CHAPTER – VI
CHAPTER 6

6.0 CONFLICTING LAND-USE PRACTICES

6.1 GENERAL STATEMENT

The Technical Committee on Co-ordination of Agricultural Statistics, set up in 1948 by the Ministry of Food & Agriculture, has evolved a nine-fold land-use classification of land for uniform application all over India into (i) Forestland, (ii) Land under Non-Agricultural Use, (iii) Unculturable Land, (iv) Grazing Land, (v) Tree Crops, (vi) Culturable Waste, (vii) Current Fallow, (viii) Other Fallow, and (ix) Net Area Sown for uniform application in the entire country (http://www.krishiworld.com/html/land_utilisation2.html). This was discussed in some detail in Section 2.1.

There has been some changes in the land use classification given above on the basis of changing times, and policies formulated and implemented by the successive governments. With the various developmental works taking place in the study area through governmental intervention, the successive governments have taken up assignment of government land comprising of DKT (Darkhaustudar) patta lands to landless individuals and to CJFS (Co-operative Joint Farming Society) lands for taking up agricultural operations. Government has also taken up the task of providing surface water for irrigation by gravity flow/pumping through construction and maintenance of major, medium and minor irrigation projects. The farmers who have yet to be provided with irrigation water are allowed to take up groundwater development through construction of individually-owned large-diameter dug wells, dug-cum-bore wells and bore wells. In addition, other lands have been also assigned for various non-agricultural developmental works such as housing, salt manufacture, mining, industries and coastal aquaculture for varying periods. During such land allocations, it is not uncommon to assign the same land for more than one stakeholder at the same time. It is also not uncommon to assign more land for one category of stakeholders at the expense of other stakeholders. In
many cases, land unfit for agriculture has been alienated to landless poor for growing crops. For example, land occupied by ancient dune sands where no crop could be grown has been often alienated to the landless poor in the study area. While this type of land allocations not benefitting any one, it leads only to corruption and conflicts among the stakeholders. The ideal course as far as the study area would have been to make use of the dune sand areas for developing groundwater available in great abundance and for mining of silica sands rather than using them for other purposes such as land for housing and farm development for poor people. Table 6.1 gives the land use classification of the study area after incorporating the land allocations made for different uses. The conflicts arising out of these actions and modifications have been discussed in this chapter.

From Table 6.1, it is known that the percent land allocated to total geographical area comes to 10.6% in the case of landless poor, 4.6% for Krishnapatnam Port and under industries under Special Economic Zones, 2.1% for aquaculture and 1.9% for mining leases. All this gives clearly the low importance given to the development of mining sector in a region where valuable deposits are known to occur.

6.2 USE OF LAND FOR SALT MANUFACTURE

The natural waters in the study area has a salinity ranging from 100 ppt to less than 100 ppm (or mg/L) Based on salinity, natural waters are broadly classified into brine/hypersaline, saline, brackish and fresh waters. The salinity is over 35 ppt in brine/hypersaline waters, between 35 and 20 ppt in saline waters, between 20 and 2 ppt in brackish waters and less than 2 ppt in fresh water. It is noted that hypersaline waters are best suited for salt manufacture, while saline and brackish waters are best suited in the aquaculture industry for shrimp/fish production.
TABLE 6.1: MANDAL-WISE LAND UTILISATION PARTICULARS IN THE STUDY AREA IN HECTARES
(Note: Arable land is the sum of Net Area Sown, Current Fallows and Other Fallows; Potential Cultivated Land is the sum of Arable Land, Unculturable Land, Grazing Land, Tree Crops and Culturable Waste. Most of the land of 3561 ha alienated to Krishnapatnam Port falls in Muthukur Mandal abutting towards north of the study area.)

