

# MAHARASHTRA POLLUTION CONTROL BOARD



**Minutes of 12<sup>th</sup> Consent Appraisal Committee Meeting of 2013-2014 held on 12.9.2013 at 11.00 am at Conference Hall, MPC Board, Kalpataru Point, 4<sup>th</sup> Floor, Sion Circle, Sion (E), Mumbai 22.**

.....

The Consent Appraisal Committee meeting of the Board was held on 12.9.2013. Following members of the Consent Appraisal Committee were present:

- |    |  |                  |
|----|--|------------------|
| 1. | Shri. J. S. Sahni,<br>Chairman, MPC Board, Mumbai.               | Chairman         |
| 2. | Shri. Rajeev Kumar Mital,<br>Member Secretary, MPC Board, Mumbai | Member Secretary |
| 3. | Shri.P.P.Nandusekar<br>Technical Advisor( Env), MIDC, Mumbai     | Member           |
| 4. | Shri. Rakesh Kumar,<br>Scientist & Head, NEERI, Mumbai           | Special Invitee  |

The Secretary, Home (Transport) Dept., Mantralaya, Mumbai, Member could not attend the meeting. Leave of absence was granted to him.

Chairman of the committee welcomed the members of the committee and allowed proceeding of the meeting to start.

The meeting thereafter deliberated on the agenda items (Book-let no.15) placed before the committee and following decisions were taken.

Sr. No.	Name of Industry/ Topic	Decision on grant of consent	Remarks/Discussion (1)
1	Flow Chart & BG regime alongwith database for textile units	---	<p>The newly prepared flowchart for textile units was reviewed and following modifications were instructed to CAC cell:</p> <ol style="list-style-type: none"> <li>1. The bifurcation of BG at T2 A &amp; B (which is for upgradation of ETP) points is for internal compliance matrix only and whole amount of BG should be incorporated in consent.</li> <li>2. At point no. T4 the applicability of available land conditions should be specified, i.e. only in case the industry proposes to use the treated effluent on land for irrigation and gardening.</li> <li>3. The coding of the conditions should be additionally shown as under Air, Water, Hz waste under Control equipment, Monitoring &amp; Compliance parts in a Matrix format.</li> <li>4. Chlorine tonner storage and VOC accidental emission issues including pollutants level in work environment in respect of safety of workers falls under the purview of DISH. Hence it was decided to club with similar general condition in the consent.</li> <li>5. In order to take measures to control TDS parameter and to recycle maximum treated effluent in process, CAC proposed to communicate to industries / host on website that MPCB is reviewing all industries sectorwise load. MPCB is now implementing the condition of controlling TDS in consents by proposing tertiary treatment like Multiple Effect Evaporator. Hence if any of the industry has any proposal/ plan to control the TDS in efficient manner, it may please submit its action plan within 15 days of this communication/announcement. JD(WPC) and Rakesh Kumar from NEERI shall prepare the note to examine this issue further and put up before CAC.</li> <li>6. PSO shall prepare Sectoral Atlas for all highly polluting industries identified by CPCB.</li> <li>7. Like Air emissions &amp; waste water generation streams shown in the flowchart, Hz waste should also be indicated in the flowchart.</li> <li>8. The BG regime for Hz. Waste will be sub-categorised viz. Storage (with proper sytem i.e. cover, leachate collection system, connection to ETP,etc) for which BG will be Rs. 1</li> </ol>

