

**MINUTES (Part 1) OF THE 14th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 18<sup>th</sup>, 20<sup>th</sup> to 22<sup>nd</sup> February 2014.**

The 14th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 18<sup>th</sup>, 20<sup>th</sup> to 22<sup>nd</sup> February 2014 under the Chairmanship of Sh. A.K. Saxena in the Conference Room at 170 C, Ashok Nagar, Ranchi. The following members were present:

1. Sh. S.B.S Chauhan - Member
2. Dr. R.P. Singh Sangu - Member
3. Prof. (Dr.) M.C. Mahata - Member
4. Prof (Dr) Shatrunjay Singh - Member
5. Dr M. Mahto -Secretary

Er S K Singh, Member could not attend the meeting due to personal reasons. Matter related to setting up of Hazardous Waste Management Facility at Dungi, District Saraikela Kharaswan, Jharkhand was discussed. The views of Committee are submitted as follows:

**Hazardous Waste Management Facility of M/s Adityapur Auto Cluster at Village Dugni, Tehsil Saraikella District Saraikela Kharsawan, Jharkhand.**

The proposal is for establishment of Hazardous Waste Management Facility at Dungi, Jharkhand. Adityapur Industrial Area was established in 1972 with a command area of 33,970 Acres. The total developed work area comprises of ten sectors including one large sector industrial estate and one medium sector industrial estate. Units under production are 791 out of which 11 are large scale units, 64 are of medium scale, 550 are small and 166 are tiny scale units. These units are generating a total of 17400 TPA Hazardous waste including 700 TPA of recyclable oily, 200 TPA of recyclable metallic, 3400 TPA of incinerable, 13100 TPA of land fillable waste. Presently there is no facility to treat and dispose off these wastes properly. As such these are being disposed off in unscientific manner posing environmental and health hazard. The Government of India through IIUS scheme, has proposed to set up a Hazardous Waste Management Facility for proper treatment and disposal of these wastes. Adityapur Auto Cluster, a section 25 company, has been set up by the project beneficiaries in Adityapur Industrial Area to develop the project under this scheme with active support of Gol and the state government. The site for the proposed facility has been selected at village Dugni, Tehsil Saraikella District Saraikela Kharsawan. The facility will consist of unit for treatment & recycling of waste/ used oil, incineration of organic wastes, and secured land fill for landfillable wastes. The waste will be collected in special containers and transported from units to facility by specially designed trucks. Collection of wastes from units and their transportation will be responsibility of facility operator.

As per EIA Notification 2006, this type of projects requires prior environmental clearance from MOEF, Govt. of India. For this purpose the project proponent submitted Form-I with pre-project feasibility report to MOEF for determination of Terms of Reference for environmental study. The presentation for the Project was made by M/s Crystal Consultants, Ranchi to the EAC for Building Construction, Coastal Regulation Zone, Infrastructure Development and Miscellaneous projects in its 106 th meeting held on 17 – 18<sup>th</sup> October 2011 MOEF. The project was examined by EAC and they issued TOR's vide MOEF letter No F.No. – 10.84/ 2011-IA-III dt 23.11.11. This included conduct of Public Hearing.

  
21/2/2014









EIA/ EMP was prepared in compliance to TOR. The Draft EIA/ EMP was submitted to Jharkhand State Pollution Control Board for public consultation/ public hearing. Public Hearing was conducted on 10.06.2012. The participants in Public Hearing gave their consent for setting up the facility as proposed. On completion of Public Hearing, final EIA/ EMP report was been prepared and submitted to MOEF for grant of Environment Clearance. The Report was presented by M/s Crystal Consultants, Ranchi before the EAC for Building Construction, Coastal Regulation Zone, Infrastructure Development and Miscellaneous projects in its 118th meeting held on 8th – 9th November 2012. During the discussion, the following points emerged:

- i. The Committee noted that the site adjacent to the river. Proponent shall revise the layout leaving 500 m from the river and submit
- ii. Submit layout on latest google
- iii. Inventories the type and quantity of the industries in the surrounding and provide proposed quantities of the waste receipt vs viability of the project
- iv. MoU of the agreement between the operator on PPP basis and the developer.
- v. Guideline of CPCB should be adopted for selection of site
- vi. Contour map along with the drainage map should be provided

In view of the foregoing observations, the committee recommended to defer the proposal and decided that the proposal shall be reconsidered after the above observations are addressed and submitted. The PP submitted the replies to above points vide their letter No AAC/18/05-13 dated 26th May 2013 to MOEF. As informed by PP they had followed up the matter with MOEF and based on the interaction, they had submitted a detailed reply to MOEF vide their letter No AAC/ 06 /09-2013 dated 9th September 2013.

