DBO	DRA-BIPL JV Pvt. Ltd.	SEMP
Company Name	. DRA-BIPL JV Pvt. Ltd.	
Address	Geetanjali Enclave Lane-5, Mothrowala Near Doon University Banjarawala Dehradun	
Document Title	SITE SPECIFIC ENVIRONMENTA (SEMP)	
Client Name	Uttarakhand Urban Sector Development Agency (UUSDA)	
Package no.	WS&S-DDN-02	
Project Name	Development of Water Supply and Sewerage System involving tube wells, Over Head Tanks, Distribution network, STP, trunk sewer and allied works including 5 years Operation & Maintenance, at Banjarawala Package-02, Dehradun Uttarakhand	
Commencement date	•	

Date:

	Department / Designation	Name	Signature
Prepared by	Safety/EHS Officer, DBOC	Mr. Ashish Bhatt	Ashie
Reviewed by	Project Manager, DBOC	Mr Devndra Verma	De Sant
Accepted by (PMC) Approved by	Environment Specialist, DSC	Dr Sudhanshu Kaushik	George

(UUSDA)
Seeman DSC



सहायक अभियन्ता पी.आई.यू., यू.यू.एस.डी.ए. देहरादून

Vinay Wishra
Addi. Program Director (Technical)
UUSDA

stant Dahradun

DSC UUSDA Dehradun

Rajesh Bahuguna (IEC Officer) UUSD Dehradun





Site Specific Environmental Management Plan (SEMP)

Name of Sub Project Name of the Project – Development of Water Supply and Sewerage System involving TW, OHT, Distribution Network, STP, Trunk Sewer and Allied Works including Five Years Operation and Maintenance, at Banjarawala Package-2, Dehradun Uttrakhand

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1

INTRODUCTION

It is proposed to improve water supply, sewerage and storm water drainage systems in the subproject area to meet the present and growing demand and improve the service levels. Under water supply, it is proposed to develop additional water source (tube wells), treatment, pumping, and distribution facilities to provide 3.87 MLD of water to meet ultimate design year (2051) demand. Sewerage system will be provided in a combination of underground sewerage system and FSSM system. It is estimated that 3.19 MLD of sewage (2051) will be generated in the subproject area, collected via sewer network, and will be conveyed to proposed11 MLD STP to be developed under package 1 of this project. FSSM system will be in areas that are not fully developed at present and/or not feasible to provide sewer system (Dandi Village, Vishnupuram Colony, Shivkunj Colony and Mahalakshmi Puram Colony). An estimated 1.46 KLD of septage is generated from the FSSM, which will be disposed at existing Kargi STP, developed under the previous ADB funded Uttarakhand Urban Sector Development Investment Program (UUSDIP). Under the storm water drainage, new storm water drains with covers will be constructed alongside secondary municipal roads to collect, transport, and discharge the runoff safely during the rains. **Proposed subproject components** are:

(i) **Water supply**. (a) installation of tube wells (3 nos), (b) disinfection (chlorination) unit at the outlet of each tube well, (c) construction of two over-head tanks (OHT) of 650 kilolitre (kl) and 800 kl capacity, (d) installation of 60 kilometer (km) water supply network (100 - 450 mm diameter), (e) 1,950 new house service connections,

(f) rehabilitation of existing tube wells and OHT, and (g) SCADA and GIS systems (ii) **Sewerage**. (a) Installation of 45 km sewers (44 km, 225 - 355 mm diameter, and around 1 km 350-700 mm diameter) including 1,950 manholes, (b) 1,650 household sewer connections, and (c) FSSM system – septic tanks and mobile tankers with Suction and discharge arrangements for collection from septic tanks and convey to Kargi STP

(iii) **Storm water drainage**. (a) Installation of 30 km drains with precast covers (reinforced cement concrete, RCC), and (b) development of 10 groundwater recharge pits, and 2 rainwater harvesting structures,





Project Components

2







As per the proje	ct detailed design	
Package No. UIRUDP WS&S-DDN-03	UUSDA PIU- Dehradun	
Package Title	Uttarakhand Integrated and Resilient Urban Development Project – Development of Water Supply and Sewerage System involving Tube Well, Over Head Tank, Distribution Network, STP, Trunk Sewer and Allied Works including 5 Years Operation and Maintenance, at Banjarawala - Package 2, Dehradun, Uttarakhand	
Contractor	M/s DRA-BIPL(JV).	
Date of Contract Award	01-11-2021	
Date of works commenceme nt	01-12-2021	
Contract period	36 months	
Project Towns	Dehradun	
Project Description	O & M 60 months	
Project Components		
Town	Dehradun	
	A. Water Supply	







Water Supply			
Diameter (mm)	Material	Length (All Materials) (m)	
100	D1-K7	24008	
150		1553	
200		909	
100 mm – 450 mm dia	DI – K9	678 meters	

B. SEWERAGE

Conduit Description	Material	Length (All Materials) (m)
225 mm to 355 mm	HDPE	44034 meters.
350 mm – 700	DI	7.5-meter — 1393 meters

C. Sewage Treatment Plant

Nil







Details of Onsite Personnel and Workers

S.N.	Name of Personal	Designation	Phone Numbers	Numbers	Remarks
1	Mr. Devendra Verma	Project Manager	8953648939	1	
2	Mr. Shaheen Qureshi	Construction Manager	9660796600	1	
3	Mr. Ashish Bhatt	EHS Supervisors	7895331139	1	
4	Mr. Swaroop Bhattacharya	QA/QC Engineers	7617649246	1	
5	Mr. Nishant	Process Engineer	8307213430	1	
6	Mr. Devender Singh	Electro Mechanical Engineer	8529819796	1	
7	Mr. Kamal Soni	Hydraulic Engineer	7976343992	1	
8	Pradeep Kushwaha	Safety Engineer	7705905989	1	
9	Mr. Rohit Kumar	Trenchless Engineer	7337356056	1	
10	Mr. Ankush	Technical /Supervisory staff	8219450293	1	
	Mr. Subham		9559169849	1	
	Mr. Jigar Patel Mr. Vivek Chauhan		8849756877 7023114667	1	
	artha . V a 5 Code To de Co School Code		7022211007	4	
11	Mason/Fitter	Skilled/Semi - Skilled workers		20	9 6
12	Labour	Unskilled workers		50	
13	Labour	Workers-local		30	







Summary

The aim of this is to identify factors which may lead to environmental mental degradation during different construction phase of this project.

Key Features of Project

The subproject is primarily designed to improve environmental quality and living conditions of service area through provision of water supply and sewerage. The subproject aims to bring maximum benefit to people & environment through improved water supply, sewerage and storm water drainage systems. Improved sewerage and drainage systems will also significantly reduce the incidence of wastewater accumulation in the subproject area and hence reduce health risks to the citizens and improve the visual quality and landscape character of the area. Supervisory Control and Data Acquisition (SCADA) has been proposed for entire system of sewerage work. Storm water drains will be constructed alongside the roads in identified roads to facilitate smooth draining of storm water and Outfall structures shall be constructed at the end of storm water drains that discharge to Nalla (a small stream/river) and major water bodies. The successful implementation of the water supply project will result in better control over the NRW management, improved monitoring system and overall demand management along with energy reduction. There will be increased availability of potable water at appropriate pressure to all households including urban poor better public health particularly reduction in waterborne and infectious diseases.







Table : 1

Preconstruction Phase Environmental Management

Anticipated Impact	Mitigation Measures	Status of Compliance Yes/No
Unsatisfactory compliance to EMP	Environmental Health and Safety (EHS) Supervisor has been mobilized to carry out environmental safeguard tasks	Yes
Utilities on Sites (electric, telephone lines , water pipes etc)	Location of utilities and respective operators has been identified and measures to avoid damage/disruption will be implemented	Yes
Minimization /avoidance of tree cutting	There are no eco-sensitive or protected within proposed project activity areas. During drainage networks and sewer pipe laying works tree cutting is not envisaged as per design	
Construction materials	Construction materials will be obtained only from govt. approved quarries attached in annexure 1" All Clearance/license copies of	Yes
	quarries/borrow areas will be provided to PIU for prior approval • A monthly report will be submitted to PIU on construction material quantity	
Approvals/Permission, insurances, licenses etc. For construction work	 All necessary permissions will be obtained prior to start of works Copies of all permission/approvals will be -Submitted to PIU prior to start of work Letter written to PIU for road cutting permission (attached in annexure) 	Yes
Training to staff & workers	Staff and Key workers will be trained prior to start of work (attached in SEMP Annexure)	
Updation of IEE & SEMP	IEE updation on the basis of detailed design and will be submitted to the ADB for review prior to commencement of work	
EMP implementation training	The training related to EMP implementation have organized for all the key workers and project manager	10.00
Guidelines to be followed for establishing construction/labour camp	Camp sites shall be away from residential areas, sensitive areas 9 Schools, hospitals), etc.), water bodies and forests Provide a proper fencing/compound	AHMEDABAD





	Prepare a site layout pan & display at the site Use unused, vacant land, no trees will be cut Entire site / Facility area shall be provided with hard levelled surface as appropriate, no loose soil, slush, water logging etc Living Quarters and Construction camps shall be provided with standards materials, no shack or huts Adequate lighting and ventilation Provide drinking water, Water for other uses and sanitation facilities, drinking water should be regularly tested Provide clear pathways for safe movement Provide cooking fuel and a separate safe place to cook, fire wood not allowed	
	 Construct septic tanks and soak pit arrangement for wastewater disposal Solid waste should be properly managed-provide separate bins, compost biodegradable waste, Camp sites shall be cleared and restores to original after completion of work, all debris, wreckage cleared 	
Worker amenities at all worksites	A temporary rest area for workers /for resting in break time, protection against rain/sun etc. Drinking water, Toilets	40







Table 2 : Construction phase Environmental Management Plan

Anticipated Impact	Mitigation Measures	Status of Compliance Yes/No	
Irreversible impact To the environment workers and community	(i) Contractor is required to depute a qualified and experienced EHS officer/supervisor for monitoring of EMP implementation measures (ii) (ii) Project manager and all key workers will be required to undergo EMP implementation including Standard Operating procedures (SOP) for occupational health and safety (OH&S), core labor laws, applicable environmental laws, etc.	EHS has been deployed and EMP implementation training was also conducted to all the key workers	
Emissions from construction vehicles, equipment, and machinery usedfor installationof pipelines resulting to Dusts and	(i) Plan the work sites properly, and demarcate the sites for stockpiling of, soils, gravel, and other construction materials away from the traffic, vehicle, general worker movement to avoid disturbance of loose materials	Process initiated and the remedial measures are attached in SEMP	
Increase in concentration Of vehicle-related pollutants suchas carbonmonoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbon	(ii) Damp down exposed soil and any stockpiled material on site by water sprinkling; (iii) Use tarpaulins to cover sand and other loose material when transported by trucks; (iv) Clean wheels and undercarriage of haultrucks prior to leaving construction site (v) Don't allow access in the work area except workers to limit soil disturbance and prevent accessby barricading and security personnel (vi) Fit all heavy equipment and machinery withair pollution control devices which are operatingcorrectly, and limit idling time of construction vehicles to minimize local air pollution. Contractor's vehicles and equipment should compulsorily have PUC and submit to PIU before deployment at site (vii) Obtain, CTE and CTO for batching plant, hot mix plant, crushers etc. if specificallyestablished for this project. (viii) If contractor procures any material (such asready mix concrete, asphalt/macadam, aggregates etc.,) from third party agencies, contractor shall ensure that such agencies have all necessary	A AHMED A	Que RITU





	clearances / permissions as required under the law;these include CTE/CTO from UEPPCB, environmental clearance, etc.,; contractor shall collect the copy of these certificates and submit to PIU; PIU will approve the source only after all the certificates are submitted (ix) Conduct air quality monitoring according to the Environmental Management Plan (EMP).	
Works in rains/ Mobilization ofsettled silt materials, and chemical contamination from fuels and lubricants during installation of pipelines, and discharge of drilling fluid/mud During water well drilling can	(ii) Prepare and implement a spoils management plan (iii) Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets; (iii) Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PIU on designated disposal areas;	Complied as suggested as a part of SEMP
contaminate nearby surfacewater quality.	(iv) Inspect all the drainage at construction site/construction camp/labor camp etc. and clear allthe drainage lines so that no water stagnation/flooding may occur during heavy rainfall (v) As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accidentdue to it (vi) If open trenches are not avoidable during monsoon, keep ready all the mitigations measures to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. (vii) Inspect and verify all the emergency measures and emergency control system beforestart of monsoon, keep the emergency response committee on high alert during monsoon/heavy rainfall (ix) Install temporary silt traps or sedimentationbasins along the drainage leading to the water bodies;	
	(x) Place storage areas for fuels and lubricantsaway from any drainage leading to water bodies; (xi) Dispose any wastes generated by construction activities in designated sites; and (xii) Conduct surface quality inspection according to the Environmental	AHMEDAR





	Management Plan	
	EMP). (xiii) Drilling fluid/mud including cuttings from well drilling shall be contained and properly disposed bythe drilling contractor, to avoid affecting the quality of the nearby surface water.	
Contamination of ground waterquality due tospillage of oil and lubricants	 Prepare and implement a spills management plan; Provide impermeable liner on the ground and place layer of mortar or concrete over it in the oil and lubricants storage areas, provide spillage trap in oil and lubricant store, use dip tray and pump to pour oil from oil and lubricant drums; Dispose any oil contaminated wastes generated by construction activities in scientific manner; and Conduct ground water quality monitoring according to the Environmental Management Plan (EMP). 	Complied as suggested as a part of SEMP
Increase in noise and	(i) Plan activities in consultation with	Complied as
vibration levelsdue to	PIU/Consultant so that activities with the	suggested as a part
earth-moving and excavation equipment, and the transportation of equipment, materials, and people	greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; (ii) Horns should not be used unless it is necessary to warn other road users or animals of the vehicle's approach; (iii) Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor; (iv) Identify any buildings at risk from vibration damage and avoiding any use of pneumatic drills or heavy vehicles in the vicinity	of SEMP
Impacts due toexcess excavated earth, excess construction materials, and solid waste Such as removed concrete,wood, packaging materials, empty containers, spoils,oils,lubricants, andother similaritems.	(i) Prepare and implement spoils management plan (ii) Avoid stockpiling of excess excavated soils; (iii) Coordinate with ULB/PIU for beneficial uses of excess excavated soils or immediately dispose to designated areas; (iv) Recover used oil and lubricants and reuse or remove from the sites; (v) Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; (vi) Remove all wreckage, rubbish, or temporary structures which are no longer	suggested as a part of SEMP





