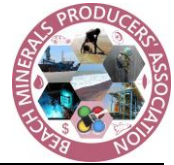




Year	Event
1909	Occurrence of heavy minerals in southern and south-western coast of India discovered by German scientist Dr Schomberg, while searching for monazite containing thorium oxide used in gas mantles.
1910	Dr Schomberg established first plant in Manavaalkurichi, Tamilnadu for separation of Monazite from heavy mineral sands. Second plant established in Chavara, Kerala. The monazite was exported to Europe for extraction of thorium for use in gas mantles.
1914	London Cosmopolitan Mineral Company took over operations of Manavalakurichi and Chavara plants.
1920	Hopkins & Williams, London-based company, started operations of Manavalakurichi and Chavara plants.
1922	In addition to monazite, Ilmenite (Titanium ore) was also produced from the beach sands and the first export started.
1932	F X Pereira & Sons established a private company in Kollam, Kerala for processing of beach minerals.
1940	Travancore Minerals Co Ltd (TMC) , Hopkins & William Travancore Ltd (H&W), and FX Pereira & Sons (FXP) exported 3,00,000 tonnes of ilmenite and the corresponding production of monazite from Chavara and Manavalakurichi plants.
1950	After independence, Atomic Energy Act was enacted and export of monazite was stopped. Indian Rare Earths Limited (IREL) established for processing monazite and producing rare earths.
1956	FX Pereira and Sons private company was taken over by Kerala State Government.
1960	Entry of Private companies in beach minerals mining in Tamil Nadu for Garnet production. Garnet Mining Lease Grant to Thiru.K.Arunachalam for 20 years in K.Ovari Village, Tirunelveli District.
1961	Garnet Mining Lease granted to Thiru.R.Kaliappan, Karikovil for 20 years in K.Pudur Village, Tirunelveli District.
1964	Garnet Mining Lease in Kanyakumari District to Thiru.N.Pauldurai @ Perumal and N. Valliyaperumal in Agastheeswaram and Kanyakumari villages.
1965	IREL takes over all plants in Manavalakurichi and Chavara, as a backward integration, as these plants were not operating regularly due to market



	fluctuation of ilmenite, affecting the monazite feed to the IREL's Always plant.
1972	KMML established from the erstwhile FX Pereira & Sons (Travancore).
1974	Mining Lease granted to Tvl.Kumari Minerals in K.Pudur village (subsequently name changed to VV Mineral).
1985	Mining Lease grant to Beach Mineral Sand Company in Kuttam village.
	IREL established Orissa Sands Complex (OSCOM) in Orissa.
1987	Two mining leases granted to Thiru.T.Manikam in K.Pudur village for Garnet and Ilmenite (Subsequently Ilmenite deleted from the lease).
1990	Garnet Mining lease granted to Thiru.T.Manikkam and VV Mineral in K.Pudur village.
1995	Beach Mineral Producers Association (BMPSA) formed.
1996.	Transworld Garnet India Pvt. Ltd., started operations in Tamil Nadu for production of garnet.
1998	Beach Sand Policy announced permitting entry of wholly Indian-owned companies into beach sand sector for production of all minerals other than monazite.
2000	Subsequent to the Policy on Beach Mineral, number of mining leases granted for beach minerals, like Garnet, Ilmenite Rutile etc., to Tvl. VV Mineral and Beach Mineral Company.
2004	Transworld Garnet India Pvt Ltd (TGI) established mineral sands plant in Andhra Pradesh.
2006	DAE delists Titanium-bearing minerals and Zirconium-bearing minerals from the list of prescribed substances vide SO 61(E) dated 18.1.2006 with effect from 1.1.2007.
2010	TRIMEX Sands establishes mineral sands plant in Andhra Pradesh.
2015	Estimated ilmenite production - Public sector 4 LT; Private sector 8 LT.
2015	MMDR Amendment Act 2015 comes into force.
2016	Atomic Mineral Concession Rules (AMCR) 2016 introduced.
2016	Notification dated July 11 th , 2016 including garnet and sillimanite in Part B, First Schedule.
2017	MCDR Amendment Act 2017 comes into force.