<table>
<thead>
<tr>
<th>Mandal</th>
<th>Chillakur</th>
<th>%</th>
<th>Kota</th>
<th>%</th>
<th>Total</th>
<th>%</th>
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<tr>
<td>Total Land (ha)</td>
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<td>100</td>
<td>18,225</td>
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<td>62,562</td>
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<tr>
<td>Land put to Non-Agricultural Use</td>
<td>10,616</td>
<td>23.9</td>
<td>4,979</td>
<td>27.3</td>
<td>15,595</td>
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<tr>
<td>Unculturable Land</td>
<td>5,593</td>
<td>12.6</td>
<td>843</td>
<td>4.6</td>
<td>6,436</td>
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<td>Grazing Land</td>
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<td>8.4</td>
<td>1,631</td>
<td>8.9</td>
<td>5,369</td>
<td>8.6</td>
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<tr>
<td>Tree Crops</td>
<td>124</td>
<td>0.3</td>
<td>49</td>
<td>0.3</td>
<td>173</td>
<td>0.3</td>
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<td>Culturable Waste</td>
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<td>24.1</td>
<td>499</td>
<td>2.7</td>
<td>11,163</td>
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<td>Current Fallows</td>
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<td>7.5</td>
<td>791</td>
<td>4.3</td>
<td>4,102</td>
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<td>Other Fallows</td>
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<td>1,029</td>
<td>5.6</td>
<td>1,513</td>
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<td>Net Area Sown</td>
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<td>7,163</td>
<td>39.3</td>
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<td>Irrigated Land</td>
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<td>8,983</td>
<td>49.3</td>
<td>21,105</td>
<td>33.7</td>
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<td>Potential Cultivated Land</td>
<td>32,241</td>
<td>72.7</td>
<td>12,005</td>
<td>65.9</td>
<td>44,246</td>
<td>70.7</td>
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<td>Land Allotted to Landless Poor</td>
<td>3,697</td>
<td>8.3</td>
<td>2,943</td>
<td>16.1</td>
<td>6,640</td>
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<td>No. of Aquaculture Farms</td>
<td>275</td>
<td></td>
<td>132</td>
<td></td>
<td>407</td>
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<td>Land Allotted to Aquaculture</td>
<td>935</td>
<td>2.1</td>
<td>396</td>
<td>2.2</td>
<td>1,331</td>
<td>2.1</td>
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<tr>
<td>No. of silica sand mines</td>
<td>60</td>
<td></td>
<td>13</td>
<td></td>
<td>73</td>
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<tr>
<td>Land Allotted to Mining</td>
<td>818.92</td>
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<td>374.27</td>
<td>2.1</td>
<td>1,193</td>
<td>1.9</td>
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<tr>
<td>Land Allotted to Major Industries under SEZ</td>
<td>2,347*</td>
<td>5.3</td>
<td>500</td>
<td>2.7</td>
<td>2,847</td>
<td>4.6</td>
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</table>

1Percent to Total Land; 2Percent to Potential Cultivated Land
*Major portion of land shown here is actually located in Muthukur mandal abutting Chillakur mandal towards north.
The Buckingham canal close to the Kandaleru and Swarnamukhi rivers carries seawater to the northern and southern portions of the study area particularly during summer when there was little flow in the rivers. The salinity of these canal waters during summer is often much more than that of seawater. The local people belonging to the Uppara caste were lifting these canal waters to public lands on either side of the canal for harvesting sea salt through solar evaporation. As the coastal sediments of the study area were once occupied by sea or coastal lagoon, groundwater at a few metres depth in many parts of the study area is brine water with salinity much more than that of seawater. Sometimes, it is as high as 100 ppt. This water used to be again bailed out from shallow wells to obtain sea salt. The salt industry in the study area was in its peak since the construction of the Buckingham canal in the 19\textsuperscript{th} century as canal navigation was providing a cheap source of conveyance of salt to urban areas such as Madras and to several rural areas. Once the Buckingham canal became unusable since 1964 owing to poor maintenance, salt industry also collapsed. Salt pans still exist in the study area on a small scale to meet the local demand and for retail sale to nearby places using bullock carts and bicycles.

Figures 6.1 to 6.3 are satellite images showing the distribution of salt pans in the study area. Although there is excellent scope for the revival of seasalt industry in the study area, it is languishing for want of support from the public and private sectors. Fine Salt Works Ltd, an industry established at Alluru near the study area to produce 10 lakh tonnes of free-flow iodised salt has now become sick and closed.