Disruption of	required; and Request PIU to report in writing that the necessary environmental restoration work has been already performed before acceptance of work. (i) Obtain from PIU the list of affected	Complied as
Service and Damage to existing infrastructure at specified project location	utilities and operators if any; (ii) Prepare a contingency plan to include actions tobe done in case of unintentional interruption of service (iii) Inform the local community in advance if utilitieswill be disrupted during construction	suggested as a part of SEMP
Disruption of Service and damage to existing infrastructure atspecified project location	(iv) Obtain from PIU the list of affected utilities and operators if any; (v) Prepare a contingency plan to include actions tobe done in case of unintentional interruption of service (vi) Inform the local community in advance if utilitieswill be disrupted during construction	Will be complied as suggested
Loss of vegetation and tree cover	Minimize removal of vegetation and disallowcutting of trees; (ii) If tree-removal will be required, obtain tree-cutting permit from the concerned	As per revised alignment no tree is going to impact
	department; and (iii) Plant three native trees for every one that is removed	*
Hunting,fishing or harm to animals withinconstruction zone	Prohibit workers from poaching and fishing inriver and make awareness among workers If any animal or fish is entrapped during construction works, provide safe passage for them and do not harm them	To be complied
Environmental Issues due to land use change	The impact due to change in land use will benegligible due to this project.	NA
Traffic problem and conflicts nearproject locations andhaul road	i) Plan sewer line works to minimize traffic disturbance / blockades; as the sewer lines are to be laid in all the roads and streets in the town, workplanning is crucial to minimize the inconvenience topublic. (ii) Prepare and implement a Traffic Management Plan (ii) Duly consider and select sections for trenchless method of pipe laying based on traffic conditions (iii) Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites; (iv) Schedule transport and hauling activities during non-peak hours;	TMP included as a part of SEMP





	wherethere is low potential for traffic congestion; (vi) Keep the site free from all unnecessary obstructions; (vii) Drive vehicles in a considerate manner; (viii) Coordinate with Traffic Police for temporary road diversions and with for provision of traffic aids if transportation activities cannot be avoided during peak hours; (ix) Notify affected sensitive receptors 1-week inadvance by providing sign boards informing nature and duration of construction works and contact	
neration oftemporary employment and increase in local revenue	(i) Employ local labour force, or to the maximumextent possible (ii) Comply with labor laws	Included in RP
Occupational hazards which can arise	(I) Comply with all national, state and local core labor laws, Following best practice health and safety guidelines (ii) Specific occupational health and safety (OH and S) Plan which will include	All will be complied and details are given in SEMP
	measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment like helmet, gumboot, safety belt, gloves, nose musk and ear plugs; (c) OH and S Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; (iii) Conduct work in confine spaces, trenches, and at height with suitable precautions and using standards and safe construction methods; do not adopt adhoc methods; all trenches deeper than 1.5 m shall be provided with safety shoring/braces; andavoid open cutting method for trenches deeper than 6-7 m by adopting trenchless technology (iv) Ensure that qualified first-aid can be	
	provided atall times. Equipped first-aid stations shall be easily accessible throughout the site; (v) Provide medical insurance coverage for	0.3014
	workers; (vi) Secure all installations from unauthorizedintrusion and accident risks; (vii) The project area experiences extreme temperature during summer months of April	AHMEDABAD S





	andMay, which may affect the health of workers engaged in construction work. Contractor shouldtake necessary measures during summers including the following:	
Traffic accident and vehicle collisionwith pedestrians during materialand waste transportation	(i) Trench excavation and pipeline works shall be conducted in a safe manner; if the allowing public movement along the work sites (pedestrians or vehicles as the case may be) is likely to causesafety risks, movement should be blockedtemporarily and work shall be conducted; in such areas, conducting night work or working in small stretches to avoid blockage of traffic/movement no more than few hours in due consultation with the local community and ULB shall be planned (ii) All trenches deeper than 1.5 m shall beprovided with safety shoring/braces; and avoid open cutting method for trenches deeper than 6-7m by adopting trenchless technology	Will be complied as suggested
	(iii) Survey the surrounding vulnerable buildings for likely issues in structural stability / differential settlement during the excavation works (iv) Provide prior information to the local peopleabout the (v) Plan routes to avoid times of peak-	
	pedestrian activities. (vi) Liaise with PIU/ULB in identifying highrisk areas on route cards/maps. (vii) Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure. (viii) Provide road signs and flag persons to warn of on-going trenching activities.	
Trench excavation in narrow streets will pose high risk to childrenand elders in the locality	1. (i) Provide prior information to the local people about the nature and duration of work (ii) Conduct awareness program on safety during the construction work (iii) Undertake the construction work stretchwise; excavation, pipe laying and trench refillingshould be completed on the same day (iv) Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary	Process Initiated





	entry and to avoidaccidental fall into open trenches	4
Public inconvenience due to traffic diversion, disturbance due to excessive noiseand access loss, occupational health and safety issues etc.	Boards, traffic diversion boards etc. should be available with fluorescent/retro-reflective arrangements Workers should be trained before start of night works about risks and hazards of night works and their mitigation measures and should be provided all the protective aids (PPEs) including fluorescent/retro-reflective vests Horns should not be permitted by equipment and vehicles Workers should not shout and create noise First aid and emergency vehicles should be available at site Emergency preparedness plan should be operative during night works Old persons and pregnant women and women having small kids should not work in night-time All the vehicles and equipment being used	To be done if required and all the norms will be complied during the work with prior information and permission from PIU
	at night works should have adequate type of silencers/enclosures/mufflers to reduce noise All the vehicles should be checked for working head lamps, tail lamps, inner lights etc. before start of night works PIU/DSC site engineers and contractor's safety personnel should closely monitor the safety of works continuously and noise and illumination levels on hourly basis and maintain photographic and video graphic records as well as register the observations. Night works should be stopped early in the morningat least one hour before start of pedestrian/traffic movement After completion of night works all the site shouldbe cleaned and maintained obstruction free for daytime movement of vehicles and pedestrians Drivers and workers should be alert and responsiveduring night works All the wages to workers working in night hours should be as per the applicable labour acts	
	Avoid any nuisance which may create problems to nearby habitants and work peacefully during night hours Night works should not be conducted near hospitalsand during peak seasons such as peak tourist season, students' exam times	AHMEDARM AHMEDARM





	etc.	
will pose high risk to childrenand elders in the locality	(i) Conduct awareness program on safety during the construction work (ii) Undertake the construction work stretchwise; excavation, pipe laying and trench refilling shouldbe completed on the same day (iii) Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches	Will be complied as suggested
	Trench excavation and pipeline works shall be conducted in a safe manner; if the allowingpublic movement along the work sites (pedestrians or vehicles as the case may be) is likely to cause safety risks, movement should be blockedtemporarily and work shall be conducted; in such areas, conducting night work or working in small stretches to avoid blockage of traffic/movement no more than few hours in due consultation with the local community	
	and ULB shall be planned	
Noise generated due to HDD mayaffect theneighboring Communities and other sensitive receptors (suchas students atschools and other educational institutes, patient at hospitals etc.).	Pipes shall be installed by the horizontal directional drilling (HDD) methods where required. If the method is not feasible for any road, the contractor shall inform the Project Manager and gain priorapproval for an alternative method or for open trench method. • Provide outdoor sound blanket or noise curtain wall to help alleviate the noise impact due to HDD.	All the norms will be complied as suggested, if required
out tothe watercourses may contaminate the	Monitor the noise level to ensure the maximumlevels are not exceeded.	
adjacentsurface water.	Excavation material shall be removed from the conduit as the work progresses. No accumulation of excavated material within the conduit will be permitted.	
	The contractor shall provide sediment and erosion control measures in accordance with local environmental legislation.	St. Jav
	The contractor shall supply portable mud tanks orconstruct temporary mud pits to contain excess drillfluids during	AHMEDAB





	construction. Spent drilling fluids and cuttings shall be confined to the entrance and exit pits.	
	 The contractor shall take all necessary precautions to minimize the damage to the adjacentproperties. The contractor shall take all necessary precautions to minimize the damage to the adjacentproperties. 	
	Drilling fluid/ bentonite slurry that enters the pipe shall be removed by flushing or other suitable methods. Sediment tanks of sufficient capacity, constructed from pre- formed individual cells of approximately 6-	
	8m ³ capacities shall be used for settling waste-waters prior to disposal.	
	The contractor shall be responsible for cleanup and restoration of the site Pits excavated to permit connection of bored pipeshall be backfilled, and disturbed	
	areas shall be restored to their original state or better. Sections of sidewalks, curbs, and gutters or other permanent improvements damaged during HDD operations shall be repaired or replaced at the contractor's expense.	
Temporary air and noise pollution from machine operation, water pollutionfrom storage and use of fuels,oils,solvents,and lubricants Unsanitary andpoor living conditions for workers	(i) Consult with PIU before locating project offices, sheds, and construction plants; (ii) Minimize removal of vegetation and disallowcutting of trees; (iii) Provide drinking water, water for other uses, and sanitation facilities for employees; (iv) Provided temporary rest and eating area at all work sites (v) Ensure conditions of livability at work camps arealways maintained at the highest standards possible; living quarters and construction campsshall be provided with standard materials (as far as possible to use	The camp has been constructed for the present need of the workers as per the IFC guidelines. All the norms will be followed as required.
	portable ready to fit-in reusablecabins with proper ventilation); thatched huts, and facilities constructed with materials like GI sheets, tarpaulins, etc., shall not be used as accommodation for workers; accommodation shall meet the IFC	07.10

which include: provision of safe housing, availability of electricity, plumbing, water and sanitation, adequate fire protection and





	dormitory/room facilities; accommodation	
	shall be in the range from 10 to 12.5 cubic meters (volume) or 4 to 5.5 square meters	*
	(surface) per worker, a minimum ceiling	12
	height of 2.10 meters; a reasonable number	
	of workers are allowed to sharethe same	a tracky posts
	room – (standards range from 2 to 8	المريحة والمراجع والماسي
	workers); workers with accompanying	
	families shallbe provided with a proper and	la n
	safe accommodation	
	(vi) Train employees in the storage and	
*	handling of materials which can potentially	
	cause soil contamination;	
	(vii) Recover used oil and lubricants and	
	reuse or remove from the site;	
	(viii) Manage solid waste according to the	and the second
	preference hierarchy: reuse, recycling and	
740	disposal to designated areas;	
	Ensure unauthorized persons specially childrenare not allowed in any worksite at	
	any given time.	
Uncontrolled	To avoid over exploitation of	Will be complied as
extraction of water	groundwaterresources, judicious use and	suggested
mayaffect availability	proper scientificplanning is required for	=
ofwater to locals.	further developments by the	
Contamination of	Government. Prevent pollutants from	
groundwaterfrom	contaminating the soil and the ground	
construction related sourcessuch a fuel	water. • Alltube wells, test holes,	
and liquid wastes.	monitoring wells that are nolonger in use or needed shall be properly decommissioned; •	
anunquiu wastes.	Storage of lubricants and fuelat least 50 m	
	from water bodies • Storage of fueland	
	lubricants in double hulled tanks. Fuel and	
	other petroleum products stored at	
- X	storage areasaway from water drainage	
	and protected byimpermeable lining and	
	bonded 110%. • Dailycontrol of machinery	The 1 T 数 EL
	and vehicles for leakages Collection of	
	waste during construction activities •	
	Provide uncontaminated water for dust	
	suppression	
	Monitor groundwater quality according to	
	theenvironmental monitoring plan	2/2/2001
Risk of	(i) Strictly follow the protocol for chance	Will be complied as
archaeological chance	finds in anyexcavation work;	suggested
finds	(ii) Create awareness among the	
	workers, supervisors and engineers about	
	the chance finds during excavation work	301/
	(iii) Stop work immediately to allow further investigation if any finds are suspected;	124
	(iv) Inform local Archeological	1907
	(14) Internit local Archeological	AMMEDI





	Department / Museum office if a find is suspected and take anyaction, they require to ensure its removal or protection in situ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Disruption of utilities andwater logging intrenches	(i) As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it (ii) if open trenches are not avoidable during monsoon, keep ready all the mitigations measures to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. (iii) keep emergency response system ready beforemonsoon/heavy rain fall	Will be complied as suggested
Unsatisfactory compliance to EMP	(i) Appointment of supervisor to ensure EMPimplementation (ii) Timely submission of monitoring reportsincluding pictures	Process initiated and will be continued as suggested
Damage due to debris, spoils, excess construction materials	(i) Remove all spoils wreckage, rubbish, or temporary structures (such as buildings, shelters, and latrines) which are no longer required; and	Will be complied as suggested
	(ii) All excavated roads shall be reinstated to original condition. (iii) All disrupted utilities restored (iv) All affected structures rehabilitated/compensated (v) The area that previously housed the construction camp is to be checked for spills ofsubstances such as oil, paint, etc. and these shall be cleaned up. (vi) All hardened surfaces within the construction camp area shall be ripped, all imported materials removed, and the area shall be top soiled and re- grassed using the guidelines set out in the revegetation specification that forms part of this document. (vii) The contractor must arrange the cancellation ofall temporary services. Request PIU to report in writing that worksites and camps have been vacated and restored to pre-project conditions before acceptance of work	





SEMP ANNEXURES

ANNEXURE 1: PRE-CONSTRUCTION PHASE APPROVALS/NOCs

ANNEXURE 2: LAY OUT PLAN OF LABOUR CAMP

ANNEXURE 3: SAFETY TRAINING

ANNEXURE 3: SPOIL MANAGEMENT PLAN ANNEXURE 4: TRAFFIC MANAGEMENT PLAN

ANNEXURE 5: SAFEGUARD ACTIVITIES INCLUDING COVID 19
ANNEXURE 6: BASELINE ENVIRONMENTAL MONITORING

ANNEXURE 7: GRIEVANCE REDRESS MECHANISM

ANNEXURE 8: INSURACE OF VEHICLE

ANNEXURE 9: DUMPING SITE

ANNEXURE 10: EXTRACT FROM CONSTRUCTION AND DEMOLITION MANAGEMENT RULES, 2016

ANNEXURE11: SAMPLE CHANCE FIND PROTOCOL ANNEXURE12: OCUPATIONAL HEALTH & SAFETY

ANNEXURE13:HEAT WAVES

ANNEXURE 14:SEMP DISCLOSURE







ANNEXURE 1: PRE-CONSTRUCTION PHASE APPROVALS/NOCs

Sr. No	Clearance Required		No Clearance is Required		Implement ation	Supervi sion	Complia nce status
1	Construction and Operation of new STP including discharge of treated effluents and disposal of sludge	Consent to establish (CTE) and consent to operate (CTO) under Water Act, 1974 from Uttarakhand Pollution Control Board (UEPPCB)	PIU and Contractor	PMU .			
2 Ground Water Abstraction		Permissions from Central Ground Water Board Authority under Section 4 of the Environmental Protection Act (EPA) (1986).	PIU	PIU PMU			
	S						
3	Tree Cutting	State forest department	PIU	PIU PMU			
4	Hot mix plants, Crushers and Batching plants	Consent to establish and consent to operate under Air Act, 1981 from UEPPCB	DBO Contractor	PIU			
5	Storage, handling and transport of hazardous materials	Hazardous Wastes (Management and Handling) Rules. 2016; Manufacturing, Storage and Import of Hazardous Chemicals Rules, 1989 from UEPPCB	DBO Contractor	PIU			
6	Material Sourcing- Approval for sourcing stones and sand from quarries and sand mining and borrow areas	Permission from District Collector/ State Department of Mining	DBO Contractor	PIU			
7	New quarries and borrow areas	Environmental clearance DBO under EIA Notification Contractor 2006		PIU			
8	Temporary traffic diversion measures	District traffic police	DBO Contractor	PIU			
9	Road cutting for Sewer laying works	Nagar Nigam and PWD	PIU	PMU			
10	Use of Railways ROW for construction area/ crossing	Indian Railways	PIU	PMU			
11	Construction Waste and Demolition Debris Management	Approval from Nagar Nigam for disposal site is required per Construction and	DBO Contractor	PIU			





		Demolition Waste Management Rules 2016			
12	Labour License	Labour Commissioner, Government of Uttarakhand	DBO Contractor	PIU	







Attachments

- 1: No Objection Letter for OHT/ Tube well Construction from Dehradun Nagar Nigam, Banjarawala Package 2
- 2): Permission from Central Groundwater Board for Installation of Tube wells for Water Supply Purpose in Dehradun
- 3): CTE from UEPPCB
- 4): CTE Under (Water Act & Air Act)
- 5): Labour License (needs to be attached)
- 6): Vendor approval letter for Cement, Steel, HDPE pipe
- 7): Submitted Vendor QAP & Credential List
- 8): Approved quarries Letter for sand & aggregate(needs to be attached)
- 9): Letter for Permission of Road Cutting for Sewer line laying and Storm water drain work
- 10): Pollution Under Control Certificates of vehicles and equipment







Permission from Central Groundwater Board for Installation of Tube for Water Supply Purpose in Dehradun



Office of the Program Director Uttarakhand Urban Sector Development Agency



Ref. UUSDA/ A-378/ 163

Date 23 /02/2021

Regional Director Central Ground Water Board (CGWB), Uttarakhand Region,

149A-kanwali Road, Dehradun, Uttarakhand.

SUBJECT: PERMISSION FOR INSTALLATION OF TUBE WELLS FOR WATER SUPPLY PURPOSE IN DEHRADUN MUNICIPAL LIMITS.

This office letter no. UUSDA/A-378/497 dt. 27.11.2020

Please refer this office letter cited under reference wherein, permission for installation of tube wells was sought. As you are aware that Uttarakhand Urban Sector Development Agency (UUSDA) under Urban Development Department, Government of Uttarakhand is negotiating for a project loan for Uttarakhand inclusive urban development. Ultarakhand is negotiating for a project loan for Ultarakhand inclusive urban development project for Naintial and Dehradun from Asian Development Bank (ADB). As part of the process ADB requires the concurrence from CGWB for the installation of tube wells for use of the ground water for drinking purpose. In this regard it is pertinent mentioned here that we have received such a permission from your office letter no. 4(65)/CGW/UR/Tech-15-84 dt. 2nd Feb, 2016 (copy attached).

Therefore your good office requested to grant permission for installation of Tube wells as per the details annexed herewith.

Early action the subject matter will be highly solicited.

Thanking you

Encl : As stated above

Yours faithfully

B (Vinay Mishra) Additional Project Director (T) UUSDA, Dehradun

C:C: 1- Additional Project Director, UUDSA for information.
2- Sh. Suresh Khanduri, Environment Specialist Design and Supervision Consultant, UUSDA for coordination and necessary follow-up

> Additional Project Director (T) UUSDA, Dehradun





CTE under (Water Act & Air Act)

Invest Uttarakhand

SNo.	Application Detail	Contact Detail	Status	Department's Time	Applicant's Time	Total Time	Action
1	# App ID: 2378953 Applied On: 31- 03-2022 10:36:00 CAF ID: 38440 Uttarakhand Pollution Control BoardApply for Consent to Establish under (Water Act & Air Act)	Malam Singh 8290904089 malam. singhleo@ gmail.com PROJECT MANAGER PIU- DEHRADUN UIRUDP	Forward	DMS:0 days, 0 hrs, 0 min Service: 19 days, 18 hrs, 0 min		DMS: 0 days, 0 hrs, 0 min Service: 19 days, 18 hrs, 0 min	View Timeline Print Application







Consent to Operate



Uttarakhand Environment Protection and Pollution Control Board
"Gaura Devi Paryavaran Bhawan"
46B, IT Park, Sahastradhara Road, Dehra Dun (Uttarakhand)

(68 bill. Rajendranagar, Kantogarh Road, Debradus.

