

**MoEF, New Delhi: Environmental Clearance conditions for 3X660 MW,
Expansion Project at Koradi, Dist.- Nagpur.**

MoEF Condition No.	Condition	Status as on 31.12.2022
	MoEF Letter Ref. No. J- 13012/87/2007-IA. II (T) dtd. 04/01/2010.	
1	FGD with one unit of 660 MW will be installed initially to begin with and the requirement, if any, for the installation of FGD system with the other two units will depend upon the prevalent ambient levels of SO ₂ . Provision for installation of FGD in all units shall be made.	Partially Complied. Open tender RFx. 3000013388 was initiated on 04.11.2020. Same is cancelled. MSPGCL Board approved for retendering accordingly. Tender will be refloat in the month of January-2023.
2	Hydro-geological study of the area shall be reviewed annually & results submitted to the Ministry & concerned agency in the State Govt. In case adverse impact on ground water quantity & quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	Complied. A detailed report of Hydro geological investigation for 3x660 MW Koradi project has been carried out. Analysis of Ground Water is carried out periodically. The parameters are within desirable range.
3	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ rivers even in lean season. It shall be ensured that natural drainage in the region is not disturbed due to activities associated with operation of the plant.	Complied. The 3X660 MW Koradi Project was installed on the land available with MAHAGENCO. The natural drainage system available on this land was not disturbed and Koradi TPS, 3X660 MW has constructed and commissioned its own independent system for trade and sewage effluent.
4	Tri-Flue stacks of 275 m height each shall be provided with continuous online monitoring equipment's for SO _x , NO _x & PM. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	Complied. One stack with three flue cans of 275 meters height is provided. Continuous Online monitoring system for PM, SO ₂ , NO _x for Unit-8, 9 & 10 is commissioned and connected to CPCB & MPCB servers on 10.05.2017. Exit velocity & mercury emission is monitored regularly for all three units. However, it is to inform that exit velocity factor is load dependent and hence during partial load the velocity remains below 22 m/s. Whereas, during full load operation or units operating at more than 70% PLF, the exit velocity will remain more than 22 m/s.
5	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complied. High efficiency ESPs are installed at all three Units with design efficiency 99.9 % for particulate emission not more than 50 mg/Nm ³ .

6	Adequate dust extraction system such as cyclones/ bag filters & water spray system in dusty areas such as in coal handling & ash handling points, transfer areas & other vulnerable dusty areas shall be provided.	Complied. At Coal Handling plant 02 Nos. of mist type fogging systems are commissioned at both the stack yards & are operated as per requirement. The dust suppression system at all transfer points is in service. Also, the work of dust extraction & ventilation system is under process. DFDS system is installed at site to control coal dust. Additional spray system in CHP area is installed to prevent dust. Fire quenching line erected in stack yard to control fire in coal yard. To arrest the ash in ash handling plant following actions are taken: - Ensure 100% availability of vent fans - Monthly cleaning of ash filter bags. - Ensuring optimum efficiency of filter bags purging system through regular routine check. - Quarterly replacement of filter bags in each intermediate silo. - Attending fly ash conveying pipelines leakage on priority and replacement of wear out portion of pipelines. - Regular water sprinkling on nearby roads is carried out periodically.
7	Utilization of 100% fly ash generated shall be made from 4 th year of operation of the proposed expansion. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	In Process. Ash utilization for the year 2021-22 was about 81%. TPS is taking various efforts to achieve the 100% ash utilization. Action plan is prepared.
8	Fly ash shall be collected in dry form & storage facility (silos) shall be provided. 100 % fly ash utilization shall be ensured from 4 th year onwards. Unutilized fly ash shall be disposed off in the slurry form. Mercury & other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Complied. A temporary arrangement is made for disbursement of dry fly ash utilization from intermediate/ HCSD silo no. 1. Provision of three Remote silo is also made for dust free loading of ash in bulkers. Unutilized ash is disposed off by HCSD system in Khasara ash bund. Heavy metals are monitored regularly in effluent of ash bund through MoEF&CC approved lab. PP is taking all efforts for 100% ash utilization.