There is some conflict between the use of land for production of sea salt and for aquaculture as both of them require abundant saline water for their survival. Unlike sea salt industry receiving no governmental support, aquaculture industry receives enormous governmental support. With the governmental support received by some aquaculture
FIGURE 6.1: A Google Earth image captured by DigitalGlobe satellite captured on 29 Apr 2000 showing salt pans bordering aquaculture farms in the northwest and northeast portions of the study area.
FIGURE 6.2: A Google Earth image captured by DigitalGlobe satellite captured on 29 Apr 2000 showing the southeast portion of the study area showing the distribution of salt pans
FIGURE 6.3: A Google Earth image of the area shown in Figure 6.2 captured by DigitalGlobe satellite on 23 Jun 2012. The region showing salt pans in the west are now occupied by vegetation, while new salt pans have been developed within aquaculture portions in the east.
industries, these industrialists have taken up salt manufacture as a secondary product. This is discussed in Section 6.3.

6.3 USE OF LAND FOR AQUACULTURE

One major human intervention that took place along the coastal areas of India including the study area relates to the development of coastal aquaculture to increase fish and shrimp production both for domestic consumption and export, rural upliftment, employment and income generation. Coastal aquaculture is a viable means of diversification of fisheries, to increase fish production both for domestic consumption and export, rural upliftment, employment and income generation to a large section of people. The Marine Products Export Development Authority (MPEDA) was constituted in 1972 by the Government of India to increase exports of fisheries of all kinds including shrimp and their marketing. This had led to uncontrolled development of intensive and super-intensive fish/shrimp culture resulting in environmental side effects including destruction of coastal mangroves, degradation of land resources, water-quality deterioration leading to outbreak of diseases, poor productivity and hyper-nitrification. An example of one such aquaculture farm relates to creation of an aquaculture farm in the study area in an area not suitable for that purpose. This farm was damaged as a result of the Sumatra-Andaman earthquake or tsunami that occurred on 26 Dec 2004 along the east coast of India and other places (Figures 3.18 and 3.19).

The Government of India has promulgated Coastal Aquaculture Authority (CAA) Act 2005 with its office located at Chennai in 2006 to formulate guidelines for sustainable aquaculture with support and assistance of MPEDA and other related Institutions. One of the major tasks accomplished by the CAA was the registration of shrimp farms on the recommendations of the State and District Level Committees constituted for the purpose. It is mandatory that all persons carrying on coastal aquaculture shall register their aquaculture
farms with the Coastal Aquaculture Authority. Registration is made for a period of five years, which can be extendable further. The CAA is assisted by a local advisory committee both in the initial registration process of new farms for a period of five years and their extension beyond five years thereafter. One of the conditions imposed the CAA has to observe is to ensure that no aquaculture farm is set up within the Coastal Regulation Zone (CRZ) under the CRZ notification. But, this is not always followed. Tables 6.2 and 6.3 give the list of aquaculture farms registered in Chillakur and Kota mandals in the study area.

Figures 6.1 to 6.5 show satellite images showing aquaculture farms in the study area. Almost all of these farms are located bordering the coast or along the Buckingham canal close to the Kandaluru and Swarnamukhi Rivers.

It is noted from the Figures that in many cases salt pans and aquaculture farms lie close to one another. This is quite understandable as places carrying brine/hypersaline waters with a salinity of more than 35 ppt are best suited for salt manufacture, while places carrying saline and brackish waters are best suited for aquaculture. Because of this reason, places suitable for aquaculture can be close to places suitable for salt manufacture. This is further explained from a study of the historical and recent Google Earth images of the southeast portion of the study shown in Figures 6.2 and 6.3.

