

Charter for Water Recycling & Pollution Prevention in Pulp & Paper Industries (Specific to Ganga River Basin States)



A.K.Vidyarthi
Additional Director
Central Pollution Control Board
Delhi

July, 2015

Agenda Items

- Confirmation of list of Pulp & Paper Mills:
 - Operational (85), Closed (17), Straw Board (5), Total (107)
- Validation of Action Plans:
 - Validated (74), Revision required (6), Not submitted (5)
- Implementation of validated action plans:
 - Individual Action plan, Validation report & Milestone chart
- Action against mills which have not submitted action plan:
- Modification of 'Consent to Operate':

Agenda Items (contd..)

- Verification of inventory reported in individual action plans
 - Process & ETP technology, water consumption, effluent generation
- Submission of monthly progress report to SPCB & CPCB:
 - Hard copy and e-mail
- Quarterly verification & compilation by SPCB/ CPPRI
 - Submission of verification report to SPCB & CPCB (hard copy & e-mail)
- Joining of remaining mills with third party:

Agenda Items (contd..)

- Auditing of CRPs & agro chemical pulping facilities:
- Monthly reporting of 'Protocol for operation of CRPs':
 - Mill copy, certified copy by ROs, SPCB to forward to CPCB
 - Monthly schedule to be fixed
- Identification of recipient drains, u/s & d/s locations
 - Teams to be constituted & time schedule to be fixed
- Drain monitoring – fortnightly & monthly, data reporting to CPCB

Agenda Items (contd..)

- Data collection, collation & compilation for report preparation:
- Organizing review meetings at regional level
 - Finalization of schedule
- Straw Board Mills- follow up actions:
- Setting up of on-line effluent monitoring system:
 - Status, calibration validation, linkage to CPCB

Agenda Items (contd..)

- DPR for irrigational use of treated effluent
- Installation of sealed flow meter /running hours meter on bore wells and inlet pipe line of different process section i.e. pulp mill, paper machine , boiler etc
 - Verification & reporting to SPCB & CPCB
- Colour coding of pipe lines carrying recycled process water and fresh process water
 - Verification & reporting to SPCB & CPCB
- Maintenance of log book to record daily water drawl from bore well and water consumption unit wise after installation of meter and reporting to SPCB

Agenda Items (contd..)

- Setting up of laboratories
 - Minimum Analysis Facilities for pH, TSS, TDS, BOD, COD, MLSS, MLVSS and Colour
- Recruitment of trained lab & ETP staffs
- Creation of Environmental Management Cell
 - Weekly meetings, record of minutes, verification of minutes by CPPRI & SPCB
- Maintenance of log book to record daily water drawl from bore well and water consumption unit wise after installation of meter and reporting to SPCB
- Periodic & surprise inspection by SPCB

Plan of Activities: Facilitation of Charter

S.No.	Activities/ Action Points	Time Schedule/ frequency
i.	Commissioning of continuous online effluent/ emission monitoring system	March 31, 2015
ii.	Self Assessment: Inventory of existing process technologies & practices, identification of upgradation requirement and preparation of action plan for upgradation of process technology with supporting document & pert chart; submission to SPCB/ CPCB	April 2015
iii.	Self Assessment: Preparation of report of existing water consumption- section wise, reuse/ recycle practices; Preparation of work plan to achieve fresh water requirement targets, submission to SPCB/ CPCB	April 2015

iv.	Self Assessment: Preparation of ETP adequacy assessment report; and proposed augmentation and up-gradation plan, design/ drawing, along with monthly PERT Chart, submission to SPCB/ CPCB	April 2015
v.	Installation of sealed flow meter /running hours meter on bore wells and inlet pipe line of different process section i.e. pulp mill, paper machine , boiler etc	April 2015
vi.	Colour coding of pipe lines carrying recycled process water and fresh process water	May 2015
vii.	Maintenance of log book to record daily water drawl from bore well and water consumption unit wise after installation of meter and reporting to SPCB	Monthly

viii.	Self Monitoring & Reporting: ETP performance monitoring by individual Mills and maintenance of Log Book	Monthly
ix.	Submission of monthly progress reports to SPCBs	Monthly
x.	Verification of progress and reporting by third parties to SPCBs/ CPCB	Quarterly
xi.	Upgradation/ modification and augmentation of ETP upto tertiary treatment level	March 31, 2016
xii.	Compliance with the treated effluent discharge norms as prescribed under the Charter	March 31, 2016
xiii.	Compliance with the short term targets of fresh water consumption and effluent generation norms through implementation of desired technologies prescribed under the Charter	March 31, 2016

xiv.	Compliance with the long term targets of fresh water consumption and effluent generation norms through implementation of desired technologies prescribed under the Charter	March 31, 2017
xv.	Setting up of projects/ infrastructure for utilisation of treated effluent, meeting with irrigation water quality norms, for irrigation within the command area as per the irrigation management plan, to achieve zero effluent discharge to river streams	March 31, 2017

Protocol for operating Chemical Recovery Plants (individual/ common)

- Measurement of Black Liquor
- Production data of soda ash
- Steam and power consumption
- Caustic Consumption
- Submission of measurement reports/ information to SPCBs
- On Line Monitoring of CRP

Thank You !!