PCMC GRIHA MODEL
A Green Building Initiative of Pimpri Chinchwad Municipal Corporation

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PCMC STATUS OF AFFAIRS
The degree of pollution in the rivers, specifically Mula and Pawana, is significantly high. The high level of pollution is due to the disposal of untreated domestic sewage and industrial effluent flowing in from various locations. Also dumping of waste adds to this pollution.
Water Availability and Distribution

• Low pressure in supply is observed specifically in areas where the distribution network is old or where the areas are farthest from the servicing ESR. Also, most of the newly added areas where the distribution network is yet to be completely provided, are facing the problem of low pressure in supply.

• The existing system with its head works at Ravet was designed for 228 MLD to cater to the population of 2011.

• Identification of sources other than Pawana river to cater to the demand beyond 2031
PUNE: In a bid to ensure sufficient water for the current summer season, the Pimpri- Chinchwad Municipal Corporation has decided to borrow water from the Maharashtra Industrial Development Corporation, if the need arises. The civic body has also decided to prepare a special plan to ensure water supply in the area.
At the root of the agitation that led to police firing on farmers in Pune district on Tuesday, leaving three of the agitators dead, is a pipeline project that aims to enhance water supply to Pimpri - Chinchwad but which, the farmers fear, will rob them of water they use for irrigation.
Solid Waste

- PCMC has a dumping site at Moshi Village at a distance of 15 km. on an area of 25 hectares.

- No scientific method of disposal is followed and the waste is dumped on open ground. The present disposal site does not cater to future needs; there is an immediate requirement for the acquisition of a new disposal site for engineered landfill having all basic infrastructure.

- About 157 acres of land would be required to cater to the needs of the population of year 2031.
Section-wise Expenditure

### Table 32. Section-wise establishment expenditure

<table>
<thead>
<tr>
<th>Section/Department</th>
<th>2000-01</th>
<th>2001-02</th>
<th>2002-03</th>
<th>2003-04</th>
<th>2004-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Admin &amp; Tax Collection</td>
<td>1,781</td>
<td>2,003</td>
<td>2,599</td>
<td>2,709</td>
<td>2,802</td>
</tr>
<tr>
<td>Water supply &amp; Sewerage</td>
<td>624</td>
<td>702</td>
<td>687</td>
<td>828</td>
<td>854</td>
</tr>
<tr>
<td>Solid Waste Mgmt</td>
<td>1,611</td>
<td>1,682</td>
<td>1,685</td>
<td>1,953</td>
<td>2,059</td>
</tr>
<tr>
<td>Public Works</td>
<td>492</td>
<td>533</td>
<td>551</td>
<td>641</td>
<td>659</td>
</tr>
<tr>
<td>Street Lighting</td>
<td>381</td>
<td>427</td>
<td>447</td>
<td>528</td>
<td>538</td>
</tr>
<tr>
<td>Urban Poor (Public health, Edu., Slum Clearance)</td>
<td>3,878</td>
<td>4,091</td>
<td>4,726</td>
<td>4,921</td>
<td>5,074</td>
</tr>
<tr>
<td>Town Planning</td>
<td>44</td>
<td>58</td>
<td>62</td>
<td>73</td>
<td>77</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>518</td>
<td>564</td>
<td>581</td>
<td>672</td>
<td>691</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9,330</td>
<td>10,060</td>
<td>11,339</td>
<td>12,324</td>
<td>12,734</td>
</tr>
<tr>
<td><strong>Share in Rev Exp (%)</strong></td>
<td>62</td>
<td>63</td>
<td>65</td>
<td>65</td>
<td>58</td>
</tr>
<tr>
<td><strong>Annual growth rate (%)</strong></td>
<td>7.8</td>
<td>12.7</td>
<td>8.7</td>
<td>3.3</td>
<td></td>
</tr>
</tbody>
</table>

### Table 33. Section wise O & M Expenditure

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General Admin &amp; Tax Coll</td>
<td>713</td>
<td>848</td>
<td>773</td>
<td>1133</td>
<td>1265</td>
<td>16%</td>
<td>15</td>
</tr>
<tr>
<td>Water Supply</td>
<td>1691</td>
<td>1731</td>
<td>1515</td>
<td>1703</td>
<td>1861</td>
<td>29%</td>
<td>2</td>
</tr>
<tr>
<td>Sewerage &amp; Sanitation</td>
<td>217</td>
<td>322</td>
<td>291</td>
<td>296</td>
<td>406</td>
<td>5%</td>
<td>17</td>
</tr>
<tr>
<td>Solid Waste Management</td>
<td>346</td>
<td>424</td>
<td>527</td>
<td>664</td>
<td>727</td>
<td>9%</td>
<td>20</td>
</tr>
<tr>
<td>Roads, Drains &amp; Bldgs</td>
<td>24</td>
<td>22</td>
<td>20</td>
<td>34</td>
<td>55</td>
<td>1%</td>
<td>24</td>
</tr>
<tr>
<td>Street Lighting</td>
<td>837</td>
<td>612</td>
<td>526</td>
<td>568</td>
<td>683</td>
<td>11%</td>
<td>(5)</td>
</tr>
<tr>
<td>Urban Poor</td>
<td>804</td>
<td>970</td>
<td>1037</td>
<td>1875</td>
<td>2075</td>
<td>23%</td>
<td>27</td>
</tr>
<tr>
<td>Others</td>
<td>287</td>
<td>335</td>
<td>326</td>
<td>363</td>
<td>397</td>
<td>6%</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4917</td>
<td>5263</td>
<td>5014</td>
<td>6636</td>
<td>7469</td>
<td>100%</td>
<td>11</td>
</tr>
</tbody>
</table>
PCMC VISION

