-54/5269, dated 30/01/13. Noted for future compliances as well.		Date: 26/05/2025
9	WATER QUALITY MONITORING AND PRESERVATION	The storm water management shall be put in place before the commencement of the activities. Storm management report with technical details shall be submitted to RO of MoEF&CC within six

		months.	
<b>PPs Submission: Complied</b> The Concept report prepared and submitted to RO of MoEFCC, DoEF, CPCB and GPCB, vide letter no. APMT/ENV-44/3966, dated 23/11/12 and APMT/ENV-54/5269, dated 30/01/13. A pond is constructed with HDPE lining to collect the surface water/rainwater and further its treatment if required, through Reverse Osmosis Plant. Treated water is being utilize for green belt development.		Date:	26/05/2025
10	Marine/Coastal	The proponent shall provide minimum 100 meters buffer from the mangroves. The existing mangroves shall be documented with latest satellite map and shall be submitted to RO, MoEF&CC for compliance verification purpose.	
<b>PPs Submission: Being Complied</b> Complied. 100 meters of buffer from mangroves is maintained. Documentation of existing Mangroves along with provision for maintaining 100 meters buffer are being maintained and report submitted to MoEFCC, DoEF, and GPCB, vide letter no. APMT/ENV-54/5269, dated 30/01/13. As per EC 2015 and MoEFCC officials visit- GPPL port has maintained 85 acre of mangroves belt in the port area against the requirement of 60 acre as per EC 2007. In addition to this, 500 Ha and 100 Ha Mangroves plantation has been carried out at Surat and Bharuch area with the help of Gujarat Ecological Commission. Some patches of Mangroves within port area were degraded during cyclone. GPPL awarded a contract to Gujarat Institute of desert Ecology-Kutch, for the finding the causes of Mangroves degradation and way forward for its restoration. Report submitted to regional office of GPCB and GPPL is working on the recommendations given in the report. Vendor appointed for the restoration of the Mangroves and the activities started at the site as per GIDE Kutch recommendations. Cutting of degraded Mangroves and water flow arrangements made, replantation done in small area to observe and later full fledge plantation of Mangroves will be done. Protection Measures such as restricted entry regular surveillance and watch on inflow and outflow of water have resulted in overall growth of mangroves within this area.		Date:	26/05/2025
11	Statutory compliance	Requisite clearance including clearance from Petroleum and explosives Safety organization (PESO) formerly Explosive Department, Nagpur shall be obtained for establishment tank farms. All relevant provisions of MSIHC Rules 1989 shall be complied.	
<b>PPs Submission: Complied</b> PESO License (for Fuel Station) vide no. P/WC/GJ/14/5601(P287104) is valid up to 31-12-2025. PESO permissions vide no. G-22 (47) 162, dated; 10-April-2012 for Commissioning of upgraded Sea water Based Firefighting System for handling LPG, POL and Chemicals on bulk liquid jetty at Port Pipavav. PESO permissions vide no. G-22 (47) 162, dated; 29-Nov-2018 for Commissioning of Butadiene handling at bulk jetty no. 5 of Port Pipavav.		Date:	26/05/2025
12	GREENBELT	Green belt of not less than 33 % shall be developed and maintained all along the boundary.	
<b>PPs Submission: Being Complied</b> Total 2,50,000 plantation has been done over an area of 250 acre, with survival rate of more than 70 percent. Plantation is being done on phased manner. Approx. 20 percent plantation damage due to cyclone and now it is in regeneration process. Total area of green belt after Cyclone is approx 200 Acre with total survival plant of approx 2,10,000. Now, we have taken activities for mass planation within available space in port area along with replantation.		Date:	26/05/2025
13	AIR QUALITY MONITORING AND PRESERVATION	The dry cargo shall be unloaded into hopper and from hopper it will be taken through closed conveyor system to the storage yards.	
<b>PPs Submission: Being Complied</b> Current closed conveyer is under structural integrity review and during the cyclone conveyor system has also suffered damaged and cannot be made operational till such time. It has been decided by Management of Port Pipavav to stop discharge operation of coal at jetty till further notice.		Date:	26/05/2025