		<p>lakh, Mode of disposal i.e. to CHWSTDF, recycle, Incineration etc for which BG will be Rs. 1 lakh and maintaining records for which BG will be Rs. 25,000. The policy at point no.1. above will be applicable to Hz waste also.</p> <p>9. The scrutiny sheet and consent draft for specific sectors should be modified as per the respective revised BG regime. This is applicable for other sectors also.</p> <p>10. The database of textile units with above modifications and other details will be placed before next CAC meeting.</p> <p>11. Also prepare a BG regime for all sectors for C to E, O &amp; R based on the design of PCS (overdesign &amp; underdesign)</p>
2	Flow Chart & BG regime alongwith database for cement units	<p>The newly prepared flowchart for cement plants was reviewed and following modifications were instructed to CAC cell:</p> <ol style="list-style-type: none"> <li>1. Point no. 1 above will also be applicable to Cement Plants.</li> <li>2. The APC system to be provided at Sr.no. C2 of flowchart should be specific e.g. closed hood &amp; Bag filter to be provided at transfer points, pulveriser etc.</li> <li>3. The condition of provision of CAAQMS at Sr. no. C4 shall be subject to general policy to be decided by the Board.</li> <li>4. The BG regime for C6A is for achieving consented standards from emission source. The BG regime for C6 B will be replaced to control fugitive emissions (the verification shall be done on visual observation regarding monitoring of the secondary emission system for checking the adequacy. No action shall be taken on the field level. Required photographs shall be taken and sent to the head office for further necessary actions.)</li> <li>5. Considering the location of the cement industries near to each other and air polluting in nature and creating impact on ambient. It was decided to take action plan from industries to reduce SPM level at source by making standard more stringent. Where SPM prescribed above 100 mg/Nm<sup>3</sup> reduction in pollution load in 3 yrs by 50 %. SPM prescribed less than 100 mg/Nm<sup>3</sup> reduction in pollution load in 5 yrs by 50 %.</li> </ol>

			In Chandrapur district, new industries will be allowed only if they propose to achieve 30 mg/Nm <sup>3</sup> source standard for SPM.
3	Flow Chart & BG regime for Steel units		<p>The newly prepared flowchart for steel units was reviewed and following modifications were instructed to CAC cell:</p> <ol style="list-style-type: none"> <li>1. From the flowchart it was noted that the processes before casting and after casting are different. Hence two different BG regime shall be framed accordingly.</li> <li>2. For Code S1, the bank guarantee applicable shall be Rs 5 lakhs per APC system.</li> <li>3. In case of point no 2., it was decided as per the following <ol style="list-style-type: none"> <li>a. As far as pollution is concerned, this is the major issue. Hence strategies need to be devised to tackle the problem.</li> <li>b. Existing units shall submit the design details and the same shall be examined by the TAC for the adequacy of the system.</li> <li>c. Currently, emphasis shall be done on visual observation regarding monitoring of the secondary emission system for checking the adequacy. No action shall be taken on the field level. Required photographs shall be taken and sent to the head office for further necessary actions.</li> <li>d. MPCB shall propose the industries to avail the new secondary emission control systems in the market and submit a road-map within 3 months. Period of 2 years for installation and commissioning of the new systems shall be given. BG of Rs 2 lakhs shall be applicable for submission of roadmap towards the installation and commissioning of the new systems.</li> </ol> </li> <li>4. MPCB shall get the details about laser monitoring systems for the detection and quantification of the secondary emissions and whether it is useful to MPCB for monitoring purposes- Action by Dr. Rakesh Kumar &amp; JD(APC).</li> </ol>

4	Flow Chart & BG regime for Power Plant		Due to shortage of time, these items could not be discussed. These will be discussed in the next CAC meeting.
5	Flow Chart & BG regime for Paper & pulp units		
6	Flow Chart & BG regime for MSW of ULB units		
7	BG regime for STP of ULB units		
8	Flow Chart & BG regime for HCE		
9	Policy for distillery for operation in rainy season		
Review			
1	India Steel Works Ltd.,	Approved proposal for Issuance of CD / Not Approved	Due to shortage of time, this could not be discussed. These will be discussed in the next CAC meeting.

The next CAC meeting will be held on 23.9.2013 at 11.00 am.

The meeting ended with vote of thanks to the Chair.

**General Points:**

1. Shri. Rakesh Kumar to check the co-relation of flowchart with process for both cement & textile.
2. JD(APC) to submit the no. of units and SPM load by examining the Env't. Statements of the sectoral industries Steel, sponge Iron, Power, Cement for the year 2010-11 & 2011-12 by 20.9.2013.