Kaulogarh Road, Debradum.

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Censent & authorization) (Renewal) under Section-25 of the "Water (Prevention & Control of Pollution) Act, 1974" and under Section-21 of the "Air (Prevention & Control of Pollution) Act, 1981" and Authorization under "Eule-6(2)" of the "Hazardon and Other Wastes (Planagement and Transboundary Movement) Rules, 2016" autified under "Environment (Protection) Act, 1986" as applicable (to be referred hereinafter as Water Act, Air Act and IW Rules respectively).

Inward ID -- 243214

CCA is beceive granted to Mr. Untersichand Urban Sector Development Agency, Debradum for operations of Khures No : 193, Karaji Chowk, Debradum arbject to the provisions of the Water Act. Air Act and Hazardons and Other Waster (Management and Transboundary Novement) Ruise. 2016 and the orders that may be made further and subject to following terms and conditions

This CCA is granted for a period upto 31.03.2022 and valid for manufacturing of following products with Capital Investment/Net Assets Values € 48.00 Crs:

5. No.	Last CCA		Present CCA (Renewal)		
	Operation	Trentment Capacity	Ograndian	Treatment Capacity	
	STP	68 MILD	STP	68 MLD	

	Last CCA	Present CCA (Renewal)
Trade Effluent	Mis (7518
Sewage (STP Discharge)	Nil. I	68

- (ii) Sewage Treatment and Disposal: The applicant shall ensure appropriate operation and maintenance of common Sewage Treatment Plant as required with reference influent quantity and quality.
- influent quantity and quantity.

 The operator of STP shall provide adequate facility of 3 days which can be utilized for storage of sewage in case of stoppage of functioning of STP.

 (iv) The Quality of the treated effluent shall meet to the following standards as prescribed under the Environment (Protection) Rules, 1986 as amended dated 13.10.2017.

- the application by the person authorized shall constitute a breach of his authorization.

 (v) It is the duty of the authorized person to take prior permission of the SPCB/PCC to close down the facility.

 (vi) An application for the renewal of an authorization shall be made as laid down under these rules.

 (vii) The unit shall comply with any other conditions specified in the guidelines issued by the MOEF or CPCB/SPCB from time to time.
- This CCA is valid for the operation of STP only.

- This CCA is valid for the operation of STP only.

 Compulsory documents to be submitted by the Industry/Unit:

 (i) Annual return in Form-4 and Waste Disposal Manifest in Form-10 under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Third Party Audit Report.

 (ii) Environment Statement in Form-V of Environment (Protection) Rules, 1986.

 (iii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

 Init has to apply for renewal of CCA well in advance of 60 days of expiry of this CCA. Competent Authority reserves the right to change/modify/add any time any condition of this Unit has to comply with the other general conditions as annexed herewith. Non compliance of any provision of this CCA and provisions of the Water Act. Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will results in legal action under the aforesaid Acts and Rules.

 The Applicant shall obtain all permissions and prepare a plan for reutilization of treated water in pursuance of Hon'ble NGT orders issued time to time and shall ensure time bound execution of the same. Copies may be submitted to the Board offices.

Member Stretary

Copy to: Regional Officer, Uttarakhand Environment Protection and Pollution Control Board. Debradus for information and compliance of the same.







Labour License







PM



LABOUR COMMISSIONER ORGANIZATION, UTTARAKHAND

Application Form for License Under - Contractor Labour Act Licence
Application

License Application No

Name of Contractor

Address of Contractor

Date of Birth

Age

Name of Contractor's Firm

Address of Contractor's Firm

Type Of Business

Name of Principal Employer and Establishment/ Firm/ Company/ Organization

Address of Principal Employer and Establishment/ Firm/ Company/ Organization

Name of the Agent or Manager of Contractor

Address of the Agent or Manager of Contractor

Registration Certificate Number Under the Act

Date of Registration Under the Act

Maximum Number Of Contract Labour On Any Day

Nature of Work

: CLALDDN000436

M/s Dineshchandra R Agarwal Infracon Pvt... Ltd. Bhu

401, The Grand Mall, S.M. Road, Opp. SBI Zonal Office, Ambawadi, Ahmedabad

: 05/12/1985

0

M/s Dineshchandra R Agarwal Infracon Pvt. Ltd. Bhu

Lane No-05 Geetanjali Enclave, Doon University Road, Mothorowala, Dehradun

Development of Water Supply and Sewerage System in

UTTRAKHAND URBAN SECTOR DEVELOPMENT AGENCY (UUSDA)

,777, Saatvik Tower, II Floor, Rajendra Nagar, Kaulagarh Road, Dehradun.

: Rutul Rameshbhai Patel

NEAR D P. PALANPUR GUIARAT

701/D-CL/13

14/10/2013

50

Development of Water Supply and Sewerage
System involving TW, OHT, Distribution
network, Trunk Sewer and Allied works
including S years Operation and
Maintenance, at Banjarawala - Package - 2,
Dehradon in Uttarakhand,







	Contractor La	DOUL VIOLE		
		20/05/2022		
19 PM Proposed Duration of Conf	tract(From Date)	19/05/2023		
proposed Duration of Con	tract(To Date)			
Proposed Duration of Con	Was Convicted Of Any Offence Within th	e ; No		
Preceding Five Years	y Order Against The Contractor Revoking or Felting Security deposit in respect of an	of		
Earlier Contract				
met . Promph Clarge IR	rars.ii 30 dive			
Within The Past Five Te Employer, Establishmen	nt And Nature Of Work	Yes		
Within The Past Five 16 Employer, Establishmen Whether a Certificate I hereby declare that	rars.ii 30 dive	Yes	dge and belief	
Within The Past Five Te Employer, Establishmen	nt And Nature Of Work	Yes		
Within The Past Five 16 Employer, Establishmen Whether a Certificate I hereby declare that	nt And Nature Of Work	Yes	dge and belief	
Within The Past Five 16 Employer, Establishmen Whether a Certificate I hereby declare that	nt And Nature Of Work by The Principal Employer In Form V the details furnished above are true and correct to	Yes .		
Within The Past Five 16 Employer, Establishmen Whether a Certificate It hereby declare that Attachment	nt And Nature Of Work by The Principal Employer In Form V the details furnished above are true and correct to	Yes the best of my knowle		







Vendor approval letter for material



Office of the Project Manager Project Implementation Unit

Uttarakhand Urban Sector Development Agency Toor, Satvik Tover, 777 Main Kaulagarh Road, Rajendra Nagar, Debradun - 248001 Telephone +91-135-2751671, Tele-fax +91- 135-2751620 Email: :plutddn.gusdin@gmait.com



Letter No. 51 /WS&S-DDN-02

Dated: 07/01/2022

To.

Jeam Leader DSC, UUSDA Dehradun.

Sub: Regarding Vendor Approvals for material used in Project.

Ref:- DRA-BIPL/BAN/2021/016 dated 07.01.2022.

Name of Work: -Development of Water Supply & Sewerage System involving TW, OHT,
Distribution Network, Trunk Sewer & Allied Works including 05 years
Operation & Maintenance at Banjarawala, Package-02, Dehradun in

Dear Sir

This office is in receipt of Vendor QAP list vide aforesaid letter from M/s DRA-BIPL Joint Ventrure.

The said list along with its enclosure is attached herewith for favour of scrutiny and recommendation please.

Thanking you

Sincerely yours

Project Manager

Encl: Vendor List & QAP

Copy to:- Additional Program Director (Technical), UUSDA, Dehradun for information please.

By Hand Raceined State 25 25 125 25

Bothera Sy Hamber 222







Office of the Project Manager

Project Implementation Unit
Uttarskinad Urban Sector Development Agency
3rd Floor, Satuk Tonce, 737, 1866 Kantigude Hand, Rajordan Sagar, Behrad
Telephone Sector 1867, 5, 1966 684 22, 135-273-1620
Email: http://doi.org/10.1001/j.com/10.2001



Letter No. 18 2- /WS&S-DDN-02

Dated: 27/01/2022

Sub:Regarding submission of Vendor Credentials of MS Pipe in Jayour of Jindal Industries Pvt. Ltd. for Tubewell under contract Package WS&S-DDN-02.

Ref:- DRA-BIPL/BAN/2022/033 dated 27.01.2022,

Dear Sir,

With reference to above subject matter, M/s DRA-BIPL Joint Venture has submitted the Vendor Credential for approvals vide letter under reference.

The same is being forwarded to for review and your recommendation, if found in order, please.

Thanking you

Sincerely yours

(Vipin Tiwari) Project Munager

Encl: Aforesaid

Copy to:1. Additional Program Director (Technical), UUSDA, Dehradun for information please,
2. Concerned Assistant Engineer, PIU, 1USDA, Dehradun.
3. M/s M/s DRA-BIPL (Joint Venture) Gestanjali Enclave, Lane no.-05, Motharowalis, Near Doon University, Dehradun.

Reported St. March 1995.

Date St. 1995.

Shippen St. Continued Biographic St. 1995.

136.56. Continued Biographic St. 1995.

Office of the Project Manager Project Implementation Unit Ottawikhand Urbus Sester Development Agency Telephone 403-438-5751573, Univides 491-135-7/51525 Telephone 403-438-5751573, Univides 491-135-7/51525 -----

Sub: Regarding submission of OAP. Ref:- DRA-BIPL/BAN/2021/023 dated 18.01,2022.

Dear Sie, Otterakhand.

This office is in receipt of QAP for ERW Steel Pipes vide afforeasid letter from M/s

DRA-HIPL John Venture in favour of M/s Sarya Roshni Limited Babadungarh (BR).

The same is being forwarded nerowith for favour of screttiny and recommendation
please.

Project Manager

E.S. Adaptawaran

E.S. Adaptawaran

E.S. Adaptawaran

Can T. Adaptawaran

Can T. Adaptawaran

Director (Technical), UUSDA, Dehreidun for

Experience from the first property

Mr rome / Mr Androh

Carol Assistant





Check List for Quality Assurance Plan (QAP) For ERW Steel Pines

49 - PAD	Description	Information Provided by the Centractor	Status			
1	Name of Vendor	M/s Surya Roshni Ltd.	Englosed			
	Manufacturing Experience	97 Years	Not finctosed checked from Website			
- 5	BIS Certificate 14333 - 1996	15 4270: 2001	Complied on Page No.2 Validity- 28-02 2022			
-	- systemment Supply Phoof	and therestians aftherestianed	Classingshiped			
	Stephenica Sectionally, Sternian Sections	Juli Sarathur Uharakhand Water Supply project in Bandya Mussoorie water Supply Scheme	Conquies on Page No. 32, 39 & 30			
15	Dimensional Certificate	18 4270 2001 CI 7.2.1 18 4270 2001 CI 7.3.2 16 4270 2001 CI 7.2.4	Compliant in GAP			
	Mudroptestic Tent	10 4270 2003 CHRS	Constitution of the Card's			
10	Confere Creatmenton	165 8129 (4, 10008	CONTRACTOR CAPAC			









LETTER OF TRANSMITTAL FOR VENDOR DOCUMENTS

Annexure -1

Check List for Quality Assurance Plan (QAP) For ERW Steel Pipes

9. No	Description*	Description Information Provided by the Contractor		
3	Name of Vendor	M/s Surya Roshni Ltd.	Enclosed	
2	Manufacturing Expenses	37 Years	Not Enclosed checke from Website	
3	BIS Certificate 14333 - 1996	IS 4270 2001	Compiled on Page No.2 Velidity- 28-02-2022	
4	3.svernment Supply Proof	Jel Sansthan Utfarakhand	Complied	
.6	Experience Certificate, Sanisa Project	Jul Sansthan Ultarakhand Water Supplu project in Bandiya Musscorie water Supply Scheme	Complied on Page No.32, 34 & 35	
6	Dimensional Certificate	IS 4270: 2001 CI 7 2.1 IS 4270: 2001 CI 7.2.2 IS 4270: 2001 CI 7.2.4	Complied in QAP	
	Hydrostatic Test	16 4270 2001 CH 8	Complete GAP	
8	Burface Protection	S 4270, 2001	Completed in GAP	

Note: - Based on the document submitted by vendor and credentials received by DSC found the Vendor in order, UUSDA officials may approved vendor based on the vulted. Credentials and comment on QAP are enclosed.

THE NAME FROMB DOC

TOT PORM NO. NO NO.



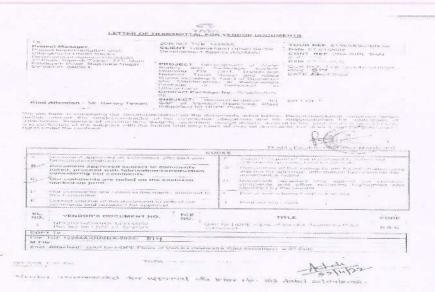




SURVA ROBHNI LTD BAHADURGARH (NG		Chern Propert Contractor P.O.No. PD.M. SPEC	Urtarakhand	¥E-410	feey.	RL/QAI 20 8.03.21	P/T/UUSDA/	4270/01
R. 160:	DESCRIPTION	QUANTITY QUANTUM OF CHECK	BEFERENCES / SPECIFICATION	ACCEPTANCE ORTHREA	POCUMENTS		COPE OF WESTIGN	зитеели
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PROJECT Development of Value Section Section 19 August 2005-2022

PROJECT Development of Value 2005-2022

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Sworth and Secondary System 2005-2016

Network, Trank Sinver and Aliked Worts protecting 5 Years of Operating 19 August 2005-2022

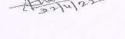
Development Appearation 20 August 2005-2022

Development 2005-2022

D

COPY TO: 1 File: TGE 12264A UUSDA 2022- 9 P)_

DIC Fig. 6: Equipor B. Illiano (Age 2) Feb. 4:31 () (Berlin)









TIP

TATA LETTER OF TRANSMITTAL FOR VENDOR DOCUMENTS

Project Manager, Project Implementation Unit, Uttarakhand Urban Sector Uttarakhand urban Sector Development Agency (UUSDA) 3º Floor, Saatvik Tower,777, Main Kaulagarh Road, Rajendra Nagar, Debradun-248001

YOUR REF: 1- 327/WS&S-DDN-02, Date: 21-02-2022 JOB NO: TCE. 12264A CLIENT: Utlarakhand Urban Sector Development Agency (UUSDA) CONT. REF: 1- DRA-BIPL/BAN/2022/047, Date: 16-02-2022 OUR REF: TCE.12264A-UUSDA-2022-379. Date: 31-01-2022 PROJECT: Development of Water Supply and Sewerage System involving TW, OHT, Distribution network, Trunk Sewer and Allied Works including 5 Years Operation and Maintenance, at Banjarawata Package - 2 Dehradun in Uttarakhand Contract Package No.- WSS-DDN-02 OUR REF: TCE.12264A-UUSDA-2022- 4 59 DATE: 2₁ -01-2022 SUBJECT: Recommendation of Vendor (M/s Jindal Industries Pvt. Ltd.) for MS Pipes SH 1 OF 1

We are here in conveying our recommendation on the documents listed below. Recommendation conveyed herein neither relieves the vendor/contractor of his contractual obligations and his responsibilities for correctness of dimensions, materials of construction, weights, quantitios, design details, assembly fits, performance requirements and conformity of the supplies with the Indian Statutory Laws as may be applicable, nor does it limit the purchaser's rights under the contract.

DSC UUSDA Dehradun TEAM LEADER/ PRO

		CODES		
A:	Document approved as submitted; proceed with fabrication/construction.	F1	Correct original of the document to comments and resubmit for records	
В:	Document approved subject to comments noted proceed with fabrication/construction considering our comments.		Documents of this category are for and not for approval, Information for document is noted.	
C:	Our comments are noted on the enclosed marks up print.	d- H:	Document reviewed only against comments and other revisions identified by the vendor.	it our previous highlighted and
D:	Our comments are noted in the memo attached this transmittal.	to I:	Document returned without review.	
E.	Correct original of the document to reflect our comments and resubmit for approval.	J;	Print not enclosed.	
91	NO VENDOR'S DOCUMENT NO	TCE .	TITLE	CODE

SL. NO.	VENDOR'S DOCUMENT NO.	TCE NO.	TITLE	CODE
1	Vendor Credential (M/s Jindal Industries Pvt. Ltd.) for MS Pipes		Vendor Credential (M/s Jindal Industries Pvt. Ltd.) for MS Pipes	A
	COPY To:			(4)

File: TCE.12264A-UUSDA-2022- 459 with/without encl.