Figure 6.2 is a Google Earth image captured on 29 Apr 2000 showing salt pans spread over the area in unorganised sectors with an aquaculture farm just then commissioned along the coast. In Figure 6.3 showing another Google Earth image of the same region captured on 23 Jun 2012, showing well developed salt pans within aquaculture farms under organised sector and disappearance of salt pans in the west once operating under unorganised sector.
### TABLE 6.2: LIST OF AQUACULTURE FARMS REGISTERED IN CHILLAKUR MANDAL IN THE STUDY AREA

(After CAA, 2011)

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Registration No.</th>
<th>Name</th>
<th>Village</th>
<th>WSA (Ha)</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AP-II-2008(4624)</td>
<td>Madava Ramachandra Rao</td>
<td>Ankulapaturu</td>
<td>1.40</td>
<td>9-Feb-09</td>
</tr>
<tr>
<td>2</td>
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<td>Udata Bhudevamma</td>
<td>Ankulapaturu</td>
<td>0.40</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>3</td>
<td>AP-II-2008(4626)</td>
<td>Udata Chandrasekar</td>
<td>Ankulapaturu</td>
<td>0.60</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>4</td>
<td>AP-II-2008(4627)</td>
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<td>Ankulapaturu</td>
<td>0.60</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>5</td>
<td>AP-II-2008(4628)</td>
<td>Yelluri Sivakumar</td>
<td>Ankulapaturu</td>
<td>0.60</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>6</td>
<td>AP-II-2008(4629)</td>
<td>Guggilla Chinna</td>
<td>Ankulapaturu</td>
<td>0.60</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>7</td>
<td>AP-II-2008(4630)</td>
<td>Garimela Rambabu</td>
<td>Ankulapaturu</td>
<td>0.60</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>8</td>
<td>AP-II-2008(4631)</td>
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<td>1.00</td>
<td>2-Sep-09</td>
</tr>
<tr>
<td>9</td>
<td>AP-II-2008(4632)</td>
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</tr>
<tr>
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<tr>
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Note: The Table above gives only the water-spread area (WSA), but not land used for other purposes. As land used for other purposes is not known, the actual land under aquaculture farms is assumed to be twice the water spread area (i.e., 934 ha).
### TABLE 6.3: LIST OF AQUACULTURE FARMS REGISTERED IN KOTA MANDAL IN THE STUDY AREA

*(After Coastal Aquaculture Authority of India, Chennai)*

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<th>Name</th>
<th>Village</th>
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<th>Issue Date</th>
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Note: The Table above gives only the water-spread area (WSA), but not land used for other purposes. As land used for other purposes is not known, the actual land under aquaculture farms is assumed to be twice the water spread area (i.e., 396 ha).
FIGURE 6.4: A Google Earth image of the southeast portion of the study area captured by DigitalGlobe satellite captured on 18 Oct 2009 showing an aquaculture farm west of barrier islands and coastal lagoons
FIGURE 6.5: A Google Earth image of the southeast portion of the study area in the vicinity of Swarnamukhi River and Buckingham canal captured by DigitalGlobe and TerraMetrics satellite captured on 19 Oct 2009 showing aquaculture farms.
6.4 USE OF LAND FOR MINING

The present government policies are such that every possible encouragement is given to develop various sectors such as agriculture, aquaculture and industry, but not mining. For example, with a view to make agriculture sustainable, the Government has been spending enormous amounts towards construction of irrigation projects for making irrigation water available to as much arable land as possible. In order to create irrigation infrastructure, government has been alienating huge land for the construction of reservoirs and canal network. For the construction of the Kandaleru balancing reservoir alone, an area of over 6300 ha with much of it falling under forestland was earmarked. This is more than two times the total area occupied by the mining leases in force in the entire Nellore district. In another bid, the Government has been allotting culturable land to landless poor engaged in cultivation to make them land owners. As cultivation in such lands devoid of irrigation facilities is not economic, the government has taken up construction of irrigation projects at exorbitant cost to create irrigation facilities. In order to encourage coastal aquaculture and create livelihood to the local people, the Coastal Aquaculture Authority of the Central Government has been constituted to liberally allocate land for aquaculture.