Subsequently the file was forwarded to SEIAA, Jharkhand by MOEF vide it's letter No F.No. – 19-108/ 2012-IA-III dt 5th September 2013 for consideration of SEIAA Jharkhand.

The proposal came up for deliberation in SEAC's meeting in December 2013 wherein replies to above points were presented. The Committee asked the M/s Crystal Consultants, Ranchi about the status of their accreditation with NABET/QCI. M/s Crystal Consultants, Ranchi informed that their accreditation was withdrawn and at present it was under consideration / process. Committee asked them to submit their details in this regard and requested PP to bring an accredited Consultant in this area for presentation. During the presentation PP submitted that the stream flowing is not a River but a lower level stream Nadi and the site has been selected after giving due consideration to the site selection criteria framed by CPCB. Considering the issues and associated factors it was decided that a team of Shri A. K. Saxena Chairman, SEAC and Shri S K Singh Member, SEAC visit site to have an idea of the same. The team visited site on 10.01.2014. The site visit Report is attached along with this note.

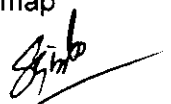
During the site visit it was noted that there is 70 acre plot of Government land in which the Hazardous Waste Management Facility is to be located. The plot is bounded by Sona Nadi on one side (which flows all along this plot). PP in Form 1 has mentioned that an area of about 20 acres is required for setting up of the Hazardous Waste Management Facility. PP was asked to demarcate this area on the plot so that the distance of landfill from Sona Nadi can be ascertained. Sona Nadi is a tributary of River Kharkai which ultimately meets River Subarnrekha. These two rivers are used for meeting the drinking water requirements of Jamshedpur and other smaller towns after conventional treatment. PP vide his letter no AAC / 16 / 01-14 dated 28th January, 2014 has submitted that the proposed site meets the conditions stipulated in CPCB Guidelines (Criteria for Hazardous Waste Landfills – published in February 2001). As per the map

  
21/2/2014









submitted the landfill will be developed in three phases (phase 1 – 14 years life, phase 2 - 8 years life and phase 3 - 5.5 years life). The distance of landfills are 257m for phase 1, 227 m for phase 2 and 227 m for phase 3. The landfill will have a height of 12 m above ground level and depth of about 3 m below ground level. PP has also submitted a letter No 1514 dated 02.09.2013 from Chief Engineer Water Resources Department, Ranchi wherein it is stated that the above site is safe from flooding and does not fall under flood plain of the adjoining stream.

As asked by the SEAC team during site visit. PP has also submitted a copy of letter from Uttar Pradesh State Pollution Control Board whereby they had granted NOC for setting up Hazardous Waste Management Facility at Kumbhi, Kanpur. It has been informed by PP that the distance of the Hazardous Waste Management Facility is about 100 m from River Sengur. A google map of the facility alongwith a CAD drawing has been submitted by them showing the facility. It is learnt from them that the facility is in construction stage.

SEAC went through the presentation / replies to the queries raised by MOEF and deliberated on the same. In this regard it was observed that this is a linked project i.e Common Effluent Treatment Plant (CETP) for auto cluster has already been given EC by SEIAA, Jharkhand (in this case the file was forwarded by MOEF for consideration of SEIAA, Jharkhand). The sludge from this CETP has to be disposed in this Hazardous Waste Management Facility. It was also noted from PP's letter no AAC / 16 / 01-14 dated 28<sup>th</sup> January, 2014 that the proposed site meets the conditions stipulated in CPCB Guidelines (Criteria for Hazardous Waste Landfills – published in February 2001).

