

GOVT. OF BIHAR

ACTION TAKEN

BY

PATNA MUNICIPAL CORPORATION

AND

BIHAR RAJYA JAL PARSHAD

FOR

MONSOON 2009

MAY, 2009

PATNA EXISTING DRAINAGE SYSTEM AT A GLANCE

- Area :PMC-9945 ha, PUA:13579 ha
- Population (2001Census) :PMC-13.77lakh,PUA-16.97lakh
- Population (2011AD) :PMC-18.11 lakh ,PUA-22.5lakh
- Population Present :PMC-16.77 lakh
- Level :53 m above M.S.L
- HFL :51.6 m. above M.S.L
- Avg. Annual rain fall (Normal) :1100mm

DRAINAGE PUMPING STATION

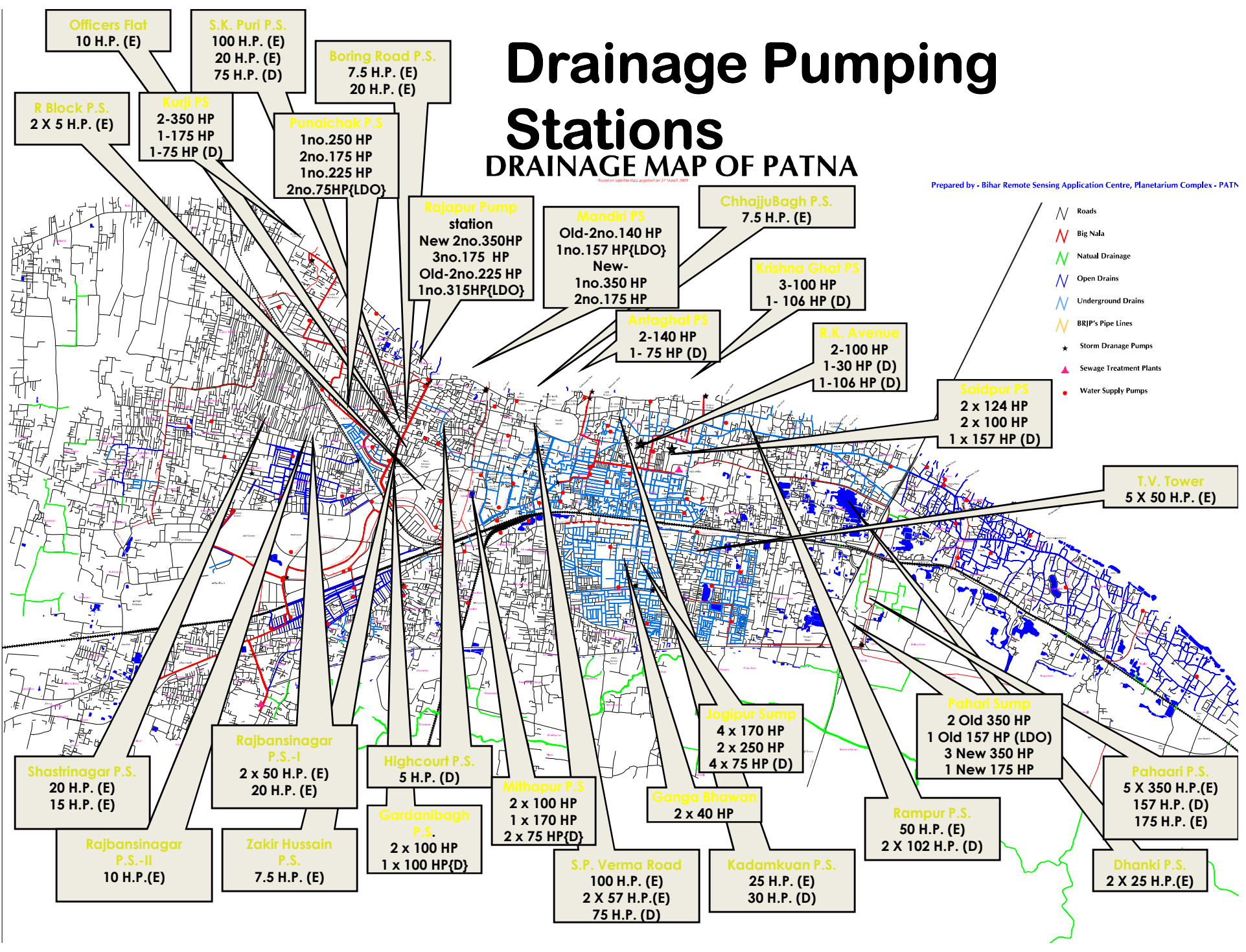
- **Under Bihar Rajya Jal Parshad (BRJP) :- 18 (total nos of pumps -73)**
- **Transferred to BRJP form PHED :- 6 (total nos of pumps-9)**
- **Under Patna Municipal Corporation :- 10 (total nos of pumps- 23)**
- **Under Housing Board :- 1 (total nos of pumps-3)**