In tune with the policy of the Government of Andhra Pradesh to bring rapid industrial development through creation of Special Economic Zones (SEZ), the Government has acquired and has been acquiring huge land for allotment to the Krishnapatnam Port and industries under private sector. In a bid to secure adequate land for allocation, the government has even taken the extreme step of cancelling mining leases where high-quality silica sands could still be economically mined. Some of the aggrieved mine owners had to seek court intervention to continue mining in such lands. Cancellation of mining leases in areas where economically extractable mineral is still available is not a desirable practice. While rules for land allotment for several other purposes are getting simplified, the rules for allotment of land
for mining are getting so complicated year after year that the aspirants had to spend heavily and wait for inordinate time for obtaining clearances from a number of central and state governments departments to finally get grant of mining leases.

It is generally believed that, as minerals are non-renewable, sustainable development demands their mining only sparingly despite higher demand so that they are available for use by the future generations (Chatterjee, 2004). The recent works by several workers including Rajaram et al. (2005) and Sharma (2006) led to the advancement of a new definition of sustainable development, according to which minerals could be exploited to any extent to meet the existing demand as long as they could be mined at an economic and competitive price. If any country decides not to mine minerals in adequate quantities to meet the existing demand, those minerals had to be imported at higher cost leading to increased debt burden to be borne by the future generations. Despite exhaustion of known mineral deposits, the needs of the future generations could still be met by new mineral discoveries through intensified mineral exploration, reduction in the cut-off grade of minerals, mining in remote and offshore areas, recycling metals and minerals under use, and using today’s waste as tomorrow’s resource through advances in science and technology.

The belief that known mineral deposits could be conserved for posterity by simply postponing mining is not generally feasible in view of such mineral-rich lands being subjected to some alternate land-use practice such as construction of irrigation projects, human settlements, industries, or land assignment to landless agricultural workers and thereby making land acquisition for mining an extremely difficult and costly, if not impossible, task at a later date (Rajagopal, 2009). For example, the work of Ramanaiah et al. (2011) revealed that several valuable mineral deposits such as mica, quartz and feldspar occurring in the Nellore mica pegmatites in Andhra Pradesh have become inaccessible for
mining owing to the construction of the Kandaleru balancing reservoir spread over an area of 63 sq km and conversion of 635 sq km of mineral-rich areas into irrigated land through canal networks drawn from the Kandaleru-Poondi canal supplying drinking water to Chennai. As the occurrence of mineral deposits is location specific and cannot be shifted to any other place, Chandamouli et al. (2012) have made out a case to bring out a comprehensive legislation to ban mineral-rich areas from being used for some other purpose until the economic minerals in them are fully exploited and the land returned back in an environmentally fit condition for putting it to another use.

The above observations made on the rest of India are equally true with the study area, where high-quality silica sand deposits useful in foundry and moulding occur in large quantities. With the recent decision taken to acquire land for creating infrastructure to the recently-modernised Krishnapatnam Port and creation of a port-based multipurpose Special Economic Zone (SEZ) for the establishment of industries under private sector, the government has even taken the extreme step of cancelling mining leases where high-quality silica sands could still be economically mined. Finding it difficult to acquire so much land, the Government ordered for the cancellation of all mining leases of silica sand spread over an area of 1352 ha in Chillakur and Kota mandals. This decision was contrary to several earlier orders of the Industries and Commerce Department banning allotment of lands having mineral wealth for any purpose other than mining. Both the Federation of Indian Mineral Industries (FIMI) and the Institute of Indian Foundrymen opposed vehemently for cancellation of mining leases in lands having valuable silica sand deposits. Finally, with the intervention of courts, the matter has subsided.

There has been conflict between the local farmers and the silica sand mine owners with the former opposing mining on the ground that mining depletes water required for
irrigation on which they have riparian rights. The supporters of mining on the other hand argue that it is not justified to prevent silica sand of high economic value that has spread over an area of 4250 ha just to irrigate 1698 ha of cultivated land. If mining is prevented, the industries using this silica sand have to import it at high cost involving use of foreign exchange. The author’s studies have indicated that the quantum of groundwater available in the dune sands is much more than the water required for irrigation of the existing command area. It is further noted that the area leased out for silica sand mining is just 1452 ha, which accounts for just 34% of the total surface area of 4250 ha occupied by the dunes. Apart from this, there should not be now conflict between the farmers and mine owners owing to the State Government earmarking a share in the Kandaleru-Poondi canal meant for supplying Krishna river water to convey drinking water to the city of Chennai do the irrigated lands in the study area.