TATA CONSULTING ENGINEERS LIMITED

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TCE FORM NO.390-DEL RS

olc







Submitted Vendors QAP & Credential List

B.L.	Mary Bassistics	Vendor Name	Documents		
.No.	Item Description	vendor warne	O,AP	VENDOR	
1	Di Rinos	Jindal Saw Ltd.	APPROVED	APPROVED	
	DI Pipes	Electrotherm India Ltd.	APPROVED	APPROVED	
2	DI Fittings	Arihant Casting	SUBMITTED	SUBMITTED	
2	DI LIKUNES	Jindal Saw Ltd.	APPROVED	APPROVED	
3		Nimbus Pipes Ltd.	APPROVED	APPROVED	
		Flexiflow Polymers LLP	APPROVED	APPROVED	
		Vedanta Pplymers Ltd.	SUBMITTED	APPROVED	
		Apollo Pipes Ltd.	SUBMITTED	SUBMITTED	
	HDPE Pipes	Duraline India Pvt. Ltd.	APPROVED	APPROVED	
		Eonnplast	SUBMITTED	SUBMITTED	
		Narendraplast Industries	SUBMITTED	SUBMITTED	
		Tirupati Structurals Ltd.	SUBMITTED	SUBMITTED	
		Time Technoplast Ltd.	SUBMITTED	SUBMITTED	
4		Vishal Pipes Ltd.	APPROVED	APPROVED	
	U-PVC Pipes	Prince Pipes & Fittings Ltd.	SUBMITTED	APPROVED	
	0-PVC Pipes	Sorkhi Industries Pvt. Ltd.	SUBMITTED	APPROVED	
		Tirupati Structurals Ltd.	SUBMITTED	SUBMITTED	
5	Composite Fittings, Strapon	Al-Aziz Plastics Pvt Ltd.	APPROVED	APPROVED	
	Saddle & Electrofusion Fittings	Bentlay	APPROVED	APPROVED	
6	SFRC Manhole Cover & Frame	Chaman Udhyog	APPROVED	APPROVED	
7	MS Pipe	Surya Roshini Ltd.	APPROVED	APPROVED	
f	ian sinc	Jindal Industries Pvt. Ltd.	APPROVED	APPROVED	
8	RCC Pipe, PSC Pipe & Fittings	Prakash Pipe Factory	SUBMITTED	SUBMITTED	
	rocripe, racripe acritaings	Krishna Pipes	SUBMITTED	SUBMITTED	
9	water well screen	johson screens	APPROVED	APPROVED	





संख्या :

DRA-BIPL Joint Venture



Approved quarries Letter for Sand and Aggregate

भूतत्व एवं खनिकम् इकाई, उद्योग निदेशालय, उत्तराखण्ड, भोपालपानी, देहरादून।

/ स्टो०क्रेक्लांवनवीव / खनन / मृठखनिवईव / वरिव / 2021-22.

विनाक ८५८ अक्टूबर २०२१

कार्यालय आप उत्तरप्रदावह देवसून, औरवोगिक विकास (यनन) अनुभाग—1 में कार्यालय आप संख्या प्रसिद्ध मोबाईल स्टोन क्रेसर क्षेत्रक हैं टीसी—1, दिनांक है सिवांगर 2021 के द्वारा प्रताराज्यण्ड स्टोन क्रेसर क्षीतिंग प्रसाद मोबाईल स्टोन क्रेसर क्षेत्रक क्षेत्रक हैं हैं सिवांगर कार प्रसाद क्षीतिंग प्रसाद क्षीतिंग प्रसाद क्षीतिंग प्लॉट, मोबाईल स्टोन क्रेसर, मोबाईल स्क्रीनिंग प्लॉट, मल्पराईजर प्लाट, हाट मिक्स प्लाट, रेडिविक्स प्लाट अनुजा नीति. 2020 के अध्याय—III के बिन्दु संख्या 1 के उप बिन्दु 2 में संशोधन किया गया है कि— स्टीन क्रशर/म्क्रीनेंग प्लाट का स्थितिकरण जिलाधिकारी अथवा उनके द्वारा नामित अपर जिलाधिकारी/मुख्य विकास अधिकारी की अध्यक्ता में मेठित स्थिति की संयक्त निरीक्षण अफ्ला के क्रियाधिकारी एवं निर्देशक, भृतत्व एवं खनिकर्म इकाई की समृति पर समिति की संयुक्त निरीक्षण आख्या के आधार पर जिलाधिकारी एवं निदेशक, मृतत्व एवं खनिकमं इकाई की सम्तुति पर शासन दाजा 10 वर्ष की अच्छी के आधार पर जिलाधिकारी एवं निदेशक, मृतत्व एवं खनिकमं इकाई की सम्तुति पर शासन द्वारा 10 वर्ष की अविधि हेतु की जायेगी"। परन्तु वर्तमान में कोविड-19 (Covid-19) के महामार्ग के प्रभाव पूर के अधिकार गर्म महाद्वार स्टीन लंकमण की सम्भावनाओं एवं Ease of Doing Business के दृष्टिगत एवं से स्वीकृत तथा सवातित स्टान क्रेशर∕स्क्रीनिंग प्लांट एवं प्लांट परिसर में छपखनिज भण्डारण की अनुझा का नवीनीकरण (मा0 न्यायालय मा० सप्टीय हरित प्राधिकरण के आदेश द्वारा बन्द या सीज की गयी इकाईयों की छोड़कर) आवेदक इकाई द्वारा नवीनीकरण शुन्क जमा किये जाने एवं आवेदन पत्र के साथ नीति में निर्धारित मानकों/प्रावधानों को पूर्ण किये जाने स सम्यन्धित प्रायस के साथ नीति में निर्धारित मानकों/प्रावधानों को पूर्ण किये जाने स सम्यन्धित प्रायस पत्र के हारा स्वप्रमाणपन (Self Certification) प्रस्तुत किये जाने पर निदेशक, भृतत्व एवं खनिकर्म इकाई हारा सम्बन्धन अभिलेखों का परीक्षण / जींच करने के उपरान्त आगामी 10 वर्ष की अवधि हेतू नवीनीकरण किया जायेगा, प्रतिबन्ध यह कि यह परन्तुक उक्त नीति प्रख्यापित होने की तिथि से 01 माह तक ही प्रवृत्त एवं प्रभावी होगा"। शासन के पत्र संख्या 1551/VII-A-1/2021-68 रिट/08 टीसी-1, दिनांक 08 सितम्बर 2021 के द्वारा स्टोन क्रेशर नीति, 2020 व उक्तानुसारं किये गये प्रावधान के सफल एवं सुचारू क्रियान्वयन हेतु श्री राजपाल लेघा, उप निदेशक/ज्येष्ठ खान अधिकारी, भूतत्व एवं खनिकर्म इकाई, जनपद नैनीताल को एतदद्वारा नोडल अधिकारी नामित किया गया है। शासन के उपरोक्त कार्यालय ज्ञाप के क्रम में निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड देहरादून के कार्यालय आदेश संख्या 2055/खनन/भृ०खनि०ई०/2021-22, दिनांक 21 सितम्बर 2021 के द्वारा पूर्व सं स्वीकृत / संचालित स्टोन क्रेशर / स्क्रीनिंग प्लांटों तथा प्लांट परिसर में उपखनिज मण्डारण की अनुङ्गा का नवीनीकरण आदेश नीतिगत समस्त नियमों का पालन कराते हुए नवीनीकरण आदेश निर्गत किये जाने हेतु अधीहस्ताक्षरी को एतदद्वारा अधिकृत किया गया है।

नोडल अधिकारी, भूतत्व एवं खनिकर्म इकाई, देहरादून द्वारा पत्र संख्या 113/भू०खनि०ई०/स्टो०क्रे०नवी०/हरि०/2021–22. दिनांक 01 अक्टूबर 2021 के द्वारा मैसर्स इण्डिया स्टोन क्रेशर प्रो० श्री खालिद अली, ग्राम तेलपुरा, पो० बुग्गावाला, जनपद हरिद्वार को ग्राम दौलतपुर हजरतपुर उर्फ बुधवाशहीद, तहसील रूडकी, जनपद व तहसील हरिद्वार के क्षेत्रान्तर्गत कुल 2.0398 है० भूमि मे पूर्व से स्वीकृत/स्थापित स्टोन क्रेशर प्लांट की अनुज्ञा का नवीनीकरण मय भण्डारण अनुज्ञा सहित दिनांक 24 अक्टूबर 2018 से आगामी 10 वर्ष की अविध हेतु स्वीकृत किये जाने के सम्बन्ध मे प्रस्ताव प्रेषित किया गया है।

उत्तराखण्ड शासन, औद्योगिक विकास अनुभाग के कार्यालय ज्ञाप संख्या 1562/VII-1/125-ख/2013. दिनांक 24 अक्टूबर 2013 के द्वारा उत्तराखण्ड के "मैदानी क्षेत्र" हेतु स्टोन क्रेशर, स्क्रीनिंग प्लांट, पल्दराईजर अनुज्ञा नीति 2011 के अन्तर्गत निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड, देहरादून के प्रस्ताद दिनांक 17 जुलाई 2013 मे प्रदत्त संस्तुति के क्रम मे आवेदक मैसर्स इण्डिया स्टोन क्रेशर प्रो० श्री खालिद अली, याम तेलपुरा, पां0 बुग्गावाला, जनपद हरिद्वार को ग्राम तैलपुरा, पां0 बुग्गावाला, जनपद हरिद्वार को ग्राम तैलपुर हजरतपुर उर्फ बुव्वाशाहीद, तहसील रूडकी, जनपद व तहसील हरिद्वार के क्षेत्रान्तर्गत कुल 2.0562 हैं0 अर्थात् 5.08 एकड भूमि मे 200 टन प्रतिदिन क्षमता के स्टोन क्रेशर स्थापना/संचालन हेतु आदेश मे वर्णित शर्तों के अधीन 05 वर्ष की अविधे के लिए स्वीकृत किये जाने की अनुमित प्रदान की गयी है। तदोपरान्त कार्यालय जिलाधिकारी हरिद्वार के पत्र संख्या 731/खनन सहा0/उठ्यानि०म0-2016, दिनांक की गयी है। तदोपरान्त कार्यालय जिलाधिकारी हरिद्वार के पत्र संख्या 731/खनन सहा0/उठ्यानि०म0-2016, दिनांक 21 जुलाई 2016 के द्वारा प्लांट स्वागी के पक्ष मे ग्राम दौलतपुर हजरतपुर उर्फ बुधवाशाहीद के चक्र सं० 748 के गाटा सं० 948/2, चक्र सं० 547 के गाटा रां0 948/22, 948/23, चक्र सं० 945/3, 945/4, 947, 948/26, 948/27, 948/28, जुल भूमि 2.0330 हैं0 मे एक समय मे 70,000 धनमीटर उपखनिज मण्डारण की अनुमित दिनांक 23 अक्टूबर 2018 तक की अविधे हेतु आदेश मे वर्णित शर्तों के अधीन अनुमित प्रदान की गयी हैं।







द्वाट स्वामी के आवदन पत्र में प्लार की हमता 75 हैने प्रीते घंटा उल्लिखन है। उल्लेखन स्टीन बेस्त ्रकृतिमा प्लान्ट, पत्चराईजर, मोबाईल स्टोन क्रंशर मोबाईल स्क्रीमिंग प्लान्ट, होट मिस्स प्लान्ट रही भिरस प्लान्ट अनुज्ञा नीति-2020 के अनुसार प्लाट की बास्तुविक क्षमता का आकलन नीति के अध्याय-। के यिन्दु संख्या 9 में गटित सीमीत से कराये जाने के जपरान्त ही प्लाट की वास्तविक धमता निर्धारित की जाएगी।

इकाई, वेहरादून के एउ भूतत्व एव स्वनिकर्म 113/मृत्स्वनिवर्डव/स्तीवकेवनकीव/सीरेव/2021-22 विनाक वा अक्तूबर 2021 के द्वारा जपत्रदा कराये परे प्रस्ताह के क्रम में उत्तराखण्ड साजन् जीहानिक विकास (सनन) प्रमुगाग-१ क कार्यालय द्वाप संस्था 1480/VIII-A-1/2021/68 विट्राजी 1, दिनाम में सिवास 2021 के अध्यान भा के किन्दु संस्था 1 उप किन्दु 2 में निहित पादमान के अन्तर्गत मैसर्स इण्डिया स्टोन क्रंशर प्री0 श्री सालिद अली, ग्राम तलपूर्य, के वृग्गवाना, जनपद हरिद्वार के पक्ष में ग्राम दौलतपुर हजरतपुर छर्फ बुधवाशधीय, तहसील सडकी, जनपत व तहसील हरिद्वार क संजन्मांत कुल 2 0398 हैं। भूमि में पूर्व से स्वीकृत/स्थापित स्टॉन क्रेशर प्लाट की अनुआ का गय भण्डारण अनुआ सदित विनक 24 अक्टूबर 2018 से आगामी 10 वर्ष की अवधि के लिए निम्न शर्तों के अधीन नवीनीकरण किया जाता है

शर्ते :

1. उताराखण्ड स्टोन क्रेशर, स्क्रीनिंग प्लान्ट, पलाराईजर, मोबाईल स्टोन क्रंशर, मोबाईल स्क्रीनिंग प्लान्ट, हिंद मिक्स प्लान्ट, रेडी मिक्स प्लान्ट अनुज्ञा नीति-2020 के अध्याय-1 के बिन्दु संख्या 7 "स्टान क्रेंगर/एक्टीनर प्लांट अनुजा देने हेतु शर्ते" में उल्लिखित समस्त शर्तों (विन्दु संख्या 1 से 14 तक) का अनुपासन किया जना अनिवार्य होगा अन्यथा ई-रवन्ता पोर्टल वन्द किये जाने की कार्यवाही की जायेगी।

2. स्टोन क्रेशर नीति के अध्याय-1 के बिन्दु संख्या 7 (15) की अनुपालना मा0 न्यायालय द्वारा स्टि यायिका सं० 1645 / एम०एस० / 2020 बलविन्दर सिंह बनाम उत्तराखण्ड राज्य व अन्य मे पारित आदेश के अनुसार की उन्हें

होगी।

3. स्टोन क्रेशर नीति-2020 के अध्याय-। के बिन्दु संख्या 7 (16) के अनुसार प्लांट संचालन से पूर्व पर्यादरन संरक्षण एवं प्रदूषण नियंत्रण बोर्ड से Consent to Operate लिया जाना अपरिहार्य होगा।

4. स्टोन क्रेशर नीति-2020 के अध्याय-। के बिन्दु संख्या 9 की अनुपालना मा0 न्यायालय द्वारा दिट चाचिका संव 1645 / एम०एस० / 2020 बलविन्दर सिंह बनाम उत्तराखण्ड राज्य व अन्य मे पारित आदेश के अनुसार की जानी

होगी।

5. नीति के अध्याय-III के बिन्द् संख्या 1 (1) के अनुसार अवशेष शुल्क रू० 19,80,000/-(रापये उन्नीसलख अस्ती हजार मात्र) नवीनीकरण आदेश के उपरान्त तथा ई-रवन्ना पोर्टल में अपलोड / अपडेट किये जाने से पूर्व

निर्धारित लेखा शीर्षक मे जमा किया जाना होगा।

6. स्टोन क्रेशर नीति-2020 के अध्याय-1 के बिन्दु संख्या 6 (क) के अनुसार स्टोन क्रेशर संचालक को क्रस्ड मैटेरियल (ग्रिट एवं डस्ट) की मात्रा पर रू० 1.00 प्रति कुन्तल की समतुल्य धनराशि तथा क्रेशर प्लांट में छाने गये उपखनिज (बालू, बजरी) की मात्रा पर रू० 0.25 प्रति कुन्तल की समतुल्य धनराशि पर्यावरण एवं खनिज सम्पदा शुल्क के रूप में निर्धारित लेखाशीर्षक-0853 अलीह धातु कर्म एवं खनन उद्योग में जमा किया जाना अनिवार्य होगा।

7. स्टोन क्रेशर नीति-2020 के अध्याय-1 के बिन्दु संख्या 6 (ख) के अनुसार स्टोन क्रेशर के स्वामी के द्वारा स्वान्य के प्रवेश में व निकासी गेटों पर कम्प्यूटराईज्ड धर्मकाटा एवं सी०सी०टी०वी० कैमरा स्वयं के व्यय पर स्थापित करेगा तथा रिकृंडिंग की सी०डी० प्रत्येक माह जिलाधिकारी एवं भूतत्व एवं खनिकर्म निदेशालय के जनपदीय