**Compliance period with Bank Guarantee for the Textile Industry**

<b>Code</b>	<b>Compliance</b>	<b>Bank Guarantee (In Rs)</b>	<b>Time for Compliance</b>	<b>Compliance report with remarks by SRO</b>
<b>TWC1</b>	Providing Closed pipeline for carrying effluent from various units to ETP	2,00,000/-	31.12.2013	15.01.2014
<b>TWC2</b>	Upgrade your ----- undersize / oversized units of the Effluent Treatment Plant to adequate capacity.	600,000/- (a+b)		
<b>TWC2a</b>	Placing the order for upgradation.	3,00,000/-*	31.12.2013	15.01.2014
<b>TWC2b</b>	Completion and commissioning of upgraded ETP.	3,00,000/-*	31.03.2014	15.04.2014
<b>TWC3</b>	Providing Arrangement for treated effluent recycle and reuse atleast 50% along with Multiple Effect Evaporator (MEE).	5,00,000/-	31.05.2014	15.06.2014
<b>TWC4</b>	Providing adequate Land available for disposal of the treated effluent (@ 20 M <sup>3</sup> /Acre) , only in case the industry proposes to use the treated effluent for irrigation and gardening.	5,00,000/-	31.05.2014	15.06.2014
<b>TWM1</b>	To provide flow meter and pH meter at the outlet of treated effluent plant.	25000 /-	31.03.2014	15.04.2014
<b>TAC1</b>	Upgrade your exiting ----- Air Pollution Control System by	5,00,000/- (a+b+c)		
<b>TAC1a</b>	Providing adequate stack height	2,00,000 /-*	31.03.2014	15.04.2014
<b>TAC1b</b>	Placing the order for upgradation.	1,00,000/- *	31.12.2013	15.01.2014
<b>TAC1c</b>	Completion and commissioning of upgraded APC system.	2,00,000 /-*	31.03.2014	15.04.2014
<b>TNC1</b>	Providing Ash Collection and Disposal arrangements	10000/-	28.02.2014	10.03.2014

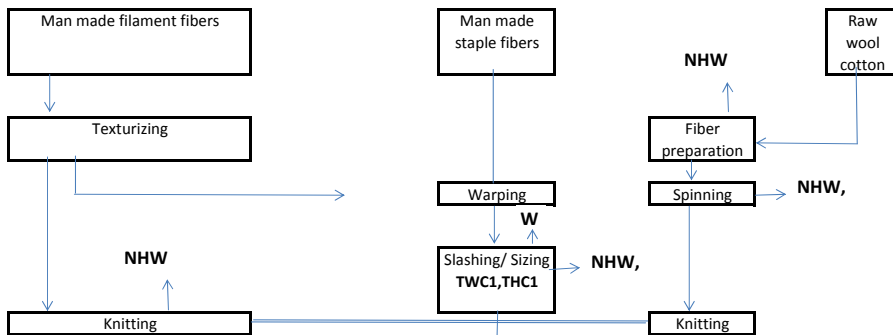
<b>THC1</b>	Hazardous Waste as per the HW (M, H & TM) Rules, 2008.	2,25,000/-	Continuous	Monthly
<b>THC1a</b>	Storage (Proper cover, leachate collection system, connection to ET, Not exceeding 90 days storage etc)	1,00,000 /-*		
<b>THC1b</b>	Mode of Disposal (CHWTSDF, recycle, incineration etc)	1,00,000/- *		
<b>THM1c</b>	Maintaining Records	25,000 /-*		
<b>TWO1</b>	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	10,00,000/-	Continuous	Monthly
<b>TAO1</b>	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	5,00,000/-	Continuous	Monthly

\* - This breakup is for internal compliance matrix only and will help in deciding amount of BG to be forfeited based on point- wise non-compliance.

T = Textile, W= Water, A= Air, H=Hazardous Waste, N= Non-Hazardous waste ,C=Control, M=Monitoring, O= Operation & Maintenance

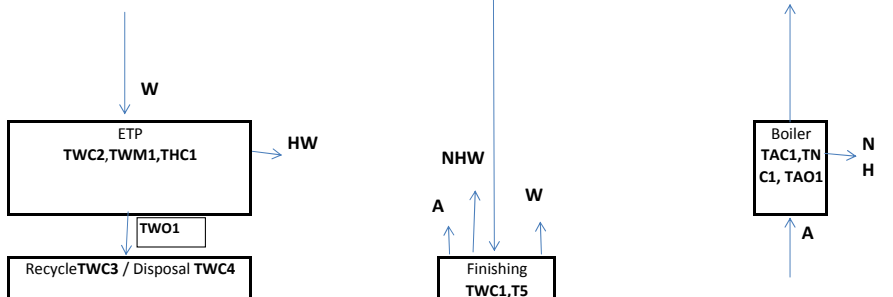
	Control	Monitoring	Operation & Maintenance
<b>Water</b>	TWC1,TWC2,TWC2a, TWC2b, TWC3, TWC4	TWM1	TWO1
<b>Air</b>	TAC1, TAC1a, TAC1b, TAC1c		TAO1
<b>Hazardous Waste</b>	THC1, THC1a, THC1b	THM1c	
<b>Non-Hazardous waste</b>	TNC1		