9	Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety shall also be implemented to protect the ash dyke from getting breached.	Partially Complied. Koradi TPS is using Khasara Ash Bund for ash disposal, Khasara Ash bund is live hence the work of HDPE & LDPE lining cannot be taken up in hand. Koradi TPS has also requested to MoEF & CC to amend EC conditions for HDPE/LDPE lining to ash bund, as before obtaining EC, Koradi project has submitted EIA as a standard procedure wherein it was informed to the ministry about presence of active ash bund and TPS shall dispose off ash to live bund after commissioning of project. Hence it was understood that any lining to the peripheral area of bund is not possible being a live bund. However, following measures are taken to maintain the bund: - Bund is in service since 3 decades during period sufficient compaction is already taken place, hence possibility of leaching is minimal. This has been established by Ground water analysis report. - As the pH of ash pond water is alkaline (8.2-8.5) in nature and hence leaching of heavy metals from it is not envisaged. - Stone pitching is done at inner slope of dyke wall.

		d) Decanted water is being recycled and reutilized in plant. Bund water is recovered through available weir & drain wells. e) However, proper maintenance of ash bund is done to avoid any breaching of bund.
10	For disposal of bottom ash in abandoned mines (if proposed to be undertaken) it shall be ensured that the bottom & sides of the mined out areas are adequately lined with clay before bottom ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	Complied. Koradi TPS, 3X660 MW is trying to follow all the directions issued time to time. As per CPCB letter no. B-33014/07/2020/IPC-II/TPP/7704 dtd 30.09.2020, CPCB forwarded list of abandoned mines for backfilling purpose identified by Taskforce of MoP to state PCB's out of which 3 mines are of WCL situated in Maharashtra i.e. Talwasa OC, Dholwasa OC, Naveen Kunada OC are situated in Chandrapur district and not nearby Koradi TPS.
11	Closed cycle cooling system with natural draft cooling towers shall be provided. The effluents shall be treated as per the prescribed norms.	Complied. Closed cycle cooling water system comprising of Natural Draft Cooling Tower is installed and in service for unit 8, 9 & 10. The effluent from blow down is treated through ETP as per norm and reused for ash disposal.
12	The treated effluents conforming to the prescribed standards only shall be recirculated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangement shall be made that effluents and storm water do not get mixed.	Complied. In house ETP is installed and commissioned to treat trade effluents arising from power station premises. Work order for balanced work is placed. Currently treated effluent is reused within the plant for ash disposal purpose. Separate storm water drainages are constructed in plant premises.
13	A sewage treatment plant shall be provided & the treated sewage shall be used for raising green belt/plantation.	Complied. Two sewage treatment plants having capacity of 25 and 10 KLD are established and treated water is used for raising green belt / plantation.
14	Rainwater harvesting should be adopted. Central groundwater, Authority/ Board shall be consulted for finalization of appropriate rainwater technology within a period of three months from the date of clearance & details shall be furnished.	Complied. Rain water harvesting at 3 locations has been finalized and work is completed.
15	Adequate safety measure shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plan layout shall be submitted to the regional Officers of the Ministry.	Complied. Fire quenching line erected in stack yard to control fire in Coal yard.
16	Storage facility for auxiliary liquid fuel such as LDO/HFO & LSHS shall be made in the plant area in consultation with Departmental of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied. Oil handling plant is commissioned as per plan sanctioned by Explosive Department. License for oil handling plant is issued by Explosive department. LDO/ HFO is received from Oil India companies and use as received basis. Disaster management plan/ onsite emergency preparedness plan is prepared.
17	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells & constructing new piezometers. Monitoring around the ash pound area shall be carried out particularly for heavy metal (Hg, Cr, As, Pb) & records maintained & submitted to the Regional office of the Ministry. The data so obtained should be compared with baseline data so as to ensure that the ground water quality is not adversely	Complied. Three Nos. of Piezo wells has been installed at periphery of Khasara Ash Bund. However, analysis of Ground Water is carried out periodically through MoEF&CC approved laboratory. Recent ground water report is enclosed as Annexure.

	affected due to the project.	