Regarding accreditation of consultants in the previous meeting it was suggested to PP to bring an accredited consultant in this area for presentation. PP vide this letter no AAC/18/01-2014, dated 29.01.2014 informed the status of accreditation of M/s Crystal Consultants who was earlier by MoEF to present TOR and also the EIA/EMP Report. PP has also submitted that the though OM no J-11013/77/2004IA-II (I) dated 30/06/2011 only accredited Consultants will be allowed to appear before EAC / SEAC for cat for which they are accredited after 30/09/2011. How are the Draft Gazette Notification dated 19/07/2013 is still in draft stage. PP pleaded that in the joint meeting of SEIAA & SEAC, Jharkhand held on 24<sup>th</sup> Sept. 2013 for CEPT, M/s Crystal Consultants were allowed to present the case as MoEF had not objected to the presentation made by them. Considering that this case was similar SEAC allowed / agreed to the request made by PP.

The PP had earlier at the time of presentation of MoEF not presented the exact location of landfill and its distance from the bank of Sona Nadi. It was noted that PP has yet to get NOC from AAI regarding site for which he has applied. Also PP has not obtained Consent to Establish from JSPCB. Pending this EC cannot be recommended. These points were made at the time of site visit.

Creation of Hazardous Waste Management Facility is needed for development of Auto Cluster at Adityapur. The site prima facie fulfills the conditions stipulated by CPCB. The land for the site selected is Govt. land. Other adjacent land is (plot/site) rayati land which in present context is difficult to acquire. Since NOC from AAI is awaited and also Consent to establish is to be obtained by PP from JSPCB it is suggested that SEIAA may seek clarification regarding shifting of site by 500 m from MOEF either through letter or through discussions.

*Recd*

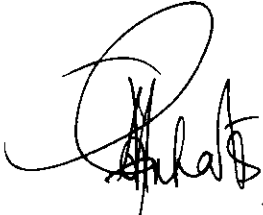
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Based on the inputs provided by PP, presentations made, documents submitted by PP and a similar facility being set up at Kanpur at a distance of about 100 m from River the SEAC feels that permission for establishment of the Hazardous Waste Management Facility at proposed site may be considered by SEIAA. However recommendation for EC can only be made once PP provides information as mentioned in Site visit Report, NOC from AAI and Consent to establish from JSPCB.


  
21/02/2014  
(Prof. (Dr.) M.C. Mahata)  
Member

  
(Prof (Dr) Shatrunjay Singh)  
Member

  
(S.B.S Chauhan)  
Member

(Er S K Singh)  
Member

  
(Dr. R.P. Singh Sangu)  
Member

  
(Dr. M Mahto)  
Secretary  
21.02.14

  
(A K Saxena)  
Chairman



**Site Visit report of Hazardous Waste Disposal Facility at Village Dungi, District Saraikela Kharaswan .**

As per decision taken in SEAC – meeting held from 26<sup>th</sup> to 29<sup>th</sup> December 2013 it was decided to visit the proposed site for the establishment of Hazardous Waste Management Facility being set up at Dungi, District Saraikela Kharaswan, Jharkhand by M/s Aditaypur Auto Cluster (AAC). Accordingly proposed site was inspected on 10.01.2014 by SEAC team, having its member as follows –

1. Shri A.K. Saxena, Chairman, SEAC
2. Shri S.K. Singh, Member, SEAC

In addition to SEAC Members – following officials were also present – during inspection of site.

1. Shri R.K. Sinha – MD, AAC
2. Shri S. Kumar – Crystal Consultants
3. Shri S.B Singh – Crystal Consultants
4. Shri P.K Singh - Secretary, AAC
5. Shri Raja – Senior Manager JINFRA

The EIA / EMP Report in respect of Hazardous waste management facility was presented by M/s Crystal Consultants, Ranchi before the EAC for Building Construction, Coastal Regulation Zone, Infrastructure Development and Miscellaneous projects in its 118<sup>th</sup> meeting held on 8<sup>th</sup> – 9<sup>th</sup> November 2012. During the discussion, the following points emerged:

- i. The Committee noted that the site adjacent to the river. Proponent shall revise the layout leaving 500 m from the river and submit
- ii. Submit layout on latest google
- iii. Inventories the type and quantity of the industries in the surrounding and provide proposed quantities of the waste receipt vs viability of the project.
- iv. MoU of the agreement between the operator on PPP basis and the developer.
- v. Guideline of CPCB should be adopted for selection of site
- vi. Contour map along with the drainage map should be provided

During the meeting of SEAC held in December (26<sup>th</sup> to 29<sup>th</sup>) M/s Crystal Consultants alongwith PP (AAC) made a presentation and covered the above points. Out of aforesaid 6 points the committee felt that the distance of River from proposed Hazardous waste disposal site is the most critical parameter. M/s Crystal Consultants also presented a table giving the reasons for selection of site which has been finalized on the basis of the ranking system stipulated by CPCB.