### Flow Diagram for steps involved in processing in Textile industries



<b>W</b>	Waste water generation
<b>A</b>	Air emissions
<b>HW</b>	Hazardous waste
<b>NHW</b>	Non Hazardous waste

Code	Compliance	BG Amount (in Rs)	Code	Compliance	BG Amount in Rs
TWC1	Providing Closed pipeline for carrying effluent from various units to ETP	2,00,000/-	TNC1	Providing Ash Collection and Disposal arrangements	10000/-
TWC2	Upgrade your ..... undersize / oversized units of the Effluent Treatment Plant to adequate capacity.	600,000/- (A+B)	THC1	Hazardous Waste as per the HW (M, H & TM) Rules, 2008.	2,25,000/-
TWC2a	Placing the order for upgradation.	3,00,000/-*	THC1a	Storage (Proper cover, leachate collection system, connection to ET, Not exceeding 90 days storage	1,00,000 /-*
TWC2b	Completion and commissioning of upgraded ETP.	3,00,000/-*	THC1b	Mode of Disposal (CHWTSDF, recycle, incineration etc)	1,00,000 /-*
TWC3	Providing Arrangement for treated effluent recycle and reuse atleast 50% along with Multiple Effect Evaporator (MEE).	5,00,000/-	THM1c	Maintaining Records	25,000 /-*
TWC4	Providing adequate Land available for disposal of the treated effluent (@ 20 M <sup>3</sup> /Acre) only in case the industry proposes to use the treated effluent for irrigation and gardening.	5,00,000/-	TWO1	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	10,00,000/-
TWM1	To provide flow meter and pH meter at the outlet of treated effluent plant.	25000	TAO1	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	5,00,000/-
TAC1	Upgrade your exiting ..... Air Pollution Control System by	5,00,000			
TAC1a	Providing adequate stack height	2,00,000			
TAC1b	B. Placing the order for upgradation.	1,00,000			
TAC1c	C. Completion and commissioning of upgraded APC system.	2,00,000			





**Compliance period with Bank Guarantee for the Cement plant**

<b>Code</b>	<b>Consent conditions</b>	<b>BG amount (in Rs)</b>	<b>Time for compliance</b>	<b>Compliance report with remarks by SRO</b>
<b>CeAC1</b>	Industry shall provide adequate ESP/bag filter/GBH to source emission i.e., Raw Mill, Coal Mill, Kiln, Cement Mill etc., (Per APC system)	5,00,000/- (a+b)		
<b>CeAC1a</b>	Placing of order for APC system (Per APC system)	1,00,000/- *	30/10/2013	15/11/2013
<b>CeAC1b</b>	Completion of work of APC system (Per APC system)	4,00,000/- *	30/06/2014	15/07/2014
<b>CeAC2</b>	Providing Adequate Stack Height (per Stack)	1,00,000/-	30/06/2014	15/07/2014
<b>CeAC3</b>	Industry to provide adequate APC systems to control fugitive emissions as below	12,00,000/- (a+b+c)	31/03/2014	15/04/2014
<b>CeAC3a</b>	<b>Input areas:</b> Raw material handling plants, raw material storage, conveyor systems/transfer points, internal roads etc  APC systems like closed shed, closed conveyor system, closed hood and bag filter for transfer points, concrete road with mist type sprinklers etc	5,00,000 /-*		
<b>CeAC3b</b>	<b>Intermediate areas:</b> Pulveriser/conveyor systems/transfer point/clinker gantry etc  APC systems like Closed hood and Bag Filter etc	2,00,000/- *		
<b>CeAC3c</b>	<b>Output areas:</b> Product house/packaging plant, storage area, conveyor systems/transfer points bagging area etc  APC systems like closed shed, closed conveyor system, closed hood and bag filter for transfer points,	5,00,000 /-*		