18	Green Belt consisting of 3 tiers of plantations of native species around plant & at least 100 m width shall be raised. Wherever 100 m width is not feasible, a 50 m width shall be raised & adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate less than 70%.	Complied. During construction of Units Koradi TPS has taken massive tree plantation as a social obligation. Available open land for plantation is 400.44 Hectare, Total area covered under plantation is 270.40 Hectare. Percentage of area covered under plantation is 67.52%. Total progressive no. of trees planted upto 31.03.2022 is 5,96,227. PP has engaged M/s National Environmental Engineering Research Institute, Nagpur since February-2018 for development of Bamboo green belt for dust suppression at TPS premises using Eco-rejuvenation technology. 10,000 Nos. All three units of Koradi TPS, 3X660MW are constructed on the available land, additional land is not acquainted for units. Being an expansion project the green belt is actually developed on the land available with MAHAGENCO. Being already existing plant with infrastructure and residential colony, ample plantation/ green belt has already occupied nearby area. 100m / 50m width plantation is not available at periphery of KTPS as it is surrounded by existing National Highway, temple and villages. However, tree plantation at ash bund area is proposed for compliance of EC condition of 3 tier tree plantation. 40,000 trees to be planted in next 3 years around plant area including bund, same is to be proposed.
19	First aid & sanitation arrangements are to be made for the drivers & other contract workers during construction phase.	Complied. First aid & sanitation arrangements were made for the drivers & other contract workers during construction phase. Now, construction phase is over and all three units are commissioned.
20	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric records & for treatment for any hearing loss including shifting to non-noisy/ less noisy area.	Complied. Acoustic enclosures are provided to high noise generating auxiliaries. Sound proof cabins are provided for staff working in high noise area. Personal protective equipments are provided to staff and contractor labors. Regular medical checkup is arranged by Colony hospital for audiometric examination.
21	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM (PM ₁₀ & PM _{2.5}) & Hg shall be carried out in the impact zone & records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations shall be decided in consultation with SPCB. Periodic reports shall be submitted to the regional Office of this Ministry. The data shall also be put on the website of the company.	Complied. KTPS Koradi, 3X660 MW, is carrying out ambient air quality monitoring twice in week at three different locations approved by SPCB. Three CAAQMS are installed around the premises of 3X660 MW Koradi at various locations as approved from SPCB. CAAQMS connectivity to SPCB server is established, Data is available through online connectivity with MPCB server. CAAQMS connectivity to CPCB server is under process. Koradi TPS is regularly carrying out GLC study, recently carried out in Oct- 2022 for PM, SO₂ & NO_x emission. The concentrations of pollutants predicted by Industrial source Complex (ISCST3) Dispersion model at various locations are well within limit.
22	A good action plan for R & R (if applicable) with package for the project affected persons be submitted & implemented as per prevalent R & R policy within three	Complied. As no land is required, R & R policy is not applicable

	months from the date of issue of this letter.	to this project. No land was required for Koradi Expansion Project, same is mentioned in initial TOR issued for 2X800 MW and same is applicable to TOR of 3X660 MW.
23	An amount of Rs. 20 Crores shall be earmarked as per time capital case for CSR program. Subsequently a recurring expenditure of Rs.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be along with road map for implantation.	Complied. Impact Assessment of implementation of CSR action plan adjoining villages of TPS had been carried out. The activities undertaken by Mahagenco with capital cost of Rs. 20.00 cr. are completed.
24	As part of CSR program the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such community development activities & income generating program. This will be in addition to vocational training for individuals imparted to take self-employment & jobs.	Complied. The work orders for Bamboo plantation at Mahagenco's land were issued to the agency which is helping in upliftment of poor section of society.
25	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Complied. Already provided during construction phase. Provision were made for the housing of construction labour within the site along with all necessary infrastructure & facilities. As of now, construction phase is over and all three units are commissioned.
26	The project proponent shall advertise in at least two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance & copies of clearance letter are available with the State Pollution Control Board/ Committee & may also be seen at Website of the Ministry of Environment & Forest at http://envfor.nic.in .	Complied. PP had advertised its accordance of environmental clearance in newspaper.
27	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad /Municipal Corporation, Urban Local Body & the Local NGO, if any, from whom suggestions/ representation, if any, received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. PP had sent clearance letter to Panchayat, Zila Parishad /Municipal Corporation, Urban Local Body. The EC of the project proponent was available on MoEF website along with the minutes of EAC. Also, as per new guidelines of MoEF&CC the project proponent shall upload the EC conditions on 'Parivesh' portal, same will be done.
28	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. PP has set up the Environment Management cell. The organogram of staff available at Environment Management Cell is prepared.