कार्यालय में प्रस्तुत करेगा। तदनुसार निदेशक को सूचित किया जायेगा।

स्टोन क्रेशर नीति-2020 के अध्याय-। के विन्दु संख्या ६ (ग) के अनुसार भण्डारण की जांच/पैमाइश के उपरान्त यदि भण्डारित उपखनिज की मात्रा भण्डारणकर्ता द्वारा प्रस्तुत अभिलेखों एवं वास्तविक पैमाईश के अनुसार मिलान करने पर 5 प्रतिशत से अधिक का अन्तर पाया जाता है, तो नियमावली के नियम 13(5)(ख) के अनुसार कार्यवाही की जायंगी।

9. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्तु संख्या 6 (घ) के अनुसार स्टोन क्रेशर स्वामी द्वारा पर्यावरण एवं खनिज सम्पदा शुल्क जमा न करने की दशा में खनिजों के परिवहन हेतु संबंधित जिला खान अधिकारी द्वारा

ई-प्रपत्र "जे" जारी नहीं किया जायेगा।



TATA CON

10 स्टोन क्रेंगर नीति-2020 के अध्याय-। के बिन्दु संख्या 6 (उ) के अनुसार स्टान क्रेंगर सान्ट हारा वन क्षत्र म क्रुय किये गये उपखनिज को प्लान्ट में Process किये जाने के उपराना crushed material/ Screened material का स्वरूप परिकान होने के कलस्वरूप Processed material वन उपज की श्रेशी में नहीं आदगा।

 प्लाट स्वामी की आवेदन प्राप्त में विद्यालय प्लाट की क्षमता 75 टन/मण तथा प्लाट सवाटन की क्रांचित औसतन 10 घटा प्रतिदिन के आधार पर वर्षांगल (ज्ञाई (मतान्य) और अवधि (१० दिन) वर्ष कच्चे माल/आराज्यीवएमव की कुल मात्रा अर्थान् स्टोन क्रेग्रर हेत् कच्चे माल की एक समय म भगतारह समय 90×75×10=67,500 टन तथा वर्षाकल से मिन्न अवधि अर्थाव् (अवत्यर से जुन क्रिक दी अर्टी है। कन्न माल की एक समय में भण्डारण क्षमता 45×75×10=33,750 टन होती है तथा वर्ष में 2,70,000 रूप कर्ट पान की आवश्यकता होगी।

12. उत्तराखण्ड स्टोन क्रेशर, रक्षीनिम प्लान्ट, पत्चराईजर, मोबाईल स्टोन क्रेशर, मोबाईल स्क्रीनम प्रनाट, होट मिक्स प्लान्ट, रेडी मिक्स प्लान्ट अनुजा गीति-2020 के अनुसार प्लाट की वास्तरिक क्षमता का आकरण र्स के अध्याय-1 के दिन्दु संख्या 9 में गठित समिति से कराये जाने के उपरान्त ही ख़ाट की वास्तरिक हवार

निर्धारित की जा सकेगी।

13. स्टोन क्रेशर मीति-2020 के अध्याय-III के विन्दु संख्या 3 (1) के अनुसार प्लांट स्वामी के द्वारा शासन की नीति के विपरीत कार्य करने पर जिलाधिकारी एवं निदेशक, भूतत्व एवं खनिकर्म इकाई की संस्तृति पर शासन द्वारा प्लांट स्वामी को सुनवाई का युक्ति—युक्त अवसरं प्रदान करने के उपरान्त गुण—दोप के आधार पर अनुजा रदद करने का निर्णय लिया जारोगा।

14. यदि प्लांट स्वामी के द्वारा उपलब्ध कराये गये अभिलेख गलत पाये जाते हैं तो इसकी सम्पूर्ण जिम्मेदारी स्वाट स्वामी की होगी तथा गलत अभिलेख पाये जाने की पुष्टि होने की दशा में प्लांट के नवीनीकरण की अनुजा

निरस्त किये जाने की कार्यवाही सम्पादित की जायेगी।

15. प्लांट स्वामी के द्वारा उत्तराखण्ड शासन, औद्योगिक विकास अनुभाग-1 की अविसूचना संख्या 906/VII-1/2020/158 ख-04 टीसी, दिनांक 15 जुलाई 2020 के द्वारा प्रख्यापित उत्तराखन्ड खनिज (अवैध खनन, परिवहन एवं भण्डारण का निवारण) नियमावली, २०२० में उल्लिखित समस्त शर्ता / प्रतिबन्धों का अनुपालन किया जाना सुनिश्चित किया जायेगा।

16. प्लॉट स्वामी के द्वारा मां० उच्च न्यायालय, मां० उच्चतम न्यायालय, मां० राष्ट्रीय हरित प्राधिकरण तथा कंन्द्र सरकार व राज्य सरकार द्वारा समय-समय पर निर्गत आदेशों का अनुपालन सुनिश्चित किया जाएगा।

> (एस०एल० पेट्रिक) अपर निवेशक।

संख्याः 235 4/स्टो०क्रे०प्लां०नवी०/खनन/मू०खनि०ई०/हरि०/2021-22, तददिनांकित। प्रतिलिपि:- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेत् प्रेषित।

1. सचिव, खनन, उत्तराखण्ड शासन, देहरादून।

2. निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड, देहरादून।

4. सदस्य सचिव, उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण गोर्ड देहरादून को इस आशय के साथ देवेत कि कृपया प्रदूषण नियंत्रण बोर्ड से सम्बन्धित मानकों को पूर्ण करने हेतु, जो भी शर्ते निर्धासित हैं उनका अनुपालन Consent to Operate देने से पूर्व कराने का कष्ट करें। संयुक्त निदेशक खनन/नोडल अधिकारी, मृतत्व एवं खनिकर्म इकाई, वेहरादून।

 सहायक भूवैज्ञानिक, भृतत्व एवं खनिकर्म इकाई, हरिद्वार। o. तलावच रूप्ता के हिंदू प्रांत श्री खालिद अली, ग्राम तेलपुरा, पोठ बुग्गावाला, जनपद हरिद्वे

अपर निदेशक।

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Test Report

Description of Sample: Design Mix M-30	ULR No.: TC786922000001492N
Sample Quantity: 1 Bag Each Sample	Report No.: PTLR/DDN/2022/187(33)
Sample Condition: Recept as OK	Letter Date: 15/03/2022
Sample Plan & Sampling Method: NA	Date of Receipt: 16/03/2022
Environment Condition (Temp. & Humidity): NA	Date of Festing: 16-26/03/2022
Addition to, Deviation or Exclusive from the method: NA	Date of Report: 28/03/2022
Letter Ref: DRA BIPL BAN/2022/065A	Page 1 of 4
N.O.W: Development of Water Supply & Sewerage System involv & Alied Work including 5 year Operation & Maintenance at Banja.	ing TW, OHT, Distribution Network, Trunk Sewei rawala, Pkg-2 Deliradur in Uttarakhand
Issued to:	

Mis DRA BIPL JOINT VENTURI Co. Blugan infracon Pvt 13d Occtaniali Enclave Jane no. 5, Mothrowala near Doon University

> Design Mix Text Data of M = 30 (As per 18-10262-2019, 18-456-2000, RA 2021)

1. Test Data: -	Test Value	Method of Test
Specific Gravity of ULTRATECH (43 Grade OPC)	3.15	1S 4031 (P-XI)-1988, RA 2019
Specific Gravity of Admixture	1.08	IS: 9103-1999 RA, 2018
Specific Gravity of Coarse Aggregate	2.68	IS: 2386 (P-III)-1963, RA-2021
I A	2.63	IS, 2386 (P-III)-1963, RA 2021
	() (90)	-15, 2386 (P-III)-1963 RA, 2021
	1.20	IS 2386 (P-III)-1963 RA, 2021
Free Surface Montare of Coarse Aggregate, %	NIL	1S. 2386 (P-III)-1963 RA, 2021
Free Surface Mosture of Faie Aggregate, "a w w	NIL	1S: 2386 (P-III)-1963 RA: 2021
	Specific Gravity of CLERATECH (43 Grade OPC) Specific Gravity of Admixture Specific Gravity of Coarse Aggregate Specific Gravity of Fine Aggregate Water Absorption of Coarse Aggregate, "o w w Water Absorption of Fine Aggregate, "o w w Free Surface Monsture of Coarse Aggregate, "o	Specific (travity of CLIRATECH (43 Grade OPC) Specific (travity of Admixture 1.08 Specific (travity of Coarse Aggregate 2.68 Specific (travity of Fine Aggregate 2.63 Water Absorption of Coarse Aggregate, % www 0.60 Water Absorption of Fine Aggregate, % www 1.20 Free Surface Moisture of Coarse Aggregate, % WWW 1.20 Still WWW 1

S. No.	Parameter Sieve Analysis	Test Value % Passing	Requirements as per 18:383-2016	Method of Test
	***************************************			3/ //www\\\
	40 mm	100	100	(Varieties) =
ii	20 nun	93.6	85-100	15-23XB(Part-1)-1963
iii	10 nun	12.5	0-20	RA 20210
ix	4.75 mm	1 1.2	0-5	Checked & Issued

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Test Report

i	For water-cement Ratio of 0.40 quantity = 20.0 ltr. of water
ii	Extra quantity of water to be added = (+)0.902 kg as water absorption of coarse agg is 0.60% w/w
	(+) 1 080 kg as water absorption of fine agg. is 1 20% w/w
iii	Actual quareity of water = 20 D+0 902+1 080 = 21 982 Kg

. Actual quantity of Coarse Agg. & Fin	e Agg. Required
Fraction-L 20mm	98.18-0.541 = 89,640 Kg
Fraction-II, 10mm	60.12-0.361 =59.760 Kg
Fine Aggregate	90.0-1.080= 88.920 Kg

9. Therefore, the actual quantities of different constituents required for the mix/bag of cement:-

Water	21.982 Kg
Cement	50,000 Kg
Fine Aggregate (Sand)	88.920 Kg
Fraction -1, 20 mm	89 640 Kg
Fraction -II, 10mm	59.760 Kg
Admixture	0.400 Kg

Remarks: Quantity of water may be decreased or stercased considering the free surface mosture of Aggregate

Page 4-4

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Test Report

6. De	esign Stipulations For M-:-30	
i	Characteristic Comp. Stg. required in the field at 28 days.	30.0 N/mm ²
ii	Maximum size of Aggregate, min	20
2 5 2	Workability (Slump), mm	50-100
iv	Degree of Quality Control	Good
	Larget mean strength after 28 days	38.25 N/mm ²
5.1	Admixture used	Super Plasticizer (Sika)

7. 1	Typical T	est Res	ult For M	-30					
	utities of ma oncrete in S		r cubic Meter addition				Concrete	characteristics wo	rkability
Mix No	Coment Ag	Water kg	Fine Agaregate Kg	Coarse Ngg Praction-1 60%, Ng	Coarse Agg Fraction - H 40%, Kg	Admisture (0.8%), Kg	Stamp,	Comp.Sigth by accelerated Builing method, as per 1S 9013 Norm ²	Eqvt Comp. Stgth: At 28 days, as per 18 9013, N. mm ²
8	395 (W.C.0.40)	158	712.73 (38.0%)	212.88	37336	3.16	70	19.75	40.48

8. Mi	is Proportion: -Cement	: Water : Fa : Ca : Admixture : 0.40 : 1.80 : 3.006 : 0.008
Mate	erial Required for the m	/bag of cement (50kg) for M-30
14.	Cement	EO DOVE 15
48.4	F # 6138/163	50.000 Kg
b.	Fine Aggregate (Sand)	90.00 Kg
	CA CONTRACTOR OF THE CONTRACTO	
b.	Fine Aggregate (Sand)	90.00 Kg

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Test Report

5 Sa.	Parameter Sieve Analysis	Text Value % Passing	Requirements as per 15:383-2016	Method of Test Ref. to:-
		1		
-	1.12.5 mgn	1181	[(K)	15-2386(Part-1)-196
11	10 man	873	85-100	RA 2021
111	4.75 mgs		0.20	
	To be entra	15	0.5	

4. Fraction of Coarse Agg.	
Fraction 1 (20mm) = 60 %	
Fraction 11 (10mm) - 40%	

No.	Parametet Siese Analysis	Test Value	Requirement as per 18-383-2016	Method of Test Ref. to:-
1	40 mm	664	1181	
11	70 mm	92.6	90,100	18-2386(Part-1)-1963 RA
144	10 090	42.3	28.35	2021
14	4.75 mm	2.4	13- [1]	

5. 50.	Parameter Sieve Analysis	Test Value	Requirement as per [8-383-2016	Method of Test Ref. to:-
-	143 mm	100	100	
-	4.25 mm	97.8	90-100	
iii	2.36 rpm;	85.6	75-100	1S-2386(Part-1)-1963 RJ
	1 18 mut	73.A	\$5.50	2021
- 11	600 Discrets	42.0	35-59	
	300 mscron	351	8-30	11/20
	1.50 max 100	3.6	0.10	Con a

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Test Report

i	Characteristic Comp. Stg. required in the field at 28 days	15 N mm ² (Min.)
ii	Maximum size of Aggregate, mm	20
iii	Workability (Slump), mm	100-150
iv	Degree of Quality Control	Good
v	Target mean strength, after 28 days	20.8 N/mm² (min.)
Ni	Administre used	Super Plasticizer (Sika)

Quantities of material per cutse Meter Of concrete in S.S.D. Condition							Concrete characteristics workability		
Mia No	tonent he	Water kg	Tare - Appregate Ap (18 (Pa)	Coarse Agg Fraction I GPL Kg	Coarse Agg Fraction II \$6% - Kg	Ashranture 10 5° a 1 kg	Shapp mm	Comp Sigth by accelerated Boiling method, as per IS 9013 Nomen	Eqvi Comp Sigih At 28 days, as per (\$ 9013, 'N' mm'
- I	200	1624	741.66	742.36	493.12	2.32	120	8.3	21.7

8. NI	is Proportion: -Cenent	Water : Fa Ca : Admixture 0.56 - 2.557 - 4.260 - 0.008
1 210	and Remused for the mi	bag of cement (50kg) for M-15
3.	I Cement	50 000 Kg
b.	Time Aggregate	127.85 Kg
c.	Coarse Aggregate	213 00 Kg
	Fraction-L 20mm	127.80 Kg (\$7.00 \\

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Test Report

d. Water					
i	For water-cement Ratio of 0.56 quantity= 28.0 ltr. of water				
ii	Extra quantity of water to be added - (+)1 278 kg as water absorption of course agg is 0.60 %, w.s.				
	(4) LS34 kg as water absorption of the agg. is 1.20 %w/w				
iii	Actual quantity of water = -28.0 + 1.278 + 1.534 - 30.812 Kg				

Fraction-1, 20mm	127.8-0.767-127.03Kg
Fraction-II, 10 mm	85 20-0 511 - 84 69 Kg
Fine Aggregate	127.85-1.534-126.316 Kg
refore, the actual quantities of	different constituents required for the mix/bag of cemen
	different constituents required for the mix/bag of cemen
refore, the actual quantities of Water Cement	different constituents required for the mix/bag of cemen 30.812 kg. 50.000 kg.

Remarks: Quantity of water may be decreased or increased considering the free surface moisture of. Aggregate

127.03kg.

84,09kg. 0,400 kg.