<b>CeWC1</b>	Industry shall provide adequate STP for treatment of domestic effluent to achieve the prescribed standards (applicable only if Domestic Effluent generation more than 20 CMD)	5,00,000/-	31/07/2014	15/08/2014
<b>CeAM1</b>	Industry shall provide CAAQMS for ambient air quality monitoring	5,00,000/- #	31/12/2013	15/01/2014
<b>CeAM2</b>	Industry shall provide continuous emission monitoring system to stack (BG for per stack).	1,00,000/-	31/12/2013	15/01/2014
<b>CeAO1</b>	Operation & maintenance of pollution control system	25,00,000/- (a+b)	Monthly	Monthly
<b>CeAO1a</b>	From Source emission (so as to achieve the standards)	20,00,000/- *		
<b>CeAO1b</b>	Fugitive emission	5,00,000/- *		
<b>CeAC4</b>	Industry to submit plans for NOx reduction in six months	1,00,000/-	31/03/2014	15/04/2014
<b>CeHC1</b>	Industry to dispose Fly ash as per fly ash Notification	10000/-	Monthly	Monthly

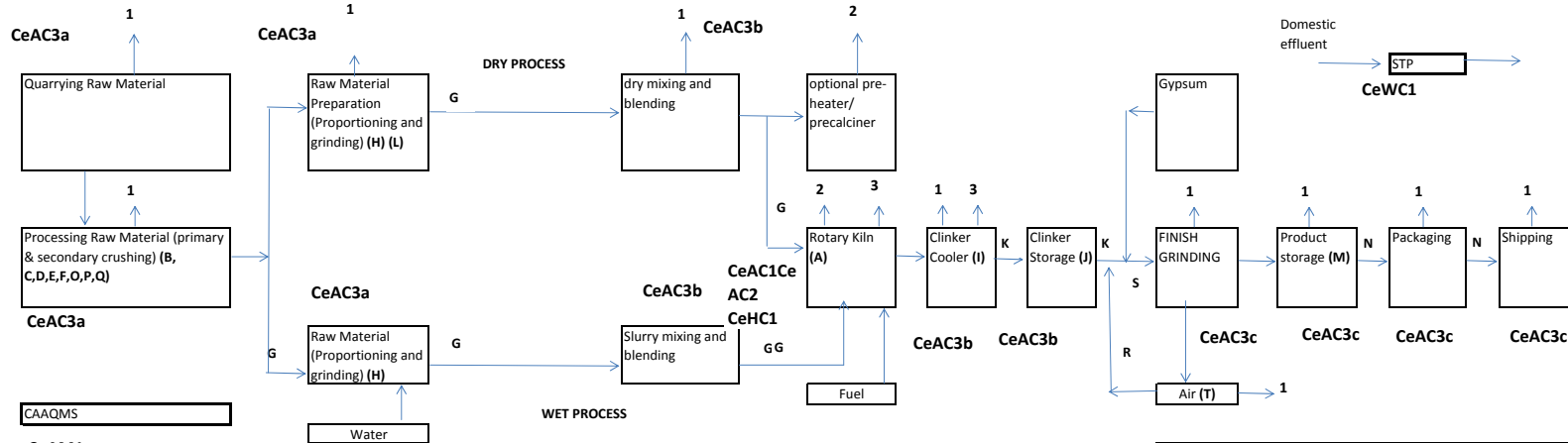
\* - This breakup is for internal compliance matrix only and will help in deciding amount of BG to be forfeited based on point- wise non-compliance.

# - Subject to general policy decision of the Board.

Ce = Cement, W= Water, A= Air, H=Hazardous Waste, C=Control, M=Monitoring, O= Operation & Maintenance

	<b>Control</b>	<b>Monitoring</b>	<b>O&amp; M</b>
<b>Water</b>	<b>CeWC1</b>		
<b>Air</b>	<b>CeAC1,CeAC1a,CeAC1b,CeAC2,CeAC3,CeAC3a, CeAC3b, CeAC3c, CeAC4</b>	<b>CeAM1. CeAM2</b>	<b>CeAO1 CeAO1a CeAO1b</b>
<b>Hazardous Waste</b>	<b>CeHC1</b>		