The observations of committee after site inspection and subsequent discussion held with management of AAC and their team are as follows –



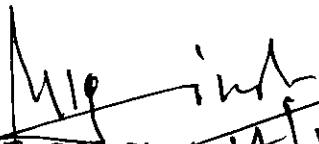
1. The proposed site of landfill for Hazardous waste is adjacent to river SONA NADI – which is tributary of River Kharkai. River Kharkai which meets River Subarnrekha at a distance of 7 to 8 km as informed by local people. River Subarnrekha is life belt of Jharkhand. This river is source of water supply in the region. During site inspection – the representatives of AAC showed a map covering area of 70 acres for Hazardous waste disposal site. Representatives of AAC informed that nearly 20 acres of land is required for setting up the facility. The proposed land is Government land and is easily available for Hazardous waste disposal site. In this connection management was asked to submit exact requirement of land for setting up of Hazardous Waste Management Facility.
2. During inspection – it was also observed that presently – the proposed site of Hazardous waste management is being used for dumping of thermal power plant fly – ash and also for excavating the land for recovery of natural soil. The management was asked to do needful for stopping such activities for the protection of land for further degradation as well as for the protection of River – SONA NADI. The proposed site of Hazardous waste disposal – gently slopes towards river. At the boundary there is a steep fall. In such case in rainy season rain water mixed with fly ash will meet River water of Sona and will have adverse impact on river water venality.
3. On enquiry it was learnt that the proponent has not applied to JSPCB seeking consent to establish.
4. PP was asked to provide the following details duly authenticated. These are in line with guidelines published by Central Pollution Control Board in the Feb – 2001. After this publication – no other publication is available on the website of CPCB.
  - i. Distance of landfill site from notified habitated area.
  - ii. A certificate from concerned Govt – dept – regarding flood plain – covering 100 years record.
  - iii. Distance of State or National Highway from the proposed landfill side.
  - iv. Distance of wetlands if any.
  - v. Arial Distance of landfill site from Air ports. In this connection – a “No objection” certificate is required from regulatory authority (AAI).
  - vi. Distance of water supply well in the radius of 500M from landfill site.
  - vii. Ground water table at the landfill site. In this connection a certificate is required from state Ground water Authority or Central Ground water Board.
  - viii. Distance of lake or pond in the radius of 200M from the landfill site. In this connection a certificate from local body is required by PP.
5. PP was asked to submit – contour map of the site with drainage map and details of landfill locations with distance of same w.r.t. Sona Nadi.
6. It was noted that PP has submitted the details of Hazardous waste generated from various Industries – which are concerned to Hazardous waste disposal site.
7. On query PP informed that MOU of the agreement between him and operator will be done after obtaining. EC form SEIAA – Jharkhand.




PP has informed that Uttar-Pradesh State Pollution Control Board has granted NOC for settling up Hazardous Waste Management Facility at Kumbhi, Kanpur. It has been informed by PP that in this case the distance of the landfill site is about 100 M from River Sengur. In this connection -- SEAC Members feels that -- Environmental conditions may ~~be~~ differ in both the cases.