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Fraction-1, 20mm

Admixture

Fraction-II, 10mm

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Test Report

Sample Quantity: 1 Bag Lach Sample Sample Condition: Recept as OK Sample Plan & Sampling Method: NA	Report No.: PTLR/DDN/2022/187(30) Letter Date: 15/03/2022 Date of Receipt: 16/03/2022
Environment Condition (Temp. & Humidity): NA	Date of Testing: 16-26/03/2022
Addition to, Deviation or Exclusive from the method, NA Letter Ref., D&A 18021, BAN 2022, 088A	Date of Report: 28/03/2022 Page 1 of 4
N.O.W: Development of Water Supply & Sewerage System involve	
	assala, Pkg-2 Defendun in Ultarakhand
& Abed Work including 5 year Operation & Magnicinance at Banan Issued to: NISDRA-BIPLION LVEN ILRI Co-Bhugan infracon Portlid Gestanub Enclasse bine in -5.	awala, Pkg-2 Dehradun si Uttarakhand

Design Mix Test Data of M-20

(As per IS-10262-2019, IS-456-2000 RA 2021

S. No.	1. Test Data: -	Test Value	Method of Test
1	Specific Gravity of Ultra Tech Cement(OPC-43 Grade)	3.15	IS-4031 (P-XI)-1988 RA 2019
ii.	Specific Gravity of Admixture (Sika)	1.08	IS: 9103-1900
111	Speedle Gravity of Coarse Aggregate	2.68	1S 2386 (P-HI)-1963 RA 2021
iv	Specific Gravity of Line Aggregate	2.63	IS 2386 (P-H)-1963 RA 202
4	Water Absorption of Coarse Aggregate, law w	0.60	IS: 2386 (P-H1)-1963 RA 202
VI	Water Absorption of Line Aggregate, % w.w.	1.70	18: 2386 (P-H) - 1963 RA 202
viii	Free Surface Moisture of Coarse Aggregate, "a www.	NIL	IS 2386 (P-HI) 1963 RA 2021
1111	Free Surface Mosture of Fine Aggregate, "a w w-	NIL.	1S: 2386 (P-H1)-1963 RA 2021

S. No.	Parameter Sieve Analysis	Test Value	Requirements as per 18:383-2016	Method of Test Ref. (9)
	·	1	AII.	21 YX/13
1	43 mm	100	100	15-23860Part-19-1967R/
ii	20 mm	93 e	85-100	2071
818	10 (190)	12.5	0.20	Checked & Issued by
iv	4.75 mm	1 12	0-5	Authorised Signator

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Test Report

	r Analysis of 10mm			
5-50-	Parameter Sieve Analysis	lest Value % Passing	Requirements as per 18/383-2016	Method of Test Ref. to:-
1	The second secon	(6)	100	
- 61	O mass	1 5 4	85 100	[8-2386(Part-1)-1963
334	4 5 mm		0-20	RA 2021
14%	7.36 3388	13	0.5	

4. Fraction of Course Agg

Fraction (Frithman) - 40%.

s So.	Parameter Sieve Analysis	Text Value	Requirement as per 18-383-2016	Method of Test Ref. to:-
1	40 mm	(8)	100	
61	20 2200		90.100	1S-2386(Part-1)-1963 RA
212	10 mm	42.5	23.535	2021
12	1 4 3 mm	7.9	0-10	

,Νo.	Parameter Sieve Analysis	Test Value % Passing	Requirement as per 18-383-2016	Method of Test Ref. to:-
	10 mm	100	100	
-	1 4 75 mm	47.8	90-100	
111	1.2 Styman	85.6	75-100	IS-2386(Part-1)-1963 RA
33	18 mm	73.4	55.90	2021
v	(98.8) 1933, 23.81	52.0	35-59	Car a A
11	300 mscron	151	8-30	1870
X 11	150 ms run	1.6	0.10	181

Page 2.4

Checked & Issued by Authorised Signatory

- 1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither enferred nor implied,
- 2. Total liability of our lab is limited to the invoiced amount.
- 3 Samples will be destroyed after 90 days from the date of issue of test report.
- 4. This report is not reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be unadvestising media without our special permission in writing.

AHIOKOABAD







PARMAR TESTING LAB & RESEARCH CENTRE

(ISO Certified & NABL Accredited Lab)

Doon University Road, Near Shrv Vihar, Mothorowata, Dehradus (UK), 248001

Mobile +91 9068697634,635,636 I Email: parmartestinglabddn@gmail.com

www.parmarlabs.com

Test Report

ì	Characteristic Comp. Stg. required in the field at 28 days.	20 Nanmi (Mm.)
ii	Maximum size of Aggregate, min	20
111	Workability (Shinp), min	50-100
15	Degree of Quality Control	Crowd
	Target mean strength, after 28 days	26.6 N/mm² (min.)
	Admistrate used	Super Plasticizer (Sika)

Quantities of material per cubic Meter Of concrete in S.S.43. Condition					Concert characteristics workability				
Mis	Cenent Kg	No state of the st	fine Aggregate Kg : 38 10°43	Example Appl Impolente 2 estric Kill	t weeks Agg I response the Atge 8cg	Administra en en en kg	5/to expr.	temp sight by accelerated basing method, as per is 9013 Semm	Equitions Sight At 29 days, as pe is and 1 Neurol
	9510 690% 61524	187.2	6747 615	670.0	447.56	2 88	3003	11.6	27.1

S. NI	ix Proportion: -	Cement		Water 0.52	3	1-a 1-863		Ca 3 104	Admixture 0.008	
Mat	erial Required for the	e mix/bag of				for M-2	249			700 PA
19.	Cement			(HH) K.F.			- 22311			first Comment
35.	Fire Augregate	W07/11/10		15 KK						
C.	Course Agaregate		155	120 Ki						and the second of the second
	Fraction-L. 20mm		13.3	12 Kg						and the second second
-	Fraction-H. Dimon		6.2	OS Kg					Chr	ecked & Issued by
	A STATE OF THE STA				Pass	c 3/4				bedred Simplem

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither enferred nor implied.
2. Total Nability of our lab is limited to the invoiced amount.
3. Samples will be destroyed after 90 days from the date of issue of test report.
4. This report is not reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any adversarious ments without our courts are made to be used as an evidence in the court of law and should not be used in any advestising media without our special permission in writing

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PARMAR TESTING LAB & RESEARCH CENTRE

(ISO Certified & NABL Accredited Lab)

Doon University Road, Near Shiv Vihar, Mothorowala, Dehradun (UK), 248001

Mobile +91 9068697634;635,636 | Email. parmartestinglabddn@gmail.com www.parmarlabs.com

Test Report

31. 33	HECE	
1	For water correct Rates of 0.8	Property at the Original Control
11.	Extra quantity of water to be a	dded - (+10.7% kg as water absorption of course agg is 0.60% as w
		14 1 1 148 5 and accomplished of Course agg is 0 for "aw w
121	Actual quantity of water	(*) 11138 kg as water absorption of fine agg is 1/20 ° aw/w 26/0 * 0/178 + 1/118 * 27/896 kg
		The state of the s
e. 10	tual quantity of Coarse Agg	. & Fine Agg. Required
	I too twon-1, 200 mm	
	Fraction II, Billion	93 126-0 925 92 193 Kg
	Line Aggregate	62 080-0 372 61 708 Kg
		93 150-1 118-92 032 Kg
	-de-	
9. 3.15	civiore, the actual quantities	
		of different constituents required for the nux bag of cement:-
	Water	
		27.896 Kg
	Cement	50,000 kg
	Fine Aggregate	92.632 Kg.
E-0535-2"	Se Aggregate:-	W. W
	I raction -1, 20 mm	92.195 kg.
	Fraction II, 10 mm	61.70 Kg.
	1	27. U NE

Remarks: Quartity of water may be decreased or atercayed considering the free surface moisture of Appregate

0.400 kg

Page 4/4



Checked & Issued by **Authorised Signatory**

- 1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither enterred nor implied.
- 2. Total liability of our lab is limited to the invoiced amount.

Admisture

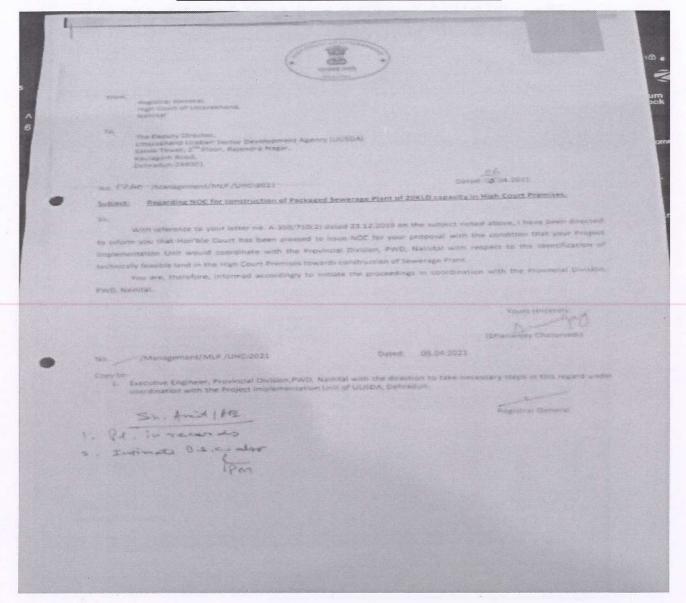
- 3. Samples will be destroyed after 90 days from the date of issue of test report.
- 4. This report is not reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advestising media without our special permission in writing







Letter for Permission of Road Cutting for Sewer line laying and Storm water drain work









Pollution Under Control Certificates of vehicles and equipment

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date

10/05/2022

18:33:40 PM

Validity upto

09/05/2023



Certificate SL. No. Registration No.

Date of Registration

Month & Year of Manufacturing

Valid Mobile Number

Emission Norma

PUC Code

GSTIN

UK00702000006391 UK17G4104

27/Dec/2017

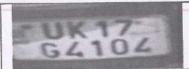
November-2017 *****1139 BHARAT STAGE IV

PETROL

UK0070200

Rs. 100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
2	3	4	5
Carbon Monoxide (CO)	percentage (%)	3.0	0.29
Hydrocarbon, (THC/HC)	ppm	3000.0	150.52
со	percentage (%)	0.0	0.0
RPM	RPM	2500 ± 200	0.0
Lambda		1 ± 0.03	0.0
Light absorption coefficient	1/metre	2	
	applicable) 2 Carbon Monoxide (CO) Hydrocarbon, (THC/HC) CO RPM Lambda Light absorption	applicable) 2 3 Carbon Monoxide (CO) percentage (%) Hydrocarbon, (THC/HC) ppm CO percentage (%) RPM RPM Lambda Light absorption	2 3 4

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by longing to https://vahan.parivahan.gov.in Chauhan Pollution Check Point

Authorised Signature with stamp of PUC operator 60mm x 20 mm

and Insurance
107, Canal Road, Ballupur
(Garhi Canti Road) Dehradun
Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date

10/05/2022 18:32:28 PM

Validity upto

09/11/2022

Certificate SL. No.

Registration No. Date of Registration

Month & Year of Manufacturing Valid Mobile Number Emission Norms

Fuel PUC Code

MIL observation

GSTIN Fees UK00702000006390

UP15BL9452 17/Jun/2014

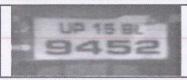
March-2014 ******1139 EURO 2

PETROL UK0070200

Rs.100.00(GST as applicable)

No

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
W 484 W 5 5	Carbon Monoxide (CO)	percentage (%)	3.0	0.25
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	3000.0	169.71
	со	percentage (%)	0.0	0.0
High Idling emissions	RPM	RPM	2500 ± 200	0.0
	Lambda	-	1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging of https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007

AHMEDABAD A





Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date : 10/05/2022
Time : 18:31:42 PM
Validity upto : 09/05/2023

 Fuel
 : PETROL

 PUC Code
 : UK0070200

 GSTIM
 :

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)	3.0	0.32
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	3000.0	103.49
	СО	percentage (%)	0.0	0.0
High idling emissions	RPM	RPM	2500 ± 200	0.0
	Lambda		1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logsing to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

10/05/2022 Date Time 18:30:14 PM

Validity upto 09/05/2023

UK00702000006388 Certificate SL. No. Registration No. UK08AT2263 Date of Registration 20/Dec/2018 Month & Year of Manufacturing October-2018 Valid Mobile Number ******1139 **Emission Norms** BHARAT STAGE IV

Fuel PETROL

PUC Code UK0070200 GSTIN

Rs.100.00(GST as applicable) Fees

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)	3.0	0.32
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	3000.0	114.5
	со	percentage (%)	0.0	0.0
High Idling emissions	RPM	RPM	2500 ± 200	0.0
emissions	Lambda	+	1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007





Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

:

Authorised By:

State Transport Department

10/05/2022

. 18:29:14 PM

Validity upto

09/11/2022



Certificate SL. No.

Registration No.

Date of Registration

Month & Year of Manufacturing Valid Mobile Number

Emission Norms

PUC Code

GSTIN

Fees MIL observation UK00702000006387

UK17D4505

18/Oct/2016

September-2016 *****1139

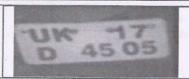
BHARAT STAGE III

PETROL

UK0070200

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
dline Police	Carbon Monoxide (CO)	percentage (%)	3.0	0.23
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	3000.0	177.18
	СО	percentage (%)	0.0	0.0
High Idling emissions	RPM	RPM	2500 ± 200	0.0
500000000000000000000000000000000000000	Lambda		1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance 107, Canal Road, Ballupur (Garhi Canti Road) Dehradun Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date Time 10/05/2022

Validity upto

: 18:25:35 PM

09/11/2022



Certificate St., No.

UK00702000006386

Registration No. Date of Registration UK08AJ5103 04/Jun/2015

Month & Year of Manufacturing

March-2015

Valid Mobile Number **Emission Norms**

BHARAT STAGE III

PETROL

PUC Code

GSTIN

UK0070200

Fees MIL observation Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)	3.0	0.24
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	4000.0	182.09
	со	percentage (%)	0.0	0.0
High idling emissions	RPM	RPM	2500 ± 200	0.0
	Lambda	-	1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point

and Insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007





Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

State Transport Department

Date

10/05/2022

Time

18:22:06 PM

Validity upto

09/05/2023

Certificate SL. No.

Registration No.

Date of Registration

Month & Year of Manufacturing

Valid Mobile Number

Emission Norms Fuel

PUC Code

GSTIN

Fees

MIL observation

UK00702000006384

UK07DQ5269

08/Nov/2019

May-2019

BHARAT STAGE IV

PETROL

UK0070200

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	3.0	0.27
enting Entitioning	Hydrocarbon, (THC/HC)	ppm	3000.0	141.17
	СО	percentage (%)	0.0	0.0
High idling emissions	RPM	RPM	2500 ± 200	0.0
	Lambda		1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance
107, Canal Road, Ballupur
(Garhi Cantt Road) Dehradun
Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

*

Authorised By:

State Transport Department

Date

10/05/2022

Time

18:24:24 PM

Validity upto

09/11/2022



Certificate SL. No.

Registration No.

itration No.

Date of Registration

Month & Year of Manufacturing

Valid Mobile Number

Emission Norms

MIL observation

PUC Code

GSTIN

Fees

UK00702000006385

UK14B1375

08/Feb/2016

November-2014 *****1139

71139

BHARAT STAGE III

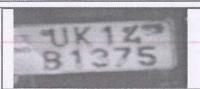
PETROL

UK0070200

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate

60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
* 41	Carbon Monoxide (CO)	percentage (%)	3.0	0.19
Idling Emissions	Hydrocarbon, (THC/HC)	· ppm	4000.0	175.69
	со	percentage (%)	0.0	0.0
High Idling emissions	RPM	RPM	2500 ± 200	0.0
	Lambda		1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance 107, Canal Road, Ballupur

107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007





Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date 10/05/2022

Time 18:20:34 PM

Validity upto 09/11/2022



Certificate SL, No. UK00701990001222 Registration No. UK07CB3937

Date of Registration 30/May/2018 May-2018 Month & Year of Manufacturing Valid Mobile Number

Emission Norms BHARAT STAGE III

DIESEL PUC Code UK0070199 **GSTIN**

Rs.100.00(GST as applicable)

MIL observation

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Tallian Parlantana	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	со	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	:#-:	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.73

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date

10/05/2022

Time

18:17:28 PM

Validity upto

09/11/2022



Certificate SL. No.

UK00701990001219

Régistration No.

RJ27EA4138

Date of Registration Month & Year of Manufacturing

09/May/2017 March-2017

Valid Mobile Number

*****1139

Emission Norms

BHARAT STAGE III

DIESEL

Fuel PUC Code

UK0070199

GSTIN

MIL observation

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate

60 mm x 30 mm



Sr. No.	Poliutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
tables Emissions	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
*	со	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.09

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by longing to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point

and Insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

.

Authorised By:

State Transport Department

Date Time 10/05/2022 18:18:25 PM

Validity upto

09/11/2022



Certificate SL. No.

Régistration No.

Date of Registration

Month & Year of Manufacturing Valid Mobile Number

Emission Norms

Fuel

PUC Code

Fees MIL observation UK00701990001220

RJ27EA4133

09/May/2017 March-2017

******4430

BHARAT STAGE III

DIESEL

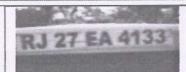
UK0070199

UK0070199

Rs.100.00(GST as applicable)

: No

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	со	percentage (%)		
High Idling emissions	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.38

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in Chauhan Pollution Check Point

Authorised Signature with stamp of PUC operator 60mm x 20 mm

and Insurance
107, Canal Road, Ballupur
(Garhi Cantt Road) Dehradun
Mob.: 8077720007

AHMEDABAD *





[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date Time 10/05/2022

Validity upto

18:27:46 PM

09/11/2022



Certificate SL. No.

Registration No.