With the development of the minor port at Krishnapatnam as a modern, deep water and high productivity private port, need arose for the government to create a port-based multipurpose Special Economic Zone (SEZ) in an area of 5000 ha close to the port. Finding it difficult to acquire so much land, the Government ordered for the cancellation of all mining leases of silica sand spread over an area of 1352 ha in Chillakur and Kota mandals. This decision was contrary to several earlier orders of the Industries and Commerce Department banning allotment of lands having mineral wealth for any purpose other than mining. Both the Federation of Indian Mineral Industries (FIMI) and the Institute of Indian Foundrymen opposed vehemently for cancellation of mining leases in lands having valuable silica sand deposits. Finally, with the intervention of courts, the matter has subsided. Our work has revealed the existence of large contiguous areas of land both in Chillakur and Kota mandals, which are devoid of any mineral deposits and also do not support any vegetation now or in future. Such lands could be acquired for allotment to SEZ without the need to cancel mining
leases of silica sand still carrying valuable deposits.

6.5 KRISHNAPATNAM PORT

Reforming public sector through public-private-partnership in Andhra Pradesh, Krishnapatnam port, a minor port abutting the study area, was the first port to be awarded to the private sector. Through a competitive bidding process, Krishnapatnam Port Company Limited (KPCL), promoted by the NATCO group, was selected in 1997 to develop an all-weather port on a Build-Operate-Share-Transfer (BOST) model concession basis for 50 years. This is the first Greenfield Port privatized by the State Government to develop a minor port into a Deep Water Port as per a Master Plan in three phases (Figure 6.6). For very long time, there was no progress in taking up the various port works.

Only after a financial advisor-cum-lead arranger was chosen in April 2003, two jetties were constructed in Aug 2003 to meet the demands of customers such as the National Mineral Development Corporation (NMDC). The Kandaleru River mouth was dredged and modified as Krishnapatnam Port with berths for ships constructed on the left bank of the estuary (Figures 3.12, 3.13 and 3.14). To prevent accretion of sediment reducing the depth of the estuary and closure to the river mouth with barrier spits, breakwaters (or groins) were constructed to extend into the Bay of Bengal with the right groin extending to a distance of 1500 m and left groin to 750 m. Once all the facilities mentioned in the Master Plan are created (Figure 6.6), the port becomes the largest port in India and one of the largest ports in the world. It is one of the very few ports in the world with 18 m draft handling giant ships with load capacities of 1,50,000 tonnes (Figure 6.7 and 6.8). Its numerous strengths include its large area, strategic location, good weather and new generation world class port facilities such as superior connectivity, good weather for round the clock operation throughout the year and infrastructure and logistic set up of international calibre, large container terminal facility,
FIGURE 66: Master Plan of the Krishnapatnam Port. Once all these facilities are created, the port becomes the largest port in India and one of the largest ports in the world.
multiple cargo handling facilities, dedicated coal storage yard to become the coal hub of India and large liquid cargo facility (Figures 6.7, 6.8, 6.9, 6.10, 6.11 and 6.12).

This Port has a stacking capacity of around 0.28 million sq m, handling capacity of 10 million tonnes, many more berths under construction with facilities to receive vessels with capacity of over 1.20 lakh dwt. The total cargo exported in million metric tonnes was 7.49 in 2008-09, 11.12 in 2009-10 and 5.80 in 2010-11, while total cargo imported in million metric tonnes was 0.72 in 2008-09, 5.01 in 2009-10 and 9.70 in 2010-11. The port is being connected with Chennai-Kolkata railway line by a dedicated 19-km railway line and with the Chennai-Kolkata National Highway by a dedicated 26-km four-lane road (Figures 1.11, 1.12, 1.13 and 1.14). Rail Vikas Nigam Ltd (RVNL) has recently finalised its plans for the Krishnapatnam port rail connectivity project, which envisages construction of a 114-kilometre railway link between Krishnapatnam port and Obulavariipalle near Mangampet barytes mines. Being just about 24 km from Nellore and 22 km from Gudur, it would give good boost to the industries in and around the study area. Land to an extent of around 3561 ha lying both in Muthukur and Chillakur mandals is alienated to the port.