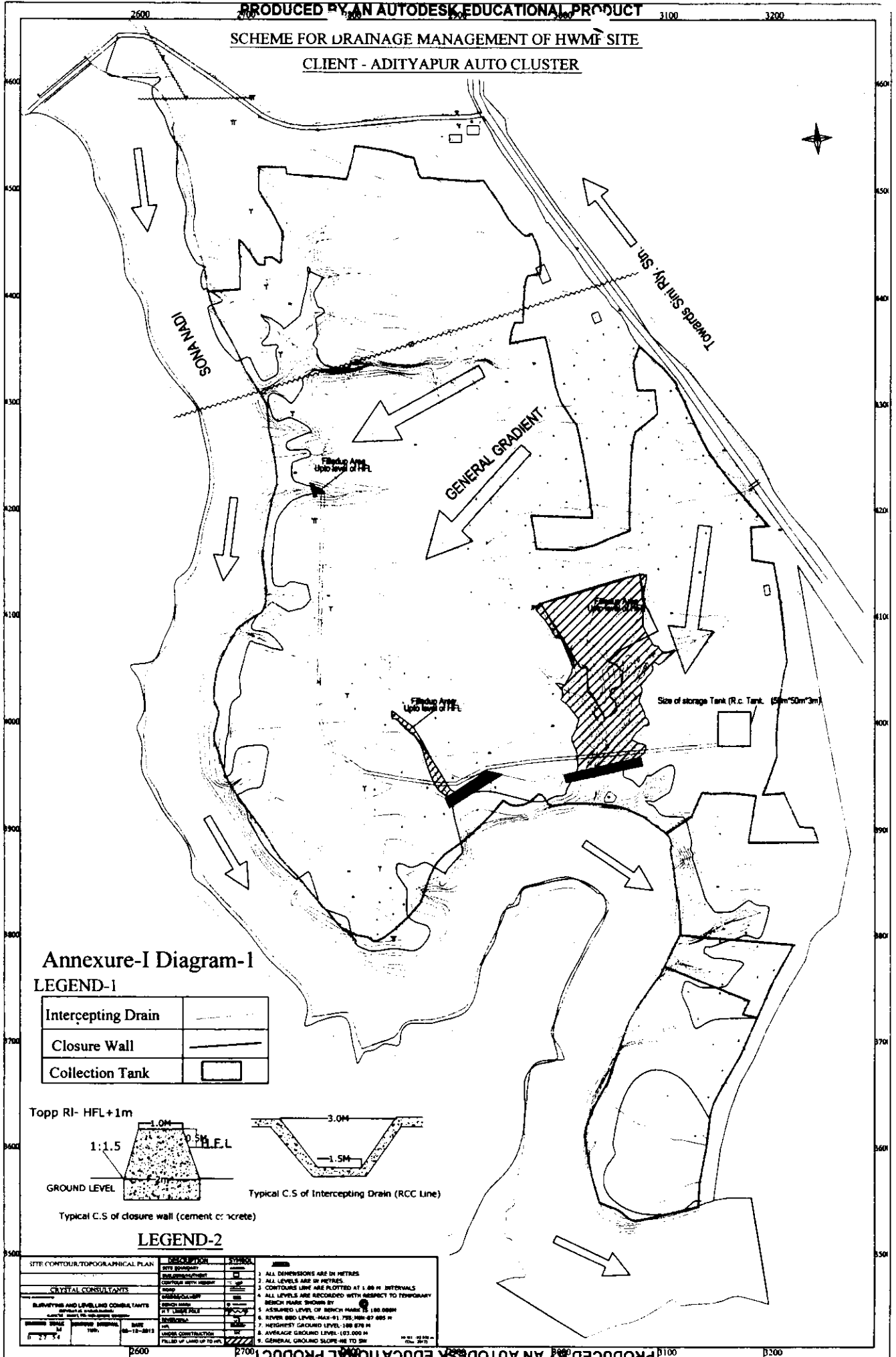
There is no Hazardous Waste Disposal site exiting in Jharkhand State. This project will be very much useful for the State of Jharkhand.

Looking to above facts - the matter may be discussed in detail in the next SEAC meeting and technical appraisal report based on inspection report and facts available in EIA report must be conveyed to SEIAA for further needful action at their level. The map of proposed landfill site is enclosed for further needful action.

  
Er. S.K. Singh 14/1/2014  
Member, SEAC,  
Jharkhand.

  
Er. A.K. Saxena 14/1/2014  
Chairman, SEAC,  
Jharkhand.

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT  
 SCHEME FOR DRAINAGE MANAGEMENT OF HWMF SITE  
 CLIENT - ADITYAPUR AUTO CLUSTER



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

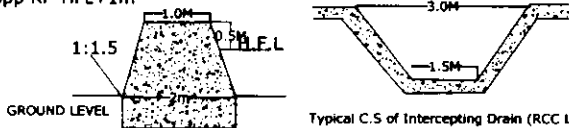
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Annexure-I Diagram-1

LEGEND-1

Intercepting Drain	
Closure Wall	
Collection Tank	

Topp RI- HFL+1m



Typical C.S of closure wall (cement concrete)