Flow Diagram for steps involved in processing in Cement industries



Code	Consent conditions	BG Amount in Rs	Code	Consent conditions	BG Amount in Rs
CeAC1	Industry shall provide adequate ESP/bag filter/GBH to source emission	5,00,000	CeWC1	Industry shall provide adequate STP for treatment of domestic effluent to achieve the prescribed standards (applicable only if Domestic Effluent generation more than 20 CMD)	5,00,000
CeAC1 a.	Placing of order for APC system (Per APC system)	1,00,000	CeAM1.	Industry shall provide CAAQMS for ambient air quality monitoring	5,00,000
CeAC1 b.	Completion of wok of APC system (Per APC system)	4,00,000	CeAM2	Industry shall provide continuous emission monitoring system to stack (BG for per stack).	1,00,000
CeAC2	Providing Adequate Stack Height (per stack)	1,00,000	CeAO1	Operation & maintenance of pollution control system so as to achieve the standards	25,00,000
CeAC3	Industry to provide adequate APC systems to control fugitive emissions as below	12,00,000	CeAO1a	From Source emission	20,00,000
CeAC3 a	<b>Input areas</b> like raw material handling plants, closed shed for raw material storage, conveyor systems/transfer points, providing concrete roads with mist type sprinklers etc	5,00,000	CeAO1b	From Fugitive emission	5,00,000
CeAC3 b	<b>Intermediate areas</b> like Pulveriser/conveyor systems/transfer point/clinker gantry etc	2,00,000	CeAC4	Industry to submit plans for NOx reduction	1,00,000
CeAC3 c	<b>Output areas</b> like Product house/package plant, closed shed for storage area, conveyor systems/transfer points bagging area etc	5,00,000	CeHC1	Industry to dispose Fly ash as per fly ash Notification	10,000/-

		Emission Source			
		A	Kiln	K	Clinker transfer
(1)-	PM emission Fugitive	B	Raw Material unloading	L	Clinker grinding
(2)-	PM Emission Stack	C	Raw Material Piles	M	cement Silos
(3)-	Gaseous Emission	D	Primary Crushing	N	cement load out
		E	Secondary Crushing	O	raw mill feed belt
		F	Screening	P	raw mill weigh hopper
		G	Raw Material Transfer	Q	raw mill air separator
		H	Raw Material Grinding /Drying	R	finish grinding mill feed belt
		I	Clinker Cooler	S	finish grinding mill weigh hopper
		J	Cliker Piles	T	finish grinding mill air separator

**Compliance period with Bank Guarantee for the Integrated Steel plant before casting operation**

Code	Consent conditions	BG amount (In Rs)	Time for compliance	Compliance report with remarks by SRO
SAC1.	Industry shall provide adequate capacity ESP/scrubber/bag filter to control TPM as per prescribed standards (Per APC system)	5,00,000/-	31/12/2014	30/01/2015
SAC2	Industry shall submit the road-map within 3 months for installation and commissioning of new secondary emission control systems in the market	2,00,000/-	31/12/2013	30/01/2014
SAC3	Industry shall provide adequate capacity of Secondary emission system at melting section and molten metal loading & unloading section	25,00,000/- (a+b)		
SAC3a	Placing of order for Secondary emission system	5,00,000/-	30/03/2014	31/04/2014
SAC3b	Completion of work of Secondary emission system	20,00,000/-	30/06/2015	31/07/2015
SAC3a	Industry shall provide adequate capacity dedusting systems to slag crushing section	5,00,000/-	30/06/2014	15/07/2014
SAC3b	Industry shall provide concrete roads & mist type Sprinklers/dust suppression system in raw material storage & Handling areas	5,00,000/-	30/06/2014	15/07/2014
SWC1	Industry shall provide effluent treatment plant & sewage treatment plant to achieve the prescribed standards	5,00,000/-	31/07/2014	15/08/2014
SAM1	Industry shall provide CAAQMS for ambient air quality monitoring & continuous emission monitoring system to stack	5,00,000/-	31/01/2014	15/02/2014
SAWO1	Operation & maintenance of pollution control system so as to achieve the standards	5,00,000/-	Monthly	Monthly

**\* - This breakup is for internal compliance matrix only and will help in deciding amount of BG to be forfeited based on point- wise non-compliance.**

**S = Steel, W= Water, A= Air, C=Control, M=Monitoring, O= Operation & Maintenance**

	Control	Monitoring	Operation & Maintenance
<b>Water</b>	SWC1	SWC1	SAWO1
<b>Air</b>	SAC1,SAC2,SAC2a,SAC2b,SAC3a,SAC3b	SAM1	SAWO1