29	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB. The criteria pollutant levels namely RSPM (PM10 & PM 2.5), SOx, NOx, (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Complied. Yes, compliance to EC conditions are regularly submitted to respective authorities by PP. Also, as per new guidelines of MoEF&CC the project proponent shall upload the EC conditions on 'Parivesh' portal. Monitoring of ambient air quality parameters is carried out regularly. The reports are submitted to regional office of SPCB. Compliance of the stipulated EC conditions sent to the Regional Office of MoEF through mail.

		Electronic display board at entrance gate for display of CAAQMS & stack parameters is provided. Connectivity of three CAAQMS stations with SPCB server is established and registration for connectivity with CPCB server is also completed.
30	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored date (both in hard copies as well as by e-mail) to the respective regional office of MoEF, the respective Zonal Office of CPCB & SPCB.	Complied. Yes, compliance is same as per Sr No: xxix.
31	The environment statement for each financial year ending 31 st March in Form-V as mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions & shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Complied. Environment statement in Form-V of 3X660 MW Koradi for FY 2020-21 is submitted online.
32	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment & Forests, its regional Office and Central Pollution Control Board & State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website & update the same periodically & simultaneously send the same by e-mail to the Regional office, Ministry of Environment & Forests.	Complied. Yes, compliance is same as per Sr No: xxix.
33	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report & Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional office for their use during monitoring. Project proponent will up load the compliance status in their website & update the same from time to time at least six-monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	Complied. As per point No. xxix. Criteria pollutant levels displayed at TPS main gate.
34	Separate funds shall be allocated for implementation of environment protection measures along with item wise break up. This cost shall be included as part of project cost. The funds earmarked for environment protection measures shall not be diverted for other purposes and year wise expenditure shall be reported to the ministry.	Complied. Yearly expenditure on Environmental protection measures is submitted to SPCB through yearly Environment statement.
35	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure & final approval of the project by the concerned authorities & the dates of start of land development work & commissioning of plant.	Complied. Date of approval of Project: 18/01/2008. The dates for Land development work were informed during the initiation phase of the project and subsequently the dates of COD for respective units are also intimated to MoEF&CC accordingly. Regarding date of financial closure, it will be intimated after compliance of EC conditions. Date of comm. /COD: U-8: 16/12/2015, U-9: 22/11/2016, U-10: 17/01/2017.
36	Full co-operation shall be extended to the Scientist/ Officers from the Ministry/ Regional office of the Ministry at Bangalore/CPCB/SPCB who would be monitoring the	PP has consented to condition.

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VILLAGE	SAMPLES	Temp.	pH	Residual free chlorine	TDS	TSS	Dissolved Phosphate (as PO ₄)	Fluoride(as F)	DO	BOD	COD	Oil & Grease	Fixed Dissolved	Free Ammonia	Total Kjeldahl Nitrogen	Cyanide (as CN)	Sulphide (as S)	Sulphate (as SO ₄)	Nitrate (as NO ₃)	Phenolic Compounds (as C6H5OH)	Bioassay Test	Iron (as Fe)	Copper (asCu)	Lead (as pb)	Zinc (as Zn)	Arsenic (as As)	Mercury (as Hg)	Chromium Hexa (as Cr ₆)	Nickel (as Ni)	Chromium Trivalent (as Cr ⁺⁺⁺)	Selenium(as Se)	Chromium Total(as Cr)	Cadmium (as Cd)	Manganese (as Mn)	Vanadium (as V)			