Typical C.S of Intercepting Drain (RCC Line)

LEGEND-2

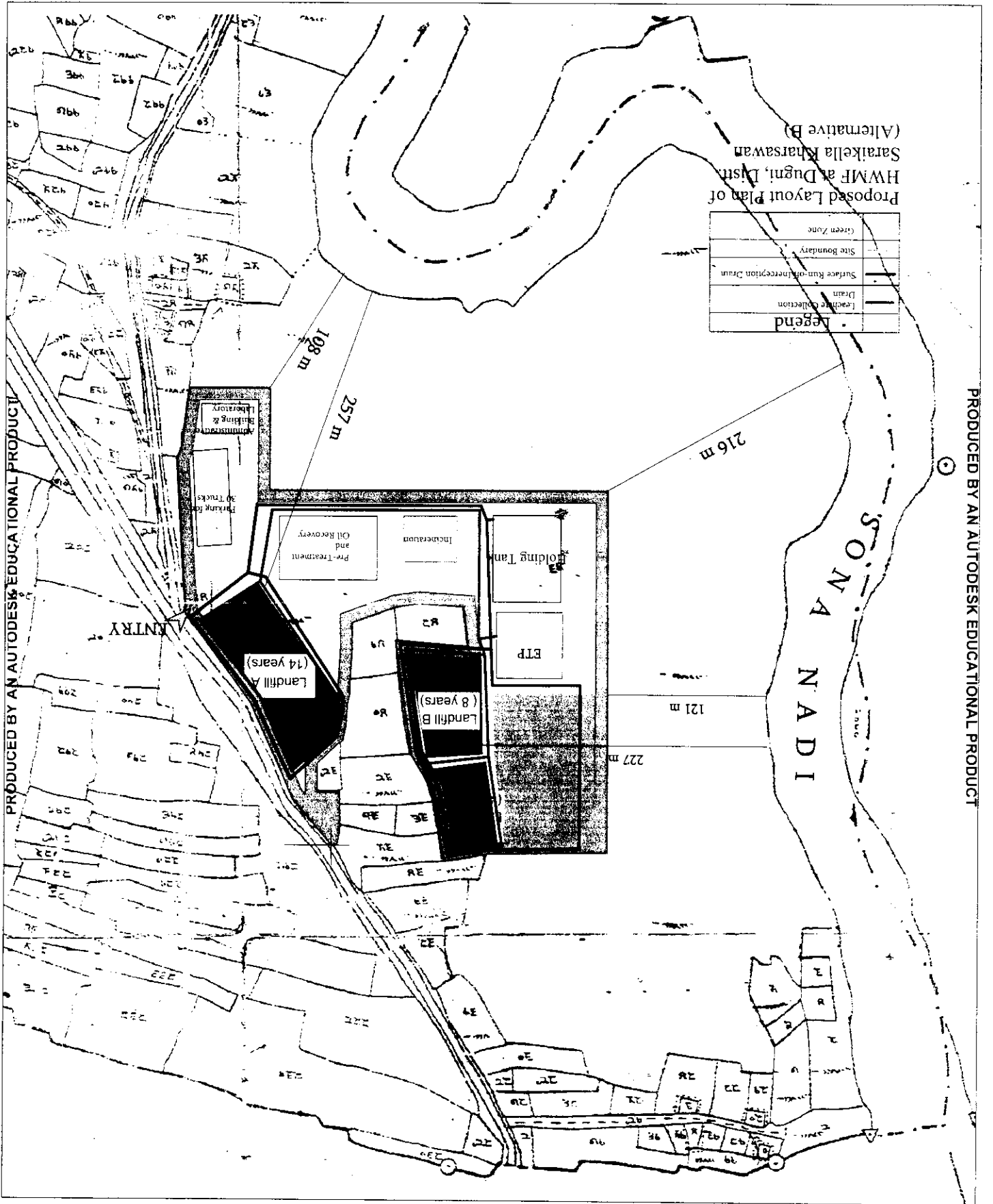
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SITE CONTOUR/TOPOGRAPHICAL PLAN		SITE BOUNDARY
	INTERSECTING DRAIN		CLOSURE WALL
	COLLECTION TANK		BENCH MARK
	SURVEY STATION		LEVELING CONTROL POINT
	PROPOSED ROAD		PROPOSED DRAIN
	PROPOSED CHANNEL		PROPOSED EMBANKMENT
	PROPOSED STRUCTURE		PROPOSED FILLING