The rapid pace at which the port has been developing can be known by comparing the Google Earth image in Figures 6.13 and 6.14. While Figure 6.13 captured on 23 Jun 2012 shows the well-developed south breakwater, bulk-cargo transit area, break-bulk cargo and container cargo in the southeast portion of the Krishnapatnam Port, Figure 6.14 captured just seven years shows practically no development. While making developmental work, the port authorities have also not neglected development of greenbelt meant for ecological protection. An examination of these satellite images indicates that in 2005, there was practically no greenery at all in the region, while in 2012 the region is marked with well-developed mangrove vegetation.
FIGURE 6.7: A modern cargo ship at Krishnapatnam Port from which a record of 106,171 tonnes of steam coal was discharged in 24 hours on 23 Jul 2011

FIGURE 6.8: Another ship at the Krishnapatnam Port
FIGURE 6.9: A view of the container terminal facility of the Krishnapatnam Port

FIGURE 6.10: A view of the Krishnapatnam Port showing multiple cargo handling facilities
FIGURE 6.11: A view of the dedicated coal storage yard in the Krishnapatnam Port, which has become the coal hub of India

FIGURE 6.12: A view of the liquid cargo facility of the Krishnapatnam Port
FIGURE 6.13: A Google Earth image captured by DigitalGlobe satellite on 23 Jun 2012 showing the south breakwater, southeast portion of the Krishnapatnam Port showing bulk-cargo transit area, break-bulk cargo and container cargo
FIGURE 6.14: A Google Earth image captured by DigitalGlobe and Cnes/SPOT satellites on 1 Apr 2005, showing the same area as in Figure 6.13 devoid of any developmental activities.
6.6 USE OF LAND FOR INDUSTRIES

It is noted that most silica-sand mined is marketed in its raw form. The only exception is Mangalore Minerals Pvt. Ltd, which mines silica sand in its mine with a lease area of 105.22 ha in Siddavaram village in Kota mandal and treat it in its graded and washed silica sand unit having a capacity of 0.5 million tonnes per annum at Momidi in Chillakur mandal to market only value-added silica sand. It is worthwhile if the other mine owners also emulate the example of Mangalore Minerals Pvt. Ltd, so that both mine owners and the government get maximum return from the silica sand mined. Figures 6.15 and 6.16 show the views of the plant.

SBQ Steel Factory is one another factory which developed as a full-fledged industry with a capacity of 0.5 million tonnes per annum steel integrated plant at Chintavaram near the port even before the completion of the Krishnapatnam Port. It however now makes use of the port facilities to enhance its capabilities (Figure 6.17).

Table 6.4 gives the list of power projects coming up in the vicinity of Krishnapatnam Port. To make these projects operational, the port has to import 40 million tonnes of coal per annum. In addition, the existing power plants in the hinterland of the port require 38 million tonnes of coal. All this has to be brought from the coal fields in Orissa and from Australia, Indonesia and Mozambique. Cement and steel plants in the hinterland also depend on coal imported at the port.

Other industrial developments near the port include a Leather park and IFFCO Kisan fertiliser. Wook Silicon Alloys (P) Limited of Mumbai has up a factory of Ferro Alloy manufacturing unit of 5x9 MVA Submerged Electric Arc Furnace to manufacture Ferro-Silicon, Silicon-Manganese, and Silicon metal alloys at Unuguntapallam in Kota Mandal.
FIGURE 6.15: A view of the Mangalore Minerals Pvt. Ltd at Momidi in Chillakur mandal where value-added washed and graded silica sand is being processed from the company’s captive silica sand mines at Siddavaram in Kota mandal of the study area