Panjara	Dugwell	28	8.0	BDL	284	BDL	0.205	0.538	6.4	4.9	16	N.D	190	BDL	0.5	N.D	N.D	61.0	4.43	N.D	Free From Acute lethal toxicity	0.223	N.D	0.142	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	
	Borewell	30	8.0	BDL	800	5.0	0.239	0.551	6.6	4.5	14	N.D	888	BDL	0.52	N.D	N.D	217	17.40	N.D	Free From Acute lethal toxicity	0.38	N.D	0.050	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL		
		28	7.9	BDL	588	5.0	0.184	0.602	6.5	5.7	14	N.D	481	BDL	0.672	N.D	N.D	146	7.93	N.D	Free From Acute lethal toxicity	0.334	N.D	0.081	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.24	BDL	
Mahadulla	Dugwell	30	7.9	BDL	614	BDL	0.162	0.528	6.2	3.2	12	N.D	505	BDL	0.728	N.D	N.D	65.2	22.00	N.D	Free From Acute lethal toxicity	0.465	N.D	0.102	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.36	BDL
	Borewell	27	7.9	BDL	468	BDL	0.14	0.542	6.4	4.8	16	N.D	381	BDL	0.616	N.D	N.D	58.4	29.80	N.D	Free From Acute lethal toxicity	0.275	N.D	0.063	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.26	BDL	
	Koradi	28	8.1	BDL	470	BDL	0.25	0.616	6.6	4.4	14	N.D	340	BDL	0.560	N.D	N.D	57.4	38.10	N.D	Free From Acute lethal toxicity	0.436	N.D	0.137	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.11	BDL	
Nanda	Borewell	27	8.1	BDL	478	8.0	0.107	0.505	6.4	4.3	14	N.D	381	BDL	0.45	N.D	N.D	40	32.80	N.D	Free From Acute lethal toxicity	0.334	N.D	0.139	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.00	BDL
	Dugwell	29	8.0	BDL	540	7.0	0.13	0.500	6.5	3.8	12	N.D	430	BDL	0.504	N.D	N.D	47.4	28.70	N.D	Free From Acute lethal toxicity	0.251	N.D	0.021	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.06	BDL	
	Borewell	26	8.0	BDL	744	BDL	0.17	0.528	6.6	4.5	14	N.D	608	BDL	0.62	N.D	N.D	110	40.00	N.D	Free From Acute lethal toxicity	0.250	N.D	0.105	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	
Suradevi	Dugwell	29	7.9	BDL	570	BDL	0.2	0.551	6.7	3.1	10	N.D	491	BDL	0.504	N.D	N.D	56.4	34.00	N.D	Free From Acute lethal toxicity	0.318	N.D	0.063	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	BDL
	Borewell	28	8.0	BDL	579	BDL	0.1	0.667	6.6	3.0	12	N.D	468	BDL	0.280	N.D	N.D	70	22.60	N.D	Free From Acute lethal toxicity	0.183	N.D	0.116	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.06	BDL	
	Dugwell	29	7.3	BDL	388	BDL	0.12	0.551	6.7	3.7	12	N.D	501	BDL	0.5	N.D	N.D	200	37.00	N.D	Free From Acute lethal toxicity	0.246	N.D	0.042	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.06	BDL
Mhasala	Borewell	29	7.9	BDL	760	BDL	0.132	0.727	6.5	4.4	14	N.D	601	BDL	0.616	N.D	N.D	120	29.50	N.D	Free From Acute lethal toxicity	0.232	N.D	0.113	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.04	BDL
	Dugwell	30	8.2	BDL	699	BDL	0.098	0.756	6.7	3.1	10	N.D	749	BDL	0.5	N.D	N.D	108	4.52	N.D	Free From Acute lethal toxicity	0.305	N.D	0.076	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	
	Khasara	28	8.0	BDL	994	BDL	0.12	0.568	6.7	3.8	12	N.D	870	BDL	0.62	N.D	N.D	136	44.30	N.D	Free From Acute lethal toxicity	0.232	N.D	0.094	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	0.06	BDL
Kavatha	Dugwell	29	8.1	BDL	705	BDL	0.16	0.694	6.5	3.1	10	N.D	609	BDL	0.560	N.D	N.D	120	29.70	N.D	Free From Acute lethal toxicity	0.173	N.D	0.170	0.018	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	BDL
	Borewell	28	7.6	BDL	735	BDL	0.09	0.648	6.6	3.7	12	N.D	603	BDL	0.560	N.D	N.D	128	10.20	N.D	Free From Acute lethal toxicity	0.217	N.D	0.147	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	BDL	
	Kharin	29	7.8	BDL	919	BDL	0.16	0.694	6.5	3.1	10	N.D	791	BDL	0.616	N.D	N.D	151	47.00	N.D	Free From Acute lethal toxicity	0.392	N.D	0.063	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	BDL
Average	Borewell	28.56	7.93	BDL	640.63	6.25	0.154	0.601	6.5	4.0	12.67	N.D.	538.2	BDL	0.551	N.D	N.D	105.1	26.7	N.D.	Free From Acute lethal toxicity	0.293	BDL	N.D	0.087	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	BDL	BDL	