Date of Registration

Month & Year of Manufacturing

Valid Mobile Number Emission Norms

Fuel

PUC Code GSTIN

Fees

MIL observation

UK00701990001223

RJ27EA4134

09/May/2017

April-2017

BHARAT STAGE III

DIESEL

UK0070199

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
7.41 F	Carbon Monoxide (CO)	percentage (%)		
dling Emissions	Hydrocarbon, (THC/HC)	ppm		
	со	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.11

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point and Insurance 107, Canal Road, Ballupur (Garhl Cantt Road) Dehradun Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date 10/05/2022

Time 18:19:41 PM

Validity upto 09/11/2022

Certificate SL. No. UK00701990001221

Registration No. RJ36EA0679 Date of Registration 20/Mar/2018

Month & Year of Manufacturing November-2017 ******1139 Valid Mobile Number

BHARAT STAGE III **Emission Norms**

DIESEL PUC Code UK0070199 GSTIN

Fees Rs.100.00(GST as applicable)

MIL observation

Vehicle Photo with Registration plate 60 mm x 30 mm



Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decima places)	
. 2	3	4 .	5	
Carbon Monoxide (CO)	percentage (%)			
Hydrocarbon, (THC/HC)	ppm			
со	percentage (%)			
RPM	RPM	2500 ± 200		
Lambda	-	1 ± 0.03		
Light absorption coefficient	1/metre	2.45	1.22	
	applicable) 2 Carbon Monoxide (CO) Hydrocarbon, (THC/HC) CO RPM Lambda Light absorption	applicable) 2 3 Carbon Monoxide (CO) percentage (%) Hydrocarbon, (THC/HC) ppm CO percentage (%) RPM RPM Lambda Light absorption	applicable) applicable) Emission limits 2	

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by https://vahan.parlvahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

Chauhan Pollution Check Point

and insurance 107, Canal Road, Ballupur (Garhi Cantt Road) Dehradun Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

State Transport Department

Date

10/05/2022

Time Validity upto 19:05:56 PM 09/11/2022

Certificate SL. No.

Registration No.

Date of Registration

Month & Year of Manufacturing Valid Mobile Number

PUC Code GSTIN

MIL observation

UK00701990001225

RJ02RC4308

24/Jun/2013

June-2013

EURO 3

DIESEL

UK0070199

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as Units (as applicable)		Emission limits	Measured Value (upto 2 decima places)
1	2	3	4	5
	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	со	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.04

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in Chauhan Pollution Check Point

Authorised Signature with stamp of PUC operator 60mm x 20 mm

and insurance
107, Canal Road, Ballupur
(Garhi Cantt Road) Dehradun
Mob.: 8077720007







Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :

State Transport Department

Date

10/05/2022

Validity upto

18:35:22 PM

09/11/2022

Certificate St., No. Registration No. Date of Registration UK00701990001224 RJ02RD7440 12/Aug/2016

Month & Year of Manufacturing Valid Mobile Number

August-2016

Emission Norms

EURO 3 DIESEL

PUC Code GSTIN

UK0070199

Mil. observation

Rs.100.00(GST as applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
raing emissions	Hydrocarbon, (THC/HC)	ppm		
	со	percentage (%)		
High Idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.15

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

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Authorised Signature with stamp of PUC operator 60mm x 20 mm

and insurance
107, Canal Road, Ballupur
(Garhi Cantt Road) Dehradun
Mob.: 8077720007







Labour Camp

Guidelines to be followed for establishing construction/labour camp

Camp sites shall be away from residential areas, sensitive areas 9 Schools, hospitals, etc.), water bodies and forests

Provide a proper fencing/compound wall

Prepare a site layout pan & display at the site

Use unused, vacant land, no trees will be cut

Entire site / Facility area shall be provided with hard levelled surface as appropriate, no loose soil , slush, water logging etc.

Living Quarters and Construction camps shall be provided with standards materials, no shack or huts Adequate lighting and ventilation

Provide drinking water, Water for other uses and sanitation facilities, drinking water should be regularly tested

Provide clear pathways for safe movement

Provide cooking fuel and a separate safe place to cook, fire wood not allowed

Construct septic tanks and soak pit arrangement for wastewater disposal

Solid waste should be properly managed-provide separate bins, compost, biodegradable waste, Camp sites shall be cleared and restores to original after completion of work, all debris, wreckage cleared

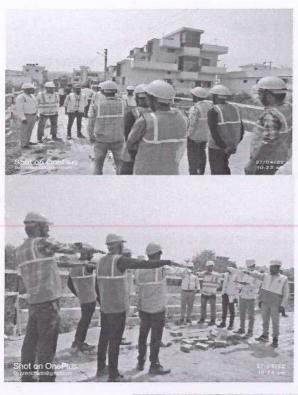
Fig: LABOUR CAMP LAYOUT







Safety Training













Spoil Management Plan

- The Spoil Management Plan should be site specific and be part of the monthly Construction
 Management Plan.
- The contractor, in consultation with the ULB, has to find out appropriate location/s for the disposal
 of the excess soil generated. The spoils should be deposited only at these sites.
 - Further precautions need to be taken in case of the contaminated spoils.
 - The vehicle carrying the spoil should be covered properly.
 - The spoils generating from each site should be removed on the same day or immediately after the work is complete. The site / road should be restored to the original condition.

Spoils information

The spoil information contains the details like a) The type/material, b) Potential contamination by that type, c) Expected volume (site/component specific), d) Spoil Classification etc.

II. Spoils management

The Spoil Management section gives the details of a) Transportation of spoil b) disposal site details c) Precautions taken d) Volume of contaminated spoil, if present, d) Suggested reuse of disposal of the spoil

III. Documentation

The volume of spoil generated (site specific, date wise), site disposed, reuse / disposal details should be documented properly.







Traffic Management Plan (TMP)

Name of Major Roads	Length of Road (M)	Width (M)	Traffic Density Low/Medium/High	Proposed Trench Width (M)	Types of Roads	TMP	Photographs
New Canal Road	1195.4 6	14.5	Medium	0.50	PWD	Sewer line will be laid on one side of the road, ensuring sufficient right of way	
Mothorawal a	2389.5	10	Medium	0.50 to 1.20	PWD	Sewer line will be laid on one	
					rise-	side of the road, ensuring sufficient right of way	
Doon University	2276.8	17.5	Medium	1 to 1.2	PWD	Sewer line will be laid on one side of the road, ensuring sufficient right of way	
Kargi Road	393.59	8	High	0.50 to 1.20	PWD	Closure of one side of the road and allow ROW to pedestria n and	AHMEDABA
		<u> </u>				two Wheelers	18





Table: List Of Main Roads Of The Project

SAFEGUARD ACTIVITIES INCLUDING COVID 19

EHS Plan for COVID Management at Construction Work Site

For

Package Title: Name of the Project – Development of Water Supply and Sewerage System involving TW, OHT, Distribution Network, STP, Trunk Sewer and Allied Works including Five Years Operation and Maintenance, at Banjarawala Package-2, Dehradun Uttrakhand

Package Number: WS&S-DDN-02







Document Detail and Control:

	Rev 00	Date			
	Department / Designation	Name	Signature		
Prepared by	Safety/EHS Officer	Mr. Ashish Bhatt			
Reviewed by	QA/QC Site Engineer	Mr. Swaroop Bhattacharya			
Accepted by (PMC) Approved by Client (UUSDA)					

Resumption of works planned to starts on: 12.04.2022.







Table of Content:

- I. Introduction
- II. Scope & Objective
- III. Reference Documents
- IV. General Instruction to Follow
- V. Work Procedure
- VI. Work-Site Prevention Practices
- VII. Precaution to Be Taken at Workmen Habitat/ Labour Camp
- VIII. Additional Control Measures
- IX. Resources Required

Annexure 1: Responsibilities and Accountabilities Matrix for Project Sites Annexure 2: Daily Safety checks for Resuming of work after Lockdown Annexure 3: IEC Posters for using at site







I. INTRODUCTION:

In January 2020, the World Health Organization (WHO) declare the outbreak of a new Corona Virus Disease (COVID-19) in China to be a Public Health Emergency of international concern. WHO and public health authorities around the world are taking action to contain the COVID-19 outbreak. However, long term success is only possible when all section of the society including construction workplace show their responsibilities to stop spreading of this disease.

This document gives advice on:

- 1. General instruction to follow to prevent the spread of COVID-19 in construction workplace
- 2. Detail (step-by-step) work procedure to getting the workplace ready under COVID-19 situation
- 3. Worksite prevention practice
- 4. Precaution taken at workmen habitat
- 5. Control measures taken for deploying new workmen at site

II. SCOPE & OBJECTIVE :

This document is not intended to replace any formalized procedures currently in place for the Contractor. Where this guideline does not meet or exceed the standards put forth by the Contractor, the Contractor shall abide by the most stringent procedure available.

The purpose of this Standard Operating Procedure (SOP) is to manage the risks, which could arise from exposure to COVID-19 when restarting/resuming projects & site activities post COVID 19 lock down.

III. REFERENCE DOCUMENTS:

a. IMS manual - IM- 09- A

Environment Health and Safety Integrated Management System Manual Conforming to ISO 14001:2015 and ISO 45001:2018

- b. Govt. of India Ministry of Home Affairs circular order dated 15-04-2020, No.40-3/2020-DM-I(A).
- Management Standard Operating Procedure (SoP) for Work Resumption dated on 20th April 2020.

IV. GENERAL INSTRUCTION TO FOLLOW:

- Non-essential physical work that requires close contact between workers should not be carried out
- Work requiring skin to skin contact should not be carried out
- Plan all other work to minimize contact between workers
- · Wash hands often with soap for at least 20 seconds
- Use hand sanitizer
- No person should enter the work site other than the authorized persons mentioned by supervisor during start of work





- All must implement social distancing by maintaining a minimum distance of 6-feet from others¹at all times to eliminate the potential of cross contamination.
- Avoid face to face meetings critical situations requiring in-person discussion must follow social distancing
- Conduct all meetings via conference calls, if possible. Do not convene meetings of more than 10 people. Recommend use of cell phones, texting, web meeting sites and conference calls for project discussion
- · All individual work group meetings/ talks should follow social distancing
- At each job briefing/toolbox talk, employees are asked if they are experiencing any symptoms, and are sent home if they are
- Each worksite should have laminated COVID-19 safety guidelines and hand washing instructions
- All restroom/toilet facilities should be cleaned, and hand washing facility must be provided with soap, hand sanitizer and paper towels
- All surfaces should be regularly cleaned, including tabletops /surfaces, door handles, laptops, records, etc.
- All common areas and meeting areas are to be regularly cleaned and disinfected at least once a day but preferably twice a day
- Be sure to use your own water bottle, and do not share
- To avoid external contamination, we recommend everyone bring food from home
- · Please maintain Social Distancing separation during breaks and lunch.
- Cover coughing or sneezing with a tissue, then throw the tissue in the trash and wash hands, if
 no tissue is available then cough /sneeze into your upper sleeves or elbow. Do not cough or
 sneeze into your hands.
- Clean your hands after coughing or sneezing thoroughly by using soap and water (minimum for 20 seconds). If soap and water are not available, please use a hand sanitizer. The Contractor shall ensure adequate quantities of sanitizer and soap are made available at all locations including site offices, meeting rooms, corridors, washrooms /toilets, etc. as appropriate.
- Avoid touching eyes, nose, and mouth with your hands
- To avoid sharing germs, please clean up after yourself. DO NOT make others responsible for moving, unpacking, and packing up your personal belongings
- If you or a family member is feeling ill, stay home!²
- Work schedules are adjusted to provide time for proper cleaning and disinfecting as required.

¹Social distancing may not be practical for undertaking certain specific activities within the workplace. It is therefore important to review the work method statements for these types of activities to assess impact and how to find safe ways of doing in line with best available guidance.

²The workers with no sick-leave would be supported with additional leave while affected by COVID-19 by the Contractor. The workers who must stay home because of COVID19 affected family member(s), the Contractor shall pay for the days for staying away from the work.













V DETAILED STEP-BY-STEP SEQUENCE OF ACTIVITIES AND TASKS INVOLVED IN PERFORMING THE TASK: (WORK PROCEDURE)

Step 1: Self-Declaration by Persons/Labour Prior to Work:

Prior to starting a work, each labour /worker will self-attest to the supervisor:

No signs of COVID-19 symptoms within the past 24 hours.







- No contact with an individual diagnosed with COVID-19. (contact means living with a positive person, being within 6 ft of positive person OR sharing things of positive person)
- Not undergone quarantine or isolation (in case of any labour/worker who has been quarantined or isolated previously, the engagement shall be only after obtaining the requisite clearance from trained and registered medical practitioner)

The engagement of workers falling in the high-risk category such as workers over the age of 55 years, with underlying medical conditions or health issues, etc. should be done only after obtaining the requisite clearance from trained and registered medical practitioners.

The self-attestation would be verified in collaboration with trained and registered medical practitioners deployed at site through discussions with laborers /workers and/or preliminary checks such as temperature checks, etc. prior to their engagement at site.

In addition, we will mandatorily follow all medical test requirements for the workers prior to their engagement and/or mobilization at site as per the guidelines issued by the Central and State government agencies and WHO from time to time.

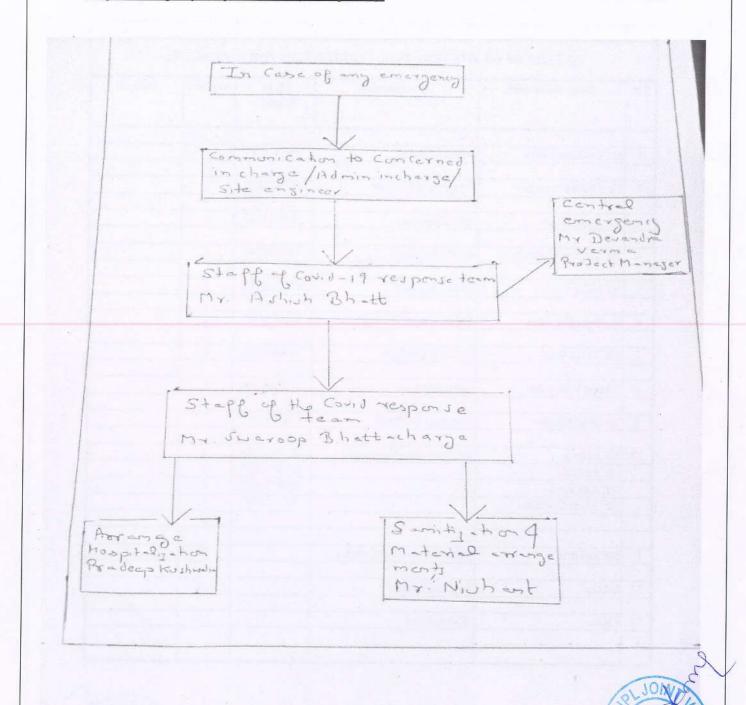
Persons/Workmen showing COVID-19 symptoms or not providing self-attestation shall be directed to leave the work site and report to the fever clinic/quarantinecenter immediately. Workman not to return to the work site until cleared by fever clinic/quarantine center.

Step 2: Emergency Response Plan in case of case of COVID 19 Exposure:





Step 3: Emergency Response Team (Site- specific):







Individual/s in charge & responsible of Covid-19 Response Team (CRT Members):

S.N.	Name of Personal	Designation	Phone Numbers	Numbers	Remarks
1	Mr. Devendra Verma	Project Manager	8953648939	1	
2	Mr. Shaheen Qureshi	Construction Manager	9660796600	1	
3	Mr. Ashish Bhatt	EHS Supervisors	7895331139	1	
4	Mr. Swaroop Bhattacharya	QA/QC Engineers	7617649246	1	
5	Mr. Nishant	Process Engineer	8307213430	1	
6	Mr. Devender Singh	Electro Mechanical Engineer	8529819796	1	
7	Mr. Kamal Soni	Hydraulic Engineer	7976343992	1	
8	Pradeep Kushwaha	Safety Engineer	7705905989	1	
9	Mr. Rohit Kumar	Trenchless Engineer	7337356056	1	
10	Mr. Ankush	Technical /Supervisory staff	8219450293	1	
	Mr. Subham Mr. Jigar Patel		9559169849 8849756877	1 1	
	Mr. Vivek Chauhan		7023114667	1	
				4	
11	Mason/Fitter	Skilled/Semi - Skilled workers		20	
12	Labour	Unskilled workers		50	
13	Labour	Workers-local		30	







Step 4: Identification of COVID-19 TYPICAL SYMPTOMS:

- Fever
- Cough
- · Shortness of Breath
- Sore Throat

Contact immediately the emergency response team in case of onset of even mild symptoms like fever, cough, malaise, sore throat without shortness of breath among any worker.

What to do if any workman shows symptoms of COVID-19 at site location:

- Report the information to Section in charge and IR & Admin department immediately.
- Quarantine the suspect from others & follow the steps defined above to handle suspect shows

Step 5: PRINCIPLES OF WORKERS PROTECTION:

- · Consistently practice social distancing.
- Ensuring PPE
- Maintain hand hygiene.
- · Clean surfaces frequently







Step 6: Precaution for Persons/Laborers Reporting to Work:

- IF SICK, STAY HOME!
- IF SICK, GO HOME!
- IF SOMEONE SICK, SEND THEM HOME!

All persons at the worksite should have their temperature screened with Infrared Thermometer (handheld non-contact).

Step 7: Identification of Staff & workmen at high risk:

- Wearing mask is mandatory for each employee/staff/workmen/client & consultant.
- Individuals with other comorbid conditions such as diabetics, blood pressure, renal ailments
- · etc. are at high risk from COVID 19 infection.
- · Hence, new workmen who falls in the above category shall not be deployed.
- Staff with the above conditions shall be instructed to take additional care & precautions from COVID 19.
- In addition to the precautions taken by other staff members, they shall consult a doctor and follow the precautions as per his advice.