1. ALL DIMENSIONS ARE IN METRES
2. ALL LEVELS ARE IN METRES
3. CONTOURS ARE PLOTTED AT 1.00 M INTERVALS
4. ALL LEVELS ARE RECORDED WITH RESPECT TO TEMPORARY BENCH MARK SHOWN BY
5. ASSUMED LEVEL OF BENCH MARK IS 100.000M
6. REVER. B.M. LEVEL - MAX-91.755, MIN-97.085 M
7. HIGHEST CALCULATED LEVEL- 100.070 M
8. AVERAGE GROUND LEVEL- 102.000 M
9. GENERAL GROUND SLOPE-N/E TO S/W



Proposed Layout Plan of  
HWMF at Dugni, Distt.  
Sataikella Kharsawan  
(Alternative B)

Legend	
	Green Zone
	Site Boundary
	Surface Run-off/Inception Drain
	Drain
	Leachate Collection



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### GENERAL NOTES

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE STATED.
2. THE COORDINATES INDICATED IN THE DRAWING IS TO BE VERIFIED PROPERLY BEFORE CONSTRUCTION.
3. DO NOT SCALE DIMENSIONS, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
4. ANY DIMENSIONS NOTED SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT PRIOR TO DISCREPANCY.
5. ROAD WIDTH SHOWN ARE INCLUDES OF KERBS & STORM WATER DRAINS SHALL BE CHECKED AS PER SITE SPECIFICATIONS.
6. SLOPE LEVELS INTERNAL 5 m & CONTOUR INTERVAL 1 m
7. MAX GRD LEVEL INTERVAL IS 100 m.

SCALE FOR KEY PLAN

NO.	DESCRIPTION OF UNIT	SIZE	QTY.	MC
1	SECURITY ROOM	6.00 x 4.00 m	1	RC
2	SCALE ROOM & WASH ROOM	6.48 x 3.48 m	1	RC
3	WASTE COLLECTION PLUMBING	7.25 x 1.75 m	1	RC
4	ADMINISTRATION CLM LAB BUILDING	20.40m x 18.48 m	1	RC
5	GENERAL STORES	10.53 x 13.23 m	1	RC
6	DA & ELECTRICAL PANEL ROOM	10.53 x 8.40 m	1	RC
7	FACTORYABLE WASTE STORES	40.48 x 28.48 m	1	RC
8	TOILET	4.08 x 3.42 m	1	RC
9	VEHICLE MAINTENANCE BAY	10.53 x 10.53 m	1	RC
10	FIRE FIGHTING STORES	12.23 x 18.23 m	1	RC
11	TEMPORARY WASTE STORES	18.23 m	1	RC
12	WASTE STABILIZATION UNIT	16.33 x 12.23 m	1	RC
13	INAPPROPRIATE WASTE STORES	24.33 x 24.33 m	1	RC
14	WATER TOWER	22.80 x 22.80 m	1	RC
15	TRUCK WASH	20.40 x 4.08 m	1	RC
16	TRUCK WASH	20.40 x 4.08 m	1	RC
17	LANDFILL CELL-01 (4.80 area)	18.23 x 18.23 m	1	RC
18	LANDFILL FACILITY AREA	18.23 x 18.23 m	1	RC
19	RECYCLING FACILITY AREA	18.23 x 18.23 m	1	RC
20	OCUPATIONAL HEALTH CENTER	4.48 x 3.48 m	1	RC

REV: REVISIONABLE APPROVED

DRAWN: CHECKED: APPROVED: QUANTITIES

LANDMAN: VICKER: GARDNER

CLIENT: UTTAR PRADESH WASTE MANAGEMENT PROJECT

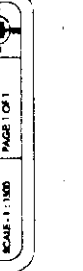
PROJECT: CHANGING EXISTING WASTE MANAGEMENT STRATEGY TO A STATE OF THE ART WASTE MANAGEMENT