FIGURE 6.16: Another view of the same factory where processed sand is being dispatched. The capacity of this plant is 0.5 million tonnes per annum
FIGURE 6.17: A Google Earth image captured by DigitalGlobe satellite on 26 May 2010 showing SBQ Steel Factory developed as a full-fledged industry even before the completion of construction of the Krishnapatnam Port
### TABLE 6.4: POWER PLANTS COMING UP NEAR KRISHNAPATNAM PORT

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Plants</th>
<th>Capacity (MW)</th>
<th>Expected Year of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Simhapuri Power</td>
<td>1,920</td>
<td>2012-13</td>
</tr>
<tr>
<td>2</td>
<td>AP Genco</td>
<td>1,600</td>
<td>2013-14</td>
</tr>
<tr>
<td>3</td>
<td>Meenakshi Group</td>
<td>1,000</td>
<td>2014-15</td>
</tr>
<tr>
<td>4</td>
<td>Thermal Power Tech</td>
<td>1,320</td>
<td>2014-15</td>
</tr>
<tr>
<td>5</td>
<td>NCC Power</td>
<td>1,320</td>
<td>2015-16</td>
</tr>
<tr>
<td>6</td>
<td>Kineta Power</td>
<td>1,980</td>
<td>2015-16</td>
</tr>
<tr>
<td>7</td>
<td>Krishnapatnam Power</td>
<td>1,320</td>
<td>2016-17</td>
</tr>
</tbody>
</table>
The rapid pace at which industries are being set up in the study area can be appreciated from the Google Earth satellite images shown in Figures 6.18 and 6.19 on the region in the southwest portion of Thamminapatnam captured on 23 Jun 2012 and 1 Apr 2005. While Figure 6.18 shows a highly-developed Power Plant Thermal Data Processing Project around Thamminapatnam, the Figure 6.19 captured some seven years ago shows practically no development.

The authors’ work has indicated the existence of large contiguous areas in the vicinity of mines, which are devoid of silica sand deposits and also do not support any vegetation now or in future. Such lands could be best acquired for allotment to SEZ without the need to cancel any of the mining leases of silica sand.

6.7 WATER FOR INDUSTRIAL USE

As it is generally believed that the study area and the adjoining coastal area is devoid of fresh groundwater, most industries and Krishnapatnam Port in the vicinity have installed and planning to install very costly desalination plants to obtain fresh water from seawater involving high capital and recurring expenditure. For example, Krishnapatnam Port has been obtaining its entire water requirements through a 4-MLD Desalination Plant erected at Thamminapatnam with plans to increase the capacity of desalination to 20 MLD besides obtaining 1 MLD of surface water from Muthukur Tank fed by Kandaleru-Poondi canal. The present study has however indicated that the ancient dune sands in the study area has enormous fresh groundwater with a TDS of less than 100 ppm and this could be developed through high-yielding wells of special design. In addition, it is observed that groundwater in several coastal sediments including silica sand deposits carry shallow groundwater floating on seawater. Water from such formations could be obtained through construction of radial collector wells just as cream that settles on the top of milk gets collected by skimming. It is
also observed that the reserved forests in the study area comprising an area of over 2250 ha has a very low Forest Canopy Density (FCD) of 3.4% because of being occupied by silica sand deposits. It should be possible to develop groundwater in the forestland through construction of high-yielding wells of special design including radial collector wells in very large quantities. According to the A.P. State Ground Water Department, the mean balance groundwater awaiting development can be taken as 3360 ha-m, and if this entire surplus water is made available for industrial use, it has the potential to supply 92 million litres a day (MLD). There is thus enormous scope for groundwater exploitation to meet the growing needs of the people for drinking, irrigation and industrial use.
FIGURE 6.18: A Google Earth image captured by DigitalGlobe satellite on 23 Jun 2012 showing a well-developed factory southwest of Thamminapatnam as a consequence of the Krishnapatnam Port
FIGURE 6.19: A Google Earth image captured by DigitalGlobe and Cnes/SPOT satellites on 1 Apr 2005, showing the same area as in Figure 6.18 devoid of any developmental activities.