“Pimpri-Chinchwad will be the place to live, spend and entertain. It will contribute towards maintaining and sustaining the vibrant economic growth of the region through a modern & systematized administration, an optimum level of services and enriched environment“
To achieve the Vision, PCMC targets:

- Sustainable City
  - Controlled Population with adequate and meaningful employment
  - Adequate and equitable access to basic amenities
  - Appropriate Transportation
  - Effective Environmental Infrastructure
  - Governance with peoples participation

PCMC GRIHA MODEL
Way Forward-PCMC Commitment

• To encourage development which will treat and reuse wet solid waste and divert the dry waste into the recycling stream.

• This will reduce the need to invest in the collection, transportation and treatment of solid waste at the ULB level.

• To encourage treatment of waste water and reuse it for non potable uses like landscaping and flushing.

• This will reduce the need to look for alternative sources of potable water as well as reduce considerably expenditure on laying of water supply and sewerage lines as well as treatment costs on STPs
• To encourage onsite renewable energy generation
• *This will reduce the need for further generation of electricity at the National Level as well as reduce the pollution at the place of generation.*

• To encourage GREEN BUILDINGS by incentivizing GRIHA Certified Buildings in PCMC jurisdiction.
Why was PCMC interested in encouraging GRIHA rated projects?

- Indigenous system that is developed for the Indian Context
- Considers the National priorities and hence refers to National Standards and Codes.
- System can rate most of the project types i.e. residential, commercial and institutional
- Promoted by Ministry Of New and Renewable Energy
- Fast track Environment Clearance for GRIHA Pre Certified Projects
The Process

• Meeting with stakeholders for a consultative dialogue
• Interaction of the PCMC officials with GRIHA representatives for tailoring the process for GRIHA Certification to accommodate the PCMC procedures
• Green Building Initiative approval from the General Body
• Setting up of the Environment Cell of PCMC
• Announcement of the PCMC GRIHA MODEL
Incentives offered by PCMC to GRIHA Rated Projects

For Developers
GRIHA 5 star: 50% rebate on Premium
GRIHA 4 star: 40% rebate on Premium
GRIHA 3 star: 30% rebate on Premium
GRIHA 2 star: 20% rebate on Premium
GRIHA 1 star: 10% rebate on Premium

For Occupiers
10-15% rebate on property tax
The Process

- Web link on PCMC Website under the Building Permission Department
- Acceptance of projects for GRIHA Certification
PCMC-GRIHA PROCESS

1. Project Registers at www.grihaindia.org
2. One Day Workshop for Developer Team
3. Site Visit by ADaRSH
4. Integration of design inputs towards GRIHA compliance

Registration Information reported to PCMC Environmental Cell and Building Permission Cell

5. Submission of documents online during the entire project life cycle
6. Site Visit for due diligence at completion of super structure
7. Submission of documents online during the entire project life cycle
8. Site Visit for due diligence at finishing stage

Registration Information reported to PCMC Environmental Cell and Building Permission Cell

PCMC GRIHA MODEL
PCMC-GRIHA PROCESS

9 Preliminary Review of the documents by ADaRSH

10 Clarifications of comments by Developer team

11 Award of Provisional Rating

12 Post Occupancy Audit by BEE Certified Energy Auditor

13 Award of Final GRIHA Certification

Information reported to PCMC Environmental Cell and Building Permission Cell
13 Award of Final GRIHA Certification

Information reported to PCMC Environmental Cell and Building Permission Cell

14 PCMC Occupancy Certificate after PCMC due diligence

15 Incentives on Premiums released to the developer

16 Property Tax rebates released to the occupiers

14 Incentives released by MNRE
(as applicable for the project)
NEXT STEPS

• To conduct awareness programs to promote GRIHA Rating for projects in PCMC jurisdiction
• To make available the technical GRIHA criteria in an easy to understand, regional language
• To conduct advanced training programs for professionals
• To document best practices adopted by projects to achieve the intent of GRIHA Criteria
• To encourage the developers to adopt the GRIHA Criteria right at the conceptual level.
• To adopt the GRIHA Criteria for upcoming PCMC buildings
Let us join hands to work towards Sustainable Cities through promotion of Green Buildings.

Thank you

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