14	AIR QUALITY MONITORING AND PRESERVATION	Mitigation plan for handling the dusty cargo/around storage yards as per presentation may be stipulated.
<b>PPs Submission:</b> Being Complied An Environmental Steering Committee is formed at site to monitor and implement the best environmental practices as per mitigation plan/guidelines issued by MoEFCC, CPCB and GPCB. Continuous monitoring and assessment of plan/guidelines is being carried out by the team on regular basis. Mist Canon type fogging system is operational to mitigate the chance of fugitive dust emissions. Internal road sweeping is done by mechanized dust sweeping machines and through manual basis on day-to-day operation.		Date: 26/05/2025
15	WATER QUALITY MONITORING AND PRESERVATION	There shall be no ground water drawl within CRZ area.
<b>PPs Submission:</b> Complied The Port has piped water (Narmada Water) connection by M/s. Gujarat Water Infrastructure Ltd.- Barwala. Withdrawal of ground water within CRZ area of Port is strictly prohibited and there is no ground water withdrawal in port area for any purpose.		Date: 26/05/2025
16	WATER QUALITY MONITORING AND PRESERVATION	Sewage shall be treated, and the treatment facility shall be provided in accordance with the Coastal Regulation Zone notification, 2011. The disposal of treated water shall confirm the regulation of State pollution Control Board.
<b>PPs Submission:</b> Complied A modern technology, MBBR Treatment Plant having capacity of 370 KLD for Residential Colony is installed and operational since June, 2015. Another, 80 KLD capacity mechanized tank STP is installed and operational near 370 KLD STP for Residential Colony. For Port, 50 KLD capacity STP is installed and operational near jetty. Treated water from both the STP is being re-used for green belt development and as sprinkling purpose to reduce fugitive emissions. Sample of STP inlet and Outlet is being analyzed by NABL and MoEFCC approved laboratory and being submitted to the authorities.		Date: 26/05/2025
17	WASTE MANAGEMENT	Solid waste management shall be as per Municipal Solid waste (management and handling) Rules, 2000.
<b>PPs Submission:</b> Complied Three Types of bins (Bio-degradable, Non-biodegradable and hazardous wastes) placed in various locations across the port and in residential township. Solid waste is being segregated from these bins by local Vendors and being disposed of by them. Plastic waste, wooden waste, E-waste, MS Scrap waste and HW are being collected from the site and stored in Hazardous Waste Storage area from there it is being sold out to authorized Recycler/Re-processors. Organic Waste Converter Machine (OWC) is installed at the site for the conversion of Organic Waste into the form of green Manure. An Eco-friendly Initiative. Woodchipper/Mulch Machine has installed at the site to use the green belt waste like branches and stem coming out during maintenance of trees like trimming and all, and it is converted in to woodchipper. Woodchippers will use in green belt development to retain moisture in the soil, prevents soil erosion and will maintain the soil nutrients.		Date: 26/05/2025
18	Marine/Coastal	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.
<b>PPs Submission:</b> Being Complied Noted and agreed.		Date: 26/05/2025
19	PUBLIC HEARING	It shall be ensured that there is no displacement of people houses or fishing activity as a result of the project.

<b>PPs Submission:</b> Complied No Displacement of people due to existing and/or proposed activities.		Date: 26/05/2025
20	Marine/Coastal	No construction works other than those permitted in Coastal Regulation Zone notification shall be carried out in Coastal Regulation Zone area.
<b>PPs Submission:</b> Complied Noted for Compliance.		Date: 26/05/2025
21	Corporate Environmental Responsibility	The project proponent shall set up separate environment management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
<b>PPs Submission:</b> Complied Separate Environment Management Cell is setup with qualified Environment background professional and the cell is headed by Head of HSE, who directly report to Managing Director-Gujarat Pipavav Port Limited.		Date: 26/05/2025
22	Corporate Environmental Responsibility	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.
<b>PPs Submission:</b> Complied Separate Budget allotted for Environmental protection in every financial year under Budget Head HSE.		Date: 26/05/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
<b>PPs Submission:</b> Being Complied Noted for Compliance. All appropriate measures being taken well in advance during Project Construction activities like spray of water to fugitive dust emission, mobile urinals/toile workers, safe drinking water provision etc.		Date: 26/05/2025
2	Statutory compliance	Fully support shall be extended to the officers of this Ministry/Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
<b>PPs Submission:</b> Being Complied Noted and adhered.		Date: 26/05/2025
3	Statutory compliance	A six -monthly monitoring report shall need to be submitted by the project proponent to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.
<b>PPs Submission:</b> Being Complied		Date:

Half Yearly Compliance report is being submitted to PARIVESH 2.0 portal, along with Environmental Parameters Monitoring reports and CSR details as per timeline stipulated by MoEFCC. Last EC compliance report submitted through PARIVESH on 27-Nov-2024 vide compliance no. EC/M/COMPLIANCE/111388488/2024 and submitted in hard copies to the regional office of GPCB.		26/05/2025
4	Statutory compliance	Ministry of Environment & Forest or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary, in the interest of environment and the same shall be complied with.
<b>PPs Submission:</b> Being Complied Noted and agreed.		Date: 26/05/2025
5	Statutory compliance	The ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
<b>PPs Submission:</b> Being Complied Noted and agreed.		Date: 26/05/2025
6	Statutory compliance	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forest.
<b>PPs Submission:</b> Complied Noted and agreed		Date: 26/05/2025
7	Statutory compliance	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
<b>PPs Submission:</b> Complied Existing project is self-financed.		Date: 26/05/2025
8	Statutory compliance	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.
<b>PPs Submission:</b> Complied Complied.		Date: 26/05/2025
9	Statutory compliance	Gujarat pollution control Board shall display a copy of the clearance letter at the Regional Office, district industries Centre and Collector's office/Tehsildar's Office for 30 days.
<b>PPs Submission:</b> Complied Complied.		Date: 26/05/2025
10	Statutory compliance	These stipulations would be enforced among others under the provisions of Water (prevention and control of pollution) Act 1974, the Air (prevention and control of pollution) Act 1981, the Environment (protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA notification, 1994, including the