DESIGN CONTRACTOR: MARKET BROTHERS ENGINEERS LIMITED

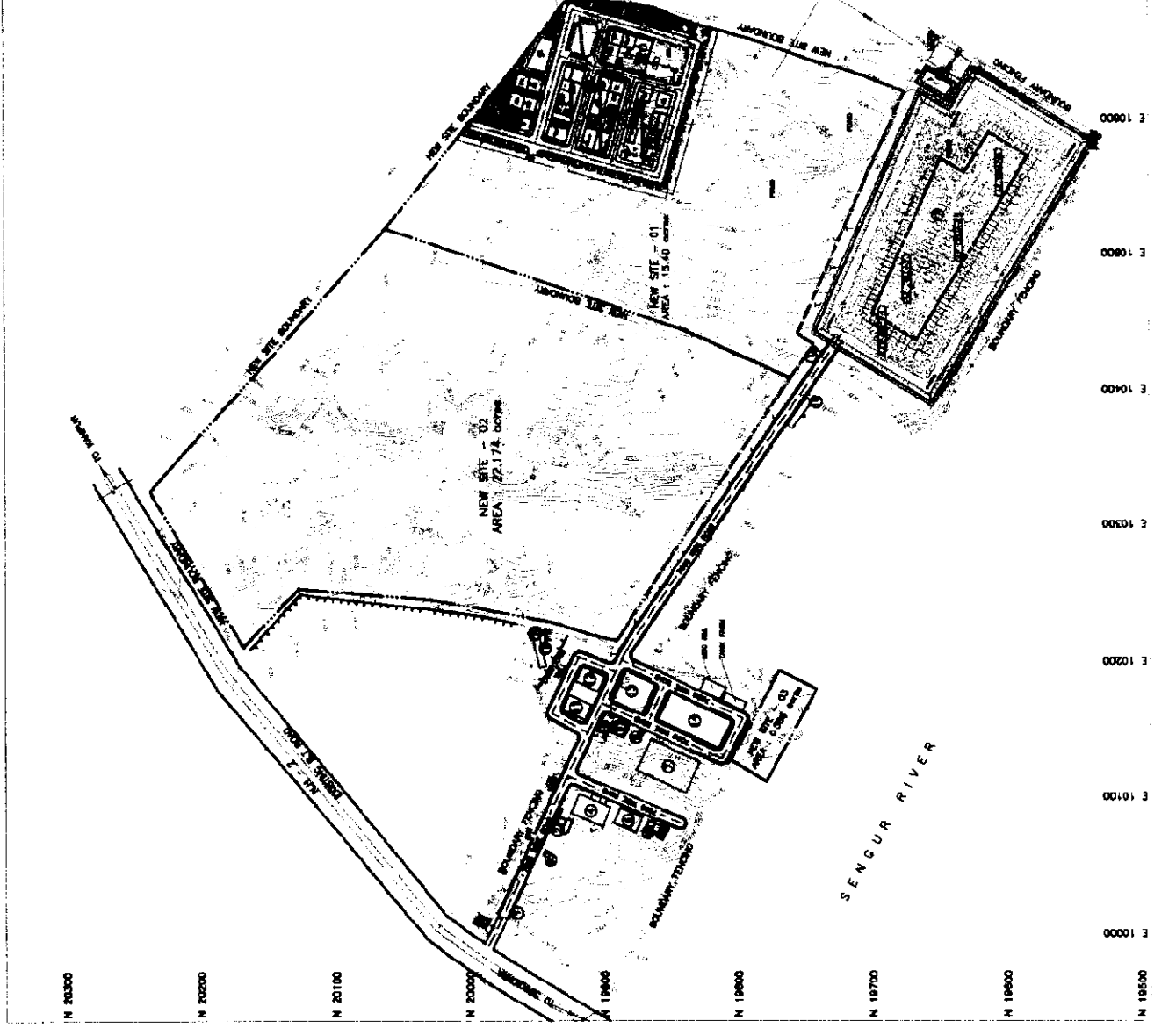
FILE: SCAFFOLD LAYOUT

DATE: 06/07/13 SHEET: A1

SCALE: 1:1100 PAGE: 1 OF 1



NO.	DESCRIPTION	AREA (sq. m)	PERCENTAGE
1	EXISTING TOTAL AREA	17,688	100%
2	NEW SITE AREA - 01	15,440	87%
3	NEW SITE AREA - 02	22,174	125%
4	NEW SITE AREA - 03	60,568	343%
TOTAL AREA		103,790	



SCALE FOR KEY PLAN