- **MAP OF PATNA SHOWING LOCATION OF P.S. AND DRAINS IS GIVEN IN NEXT SLIDE .**

Drainage Pumping Stations

DRAINAGE MAP OF PATNA

Prepared by - Bihar Remote Sensing Application Centre, Planetarium Complex - PATNA



- Roads
- Big Nala
- Natural Drainage
- Open Drains
- Underground Drains
- BRJP's Pipe Lines
- Storm Drainage Pumps
- Sewage Treatment Plants
- Water Supply Pumps

DRAINAGE PUMPING STATION

REPAIR OF EXISTING PUMPS

- **TOTAL NOS. OF PUMPING STATIONS : 34**

BRJP-24 Nos. (Pahari(new), Pahari (Old), Yogipur, Ganga Bhawan, Saidpur, R.K. Avenue Krishnaghat, S.P.Verma Road Antaghat, Mandiri (old), Mandiri (New) Rajapur (old), Rajapur (New), Kurjee, Punaichak, Rajbanshi Nagar, Mithapur, Gardani bagh, Shastrinagar, Rajbanshi Nagar, Dr. Zakir Hussain Institute ,officer's flat Bailey Road, C.I.D Colony NMCH (RMRI)

PMC – 10Nos. (Rajbanshi Nagar, High Court, R. Block, S.K. Puri, Boring Road Kadam Kuan, Bahadurpur (TV Tower) Dhanukimore, Chhajju bagh, Rampur.

- Total nos of existing Pumps : 104
- Nos of pumps repaired and put under operation : 82
- Nos. of pumps replaced by new pumps : 6
- Nos. of pumps under repaing and will be put under operation by 31-05-2009 : 15
- No. of pump under installation under replacement plan : 1

DRAINAGE PUMPING STATIONS

PUMP/TRANSFORMER UNDER REPLACEMENT PLAN

- Nos. of new pumps installed, Commissioned and tested on no load for BRJP's P.H. : 6 Nos. (Electric)
(Rajapur-2nos.350HP, Mandiri-1no 350 HP and 1no 175 HP, Antaghat-2nos 175 HP) (Total Capacity-1575 HP)
- Nos. of new pumps under installation which will be commissioned by 7th June, 2009. : 2 Nos. (Diesel)
(150 HP each at Yogipur & Saidpur) (Total Capacity – 30 HP)
- Nos. of new pumps for which supply order issued on 31-03-09 with time of completion of 4 months. (31st July,2009) : 41 Nos.(Electric-27, Diesel-14)
(Total Capacity -8110 HP)
- Nos. of new transformers for which supply order issued on 31.03.2009 with time of completion of 4 months . (31st July,2009) :17 Nos.(Total capacity-7300 KVA)

- Nos. of new pumps for which supply order issued with time of completion of 4 months for BRJP and PMC's P.H. : 14 Nos. electric
 Total capacity-1175 HP
- Nos. of new transformers for which supply order issued with time of completion of 4 months for BRJP and P.M.C's P.H. : 7 Nos. (Total capacity-1150KVA)
- Nos. of new pumps to be installed by NBCC at Jogipur and Pahari New pumping Stations : 7 Nos. (Total capacity-2450HP)