		amendments and rules made thereafter.
<b>PPs Submission:</b> Complied Noted for Compliance.		Date: 26/05/2025
11	Statutory compliance	All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (protection) Act, 1972 etc. shall be obtained, as applicable by the project proponents from the respective competent authorities.
<b>PPs Submission:</b> Complied PESO License (for Fuel Station) vide no. P/WC/GJ/14/5601(P287104) is valid up to 31-12-2025.		Date: 26/05/2025
12	Statutory compliance	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Gujarat Pollution Control board and may also be seen on the website of the ministry of Environment and Forest at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within 10 days from the date of receipt of clearance letter and a copy of the same should be forwarded to the Regional Office of this ministry at Bhopal.
<b>PPs Submission:</b> Complied Advertisement for EC approval published in two local News Papers, AVADH TIMES-AMRELI (in Gujarati) and FINANACIAL EXPRESS (in English, all edition) on 11 April-2015.		Date: 26/05/2025
13	Statutory compliance	Environment clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.
<b>PPs Submission:</b> Being Complied EC and CRZ Clearance was valid up to 04-June-2022. Now, it is extended up to 03-June-2023 as per MoEFCC notification 18-January 2021 (covid relaxation). Again EC and CRZ clearance validity extended by EAC of MoEFCC up to 04th June 2024 as per MoEFCC guidelines of EC Validity extension. Gujarat Pipavav Port Limited (GPPL) has obtained the ToR from MoEFCC, New Delhi, via Identification No. TO23A3501GJ5814890N with file No. 11-91/2009-IA.III (Pt.) dt: 04.09.2023, for the preparation of the Environmental Impact Assessment report and Environmental Management Plan (EMP). Environmental Impact Assessment and Environmental Management Plan study has been taken up by M/s. Indomer Coastal Hydraulics (P) Ltd. Chennai, Biodiversity Study Report by MS University Baroda, Dredging, Dumping, and Marine Biodiversity Report by the National Institute of Oceanography-Goa, and Coastal Regulation Zone mapping done by the Institute of Remote Sensing (IRS) Chennai.		Date: 26/05/2025
14	Statutory compliance	A copy of the clearance letter shall be sent by the proponent to be concerned Panchayat, Zilla Parishad/municipal Corporation, urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
<b>PPs Submission:</b> Complied <a href="https://www.apmterminals.com/en/pipavav/CSR/environment">https://www.apmterminals.com/en/pipavav/CSR/environment</a>		Date: 26/05/2025
15	Statutory compliance	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on



		their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB
<b>PPs Submission:</b> Complied <a href="https://www.apmterminals.com/en/pipavav/CSR/environment">https://www.apmterminals.com/en/pipavav/CSR/environment</a> Half yearly Compliance report is also being submitted in hard and soft copy to the concerned authorities. Last EC compliance report submitted on 15-Nov-2024 to regional office of MoEFCC, CPCB and GPCB and the same was uploaded on Parivesh Portal.		Date: 26/05/2025
16	Statutory compliance	The environmental statement for each financial year ending 31st March in FORM-V as is mandated to be submitted by the project proponent to the concerned State pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e mail.
<b>PPs Submission:</b> Complied Last Environment Statement Report is submitted in Form-V to the concerned Authorities dated; 20-May-2025. <a href="https://www.apmterminals.com/en/pipavav/CSR/environment">https://www.apmterminals.com/en/pipavav/CSR/environment</a>		Date: 26/05/2025
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		To, Deputy Director General of Forests (C) Ministry of Environment, Forest and Climate Change Integrated Regional Office, Gandhi Nagar, A-Wing-407 and 409, Aranya Bhawan Near CH-3 Circle, Sector 10 A, Gandhinagar-382010, Gujarat Sub: Submission of Six-Monthly Compliance Status of Environmental and CRZ Clearance Report for APM Terminal- Pipavav, Rajula-Gujarat. Ref: 1. Environmental Clearance Letter No.: 10-91/2009-IA.III, dated; 5 June 2012. 2. EC Amendment Vide No. 11-91/2009-IA.III, dated; 18 Feb 2014. 3. EC Amendment Vide No. 11-91/2009-IA.III, dated; 30 March 2015. 4. EC Amendment Vide No. 11-91/2009-IA.III, dated; 02 Sep 2019. 5. EAC Proposal No. IA/GJ/INFRA1/427769/2023, EC and CRZ clearance validity extended up to 4th June 2024. Respected Sir, With reference to the above subject, please find enclosed Six- Monthly (Half Yearly) Environmental Clearance (EC) and CRZ Clearance Compliance Status report for the period of Oct-2024 to Mar-2024 along with Environmental Parameters Report and Corporate Social Responsibility status report. kindly acknowledge the receipt of these reports. Thanking You, Yours faithfully For APM Terminal Pipavav
<b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.		