PATNA MUNICIPAL CORPORATION

ALTERNATIVE PUMPING ARRANGEMENT

- Nos of portable pumps with Capacity of 10H.P each available with PMC (Pumps will be deployed as per requirement at various locations affected by Severe water logging problems) : 27 Nos (Total Capacity 270 HP)
- Nos of new trolley mounted diesel pumps for which order placed and will be available with PMC by 7th June 2009 (Pumps will be deployed as per requirement at various locations affected by Severe water logging problems) : 20 Nos (10nos 22HP, 10 Nos 32 HP) (total Capacity 540 HP)
- **Last Year only 11 Nos portable Pumps with total capacity of 260 HP were deployed**

BIHAR RAJYA JAL PARSHAD & PMC

CONSTRUCTION OF KACHHA DRAIN AND RAPAIR OF DRAIN

- Construction of drain from Beur to Nandlal Chapra under progress and to be completed by 31st May 2009.
- Construction of 370 meter long Kachha drain from Sandalpur Sump to Saidpur Nala (near RMRI) under Progress and to be completed by 31st may 2009. Portable diesel pump to be deployed by 7th June 2009.
- Damaged portion of the underground channel from Saidpur P.H. to Saidpur drain has been repaired.
- Repair work of stopping back flow In the defunct outlet sever of R.K.Avenue P.H. has been completed.
- Repair work of Saidpur Drain from Saidpur to Pahari has been completed.

PATNA MUNICIPAL CORPORATION

Desilting & Cleaning of Major Drains

No of Major Nalas : 9

- Cleaning work of Saidpur Nala from Saidpur to Pahari has been completed.
 - Cleaning of Anandpuri Nala is under progress and to be completed by 25th May 2009.
 - Cleaning work of Kurjee Nala is under progress and to be completed by 31st May 2009.
 - Cleaning work of Serpentine Nala has been completed.
 - Cleaning work of Patelnagar Nala has been completed.
 - Cleaning work of Sri S.K.Puri Railway hunter Nala has been completed.
 - Cleaning work of Bakarganj Nala is under progress and to be completed by 31st May 2009.
 - Cleaning work of Mandiri Nala has been completed.
 - Cleaning work of Mithapur Nala is under progress and to be completed by 31st May 2009.
- * Above Major Nalas have been cleaned and desilted once /under progress . Necessary arrangement has been made to clean and remove obstruction time to time as per requirement during monsoon.

BIHAR RAJYA JAL PARSHAD AND PATNA MUNICIPAL CORPORATION

Monitoring and Supervision

- Standard Operating Procedures for responding to monsoon related water logging problem in Patna for effective operation, repairs and maintenance of Patna drainage system involving different concerned departments and agencies namely UDD, PHED, PMC, RCD, WRD BRPN, BSEB, District and Police administration Transport department, IMD,PRD,BSHB etc has been formulated and order in this regards will be issued shortly by competent Authority.
- Comprehensive Action Plan with deployment of Engineers, Executive Officer and Staff of BRJP and PMC has been prepared for operation, repairs & maintenance of drainage pumping station and drainage system during monsoon & Joint order of BRJP and PMC is being issued with effect from 1st June 2009.
- Central Control Room will Start functioning from 1st June 2009 and it will be manned jointly by PMC and BRJP for better and effective monitoring and Control of activities related to operation, repairs and maintenance of Patna Drainage System.
- No of Static team comprising of Engineers deputed at : 13
Pumping Stations
Total no of Engineers deputed :39

Monitoring and Supervision

- No of Mobile Team comprising of Engineer and Repair Technicians : 06
Total no of personnel : 25
 - No of Super Mobile Teams comprising of Engineers headed by Executive Engineer. :04
Total no of Engineers deputed. :12
 - No of Circle wise Supervising Team headed by Executive officers of PMC :04
No of officers deputed. :13
 - No of Engineers, Sanitary Inspectors & other support Staff to ensure deployment of portable pumps & other equipment e.g. JCB etc. :06
 - Concerned Engineers of BRJP & PMC will ensure timely repairs & maintenance of plant.
 - No of Team for operation of Central Control Room at PMC (Mouryalok) office :03
Total No of Engineers and Staff deputed for Control Room :18
- * **The Central Control Room ; Static, Mobile, Super Mobile Teams etc will function for 24 x7 in 3 shifts.**