Step 8: How to manage the risks due to COVID-19 during meetings:

Before the meeting:

- · Consider whether a face-to-face meeting or event is needed, plan for an online meeting using
- . MS teams, skype, or other mediums, or simply conference call.
- If the above step is not feasible, restrict the number participants with important people.
- · Ensure sufficient supplies and materials, including tissues and hand sanitizer for all
- participants. Have surgical masks available to offer anyone who develops respiratory
- symptoms.
- Advise participants in advance that if they have any symptoms or feel unwell, they should not attend.

During and after the meeting:

- Avoid handshake and practice ways to say hello without touching
- · Encourage regular hand washing or use of an alcohol rub by all participants at the meeting
- Encourage participants to cover their face with the bend of their elbow or a tissue if they cough
 or sneeze. Supply tissues and closed bins to dispose of them.
- Ensure everyone knows the location of alcohol-based hand rub.
- Arrange seats in such a manner so that participants are at least one meter apart to ensure
- social distancing is maintained.
- Open windows and doors whenever possible to make sure the venue is well ventilated.
- Soon after the meeting, the area shall be dis-infected, and dustbins shall be cleared.

Step 9: How to ensure controlled access inside project site & workmen habitat:

- First, avoid recruitment of new workmen at site. If required, take the approval from PM for
- deployment of new workmen.
- Avoiding entry of new workmen from known hotspots of COVID 19.
- Allocate separate rooms for the new workmen in the workmen habitat.
- · Ensure regular interval doctor visits to workmen habitat.
- Ensure Medical check-up by doctor.
- Use Contact less thermal scanning.

Step 10: Disinfection at workplaces and offices:

- . Ensure hand sanitizers are kept ready at the entrance of office & people after entry shall
- · sanitize their hands before proceeding to their work spots.
- Maintain regular housekeeping practices in offices & workplaces.
- Follow the manufacturer's instructions for use of all cleaning and disinfection products.
- Focusing disinfection efforts on frequently touched surfaces such as handrails, door
- handles, etc.,
- Conference rooms shall be disinfected before and after the meeting.
- Dining area shall be disinfected before and after the dinging hours.
- · Closed dust bin with inner cover shall be provided at all site office for disposing of usedmask





V. WORK-SITE PREVENTION PRACTICES:

- On day 0, before resuming the work on site post lockdown period, mandatory medical checkup will be arranged for all workers. Only medically fit workers will be deployed at site and medical assistance will be arranged for unfit workers. Medical check-up camp should be arranged every month.
- At the start of each shift, confirm with all employees that they are healthy and inform all
 workers of reusable and disposable PPE.
- Outside person should be strictly prohibited at worksite
- All construction workers will be required to wear cut-resistant gloves or the equivalent.
- Use of eye protection (reusable safety goggles/face shields) is recommended. The supply of
 eye protection equipment to the workers is considered as a standard part of PPE during
 construction works.
- In work conditions where required social distancing is impossible to achieve, such employees shall be supplied with standard face mask, gloves, and eye protection.
- All employees shall drive to work site in a single occupant vehicle. Staff shall not ride together in the same vehicle
- When entering a machine or vehicle which you are not sure you were the last person to enter, make sure that you wipe down the interior and door handles with disinfectant (with 1% sodium hypochlorite solution daily) prior to entry. Adequate quantity of the disinfectant shall be provided by the Contractor at all such site-specific locations.
- Workers should maintain separation of 6' from each other.
- Multi person activities will be limited where feasible (two persons lifting activities)
- gathering places on the site such as sheds and/or break areas will be eliminated, and instead small break areas will be used with seating limited to ensure social distancing.
- Contact the cleaning person of the worksite and ensure proper COVID-19 sanitation
 processes. Increase cleaning/disinfection visits to at least 2 times a day. Cleaning person(s) to
 be provided with gloves, gown and face mask for each cycle of cleaning. The Contractor shall
 make available adequate supply of PPE and chemicals while the threat of COVID-19
 continues.
- Clean all high contact surfaces a minimum of twice a day in order to minimize the spread of germs in areas that people touch frequently. This includes but is not limited to desks, laptops and vehicles
- Maintain your good health by getting adequate sleep; eating a balanced, healthy diet, avoid alcohol; and consume plenty of fluids.
- Continuation of works in construction project with workers available on site and no workers to be brought in from outside
- The site offices shall have adequate ventilation. The air conditioning or ventilation systems
 installed at the site offices would have high-efficiency air filters to reduce the risk of infection.
 The frequency of air changes may be increased for areas where close personal proximity
 cannot be fully prevented such as control rooms, elevators, waiting rooms, etc.
- The Contractor shall carry out contactless temperature checks for the workers prior to site entrance, during working hours and after site works to identify persons showing signs of being unwell with the COVID-19 symptoms







WASHING FACILITY:

- All worksites should have access to toilet and hand washing facility.
- Providing hand cleaning facilities at entrances and exits. This should be soap and water wherever possible or hand sanitizer if water is not available
- Washing facility with hot water, and soap at fire hydrants or other water sources to be used for frequent handwashing for all onsite employees
- · All onsite workers must help to maintain and keep stations clean
- If a worker notices soap or towels are running low or out, immediately notify supervisors
- Garbage bins will be placed next to the hand wash facility for discarding of used tissues/towels with regular removal and disposal facility (end of each day)

CLEANING PROCEDURES:

Increase cleaning/disinfection visits to at least 2 times a day. Cleaning person(s) to be provided with gloves, gown, and face mask for each cycle of cleaning.

Each worksite should have enhanced cleaning and disinfection procedures that are posted and shared including sheds, gates, equipment, vehicles, etc. and shall be posted at all entry points to the sites, and throughout the project site. These include common areas and high touch points like

- · Taps and washing facilities
- · Toilet flush and seats
- · Door handles and push plates
- Handrails on staircases and corridors
- · Lift and hoist controls
- Machinery and equipment controls
- Food preparation and eating surfaces
- Telephone equipment / mobiles
- Keyboards, photocopiers, and other office equipment

Re-usable PPE should be thoroughly cleaned after use and not shared between

workers. LEVERAGING DIGITAL TECHNOLOGIES:

- Digital apps such as VIEW EHS, WISA & Other productivity apps shall be religiously used to track the movement of workmen, induction of new workmen and hours of work.
 - VIEW EHS shall be used to obtain Safe Execution Card for each and every activity.







- Permit toWork shall be obtained before continuing with any major critical activity.
- Regular training shall be delivered using digital means such as Microsoft Teams and Induction Videos to raise awareness among workmen regarding personal hygiene.
- Use Digital Dashboards to conduct reviews of work progress through virtual meetings and Digital DPRs.
- Avoid forwarding misleading or unverified messages to staffs & Workmen, which may lead to serious health hazards or psychological impacts.

VI. PRECAUTION TO BE TAKEN AT WORKMEN HABITAT/ LABOUR CAMP:

- Masks (homemade3 can be thought of) to be provided to all the persons/Workmen for use at the camp site as well as at the worksite. Increase cleaning/disinfection visits to at least 2 times a day. Cleaning person(s) to be provided with disposable gloves, gown, and face mask for each cycle of cleaning.
- All shall be advised to wear mask always while at colony, movement outside and during duty timings.
- Regular Health monitoring drives shall be conducted at habitat camps.
- Pictorial posters in local language shall be placed across the workmen habitat to create awareness on maintaining self – hygiene and respiratory hygiene.
- · Vehicle shall be kept ready or tip up for vehicle shall be made for emergency purpose.
- Minimum social distancing shall be ensured in keeping occupants in a single room.
- . Disinfecting spray done at all the areas of colony after workers are left for work daily
- Regular inspection of Workmen Habitat shall be done by HR(W), Admin & IR, EHSO and Project Manager and details of visit shall be recorded.
- Display the Emergency Contact Nos in the Workmen Habitat and also the COVID-19 Helpline nos.
- Daily screening and health check of the cooks and helpers at the guest houses and camps.
- Special care shall be given to fomites (objects, places, utensils that are bound to be touched by staffs) such as doorknobs, handles, hand railings etc. during disinfection
- Dedicated hand washing facilities with soap shall be kept at conspicuous locations in the workmen habitat with sign boards for DO's and DON'T's in hand washing.



³Advisory on use of Homemade Protective Cover for Face & Mouth by GOI





Toilet Facility:

- Restrict the number of people using toilet facility at any one time e.g. appoint one welfare attendant among the labours.
- · Wash hands before and after using the facilities
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently
- · Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

Eating Area:

- Provide a means of heating food and making hot water, these are exceptional circumstances and where it is not possible to introduce a means of keeping equipment clean between uses, etc. must be removed from use.
- Contractor to arrange all daily need items and grocery at site itself and no worker can go to shops for daily need items.
- Dedicated eating areas should be identified on camp to reduce food waste and contamination
- Break times should always be staggered to reduce congestion and contact
- Hand cleaning facilities or hand sanitizer should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area
- Workers should sit 2 meters apart from each other whilst eating and avoid all contact
- Where catering is provided on camp, it should provide pre-prepared and wrapped food only
 - Payments should be taken by contactless options wherever possible
 - o Crockery, eating utensils, cups etc. should not be used
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced
- · Tables should be cleaned between each use
- All rubbish should be put straight in the bin and not left for someone else to clear up; only
 covered pedal operated bins should be used and the bins should be cleared and cleaned
 regularly,with strict adherence to safety protocols for disposal and hygiene maintenance
 (including proper PPE's such as gloves, mask and apron worn by the waste handler/cleaner
 and disposal at a designated place);
- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, etc.

Changing Facilities. Showers and Drving Areas:

- Always introduce staggered start and finish times to reduce congestion and contact
- Introduce enhanced cleaning of all facilities throughout the day and at the end of each day
- · Consider increasing the number or size of facilities available on camp if possible
- Based on the size of each facility, determine how many people can use it at any one time to maintain two meters
- · Provide suitable and sufficient garbage bins in these areas with regular removal and disposal.



















VII. ADDITIONAL CONTROL MEASURES TAKEN FOR DEPLOYING ANY NEW WORKMEN AT SITE:

Screening:

Apart from the regular information collected during the screening process, additional self – declaration form (refer annexure-2) shall be obtained to identify the COVID-19 risk level of workmen. This information shall include:

- Place of his latest stay (to identify whether, it is a hotspot)
- Contact with any confirmed or suspected COVID 19 individual
- Contact with persons who have a travel history to hot spots
- Whether they have any symptoms for COVID 19

Medical Check-up by Doctor:

- · All workmen shall be subjected to stringent medical check-up by the medical practitioner
- before allowing for EHS Induction.
- The doctor shall consider the additional information provided by the workmen in the
- screening, while checking the workmen.

EHS Induction:

- · Number of workmen participating in EHS Induction shall be restricted to maintain the
- · social distance during training.
- . In addition to the regular EHS induction, workmen will be trained on COVID 19 risks and
- the precautionary measures, covering the following topics:
- Symptoms of COVID 19
- How virus spreads
- Importance of maintaining social distancing
- Importance and DO's and DON'T's of hand washing
- Overview of the precautionary measure taken at site for COVID 19
- Roles & Responsibility of workmen specific to the precautions towards COVID 19
- Reporting in case of symptoms like Flu







Training & Awareness:

 All the staff members, ERT Members, Supervisor & all workmen shall be trained specific to COVID 19 risks and controls measures through regular interval CWT (contractor workmen training), Site specific Trainings & daily PEP talks.



Setting up Quarantine at site quest house or Workmen Habitat:

Quarantine refers to separation of individuals who are not yet ill but have been exposed to COVID-19 and therefore have a potential to become ill. There will be voluntary home quarantine of contacts of suspect /confirmed cases to prevent community transmission

Guidelines for setting up home guarantine:

- Allocate a separate room with adequate ventilation at Workmen habitat/ Guest house. Other staffs & Workmen should stay in another room or should be separated from the returnee.
- · Maintain at least one-meter distance from staff & workmen.
- The room shall be equipped with separate toilets, washroom, and cleaning facility. In case it is not possible, cleaning of taps, doorknobs and utensils with soap and water are a requirement after every use.
- · Minimize visitors to the guest house, the returnee should not interact with any visitors.
- Frequent hand washing with soap and water for at least 20 seconds at a time and maintain alcohol-based hand hygiene in instances where hand washing facilities are inadequate
- Avoid touching eyes, nose, and mouth with unwashed hand
- The home quarantined person shall monitor body temperature using a thermometer twice a
 day. If he/she develops fever, cough, difficulty in breathing, sore throat, body aches and pain,
 including flu like symptoms, immediately inform nearby local authorities.
- After use, disposable facemasks and gloves should be properly discarded without reuse, preferably in a closed container.
- Assign separate dishes, drinking glasses, cups, eating utensils, towels, bedding, and other items for the quarantined person
- Used utensils, bed linen and clothes should be washed with soap and water.
- Transportation of suspected individual shall be arranged through emergency or ambulance vehicle only.
- To avoid any social stigma, the name of the suspected staffs shall not be declared or mentioned in any public forum.
- Provide moral support and motivation to the quarantine or suspected people. Encourage them
 to participate in online trainings, quizzes & other recreational activities.
- Encourage them to be continuous touch with family & friends through phones, laptops, social media etc.







VIII. PLAN THE RESOURCES REQUIRED:

Resources required specifically managing the COVID 19 risk shall be identified, planned, procured, and made available at site in adequate quantities. The resources which are required to manage COVID 19 risks may include:

- Thermal scanners.
- Contactless attendance system.
- Liquid Soap & Hand washing arrangement at site in workmen habitat
- Team for cleaning & disinfection.
- Nose masks for teams who are screening workmen, conducting medical checkup & disinfection.
- Hand gloves for teams who are screening workmen, conducting medical checkup & disinfection.
- Quarantine Facilities for accommodating symptomatic workmen.
- · Additional rest areas at sites and dining spaces in Workmen habitat
- Ensure availability of Ambulance equipped with all necessary items like nose masks, first aid kits, aprons, disinfect solutions etc.
- First aid kits with hand sanitizers and hand wash liquids shall be mandatory available in all the vehicle without any lapses.

COVID19 Special PPE's:

Surgical mask (Fold, tie, wrap) – Change the mask after six hours or as soon as they become wet. Since it is a disposable type mask, cannot be disinfected or reused after one single use. It should be removed chin upwards and please take care to remove it from the strings and be careful not to touch the front portion while taking off the mask. After taking the mask off, please fold it half inwards, such that droplets from mouth and nose are not exposed. Then, fold the mask into another half, until it looks like a roll. The mask can also be wrapped with its ear loops so that it will not unravel. Then wrap the mask in a tissue paper or polythene bag and immediately discard it in the Yellow bag. Keep the things handy before disposing it off.

AHMEDABAD





Reusable Mask/Washable Face Cover – A face cover is good method for maintaining personal hygiene. A pair of face cover shall be made available so as to use one while another can be washed. Used face cover should be kept safely, washed regularly and properly with soap solution and dried properly before they are reused. Hand sanitization shall be done before putting the cover on and after removal. This type of mask/cover is only suitable for people who are not suffering from any medical condition including breathing difficulty.

Hand Gloves – Outside of gloves should be considered contaminated. Using a gloved hand, grasp the palm area of the other gloved hand and peel off first glove. Hold removed glove in gloved hand. Slide fingers of naked hand under remaining glove at wrist and peel off second glove over first glove. Discard gloves in a Yellow bag.

Note:

- Sharing/exchanging of any kind of PPE is strictly prohibited.
- PPEs including face cover shall not be used in any way and shall be kept clean.
- All PPEs shall be replaced if user comes in contact with any sick person or person showing symptoms of infectious disease.
- Hand sanitization shall be done before putting on PPEs and after removal.
- No injection, vaccine, tablet, capsule or any other chemical component shall be disposed of using this document.
- IX. Guideline and Advisory to use PPE:

Selection of Mask as per use:

While Mask selection, should consider the following:

- 1) Purpose of mask use: the rationale and reason for mask use should be clear—whether it is to be used for source control (used by infected persons) or prevention of COVID-19 (used by healthy persons)
- 2) Risk of exposure to the COVID-19 virus in the local context: The population: current epidemiology about how widely the virus is circulating (e.g., clusters of cases versus community transmission), as well as local surveillance and testing capacity (e.g., contact tracing and follow up, ability to carry out testing). The individual/employee: working in close contact with public (e.g., workmen at living areas)
- 3) Vulnerability of the employee/population to develop severe disease or be at higher risk of death, e.g. people with comorbidities, such as cardiovascular disease or diabetes mellitus, and older people
- 4) Setting in which the site located/activities in-progress in terms of population density, the ability to carry out physical distancing (e.g. on a crowded bus), and risk of rapid spread (e.g. closed settings, office-setups, habitats, guest houses).
- 5) Feasibility: availability and costs of the mask, and tolerability by individual employees.
- 6) Type of mask: medical mask versus nonmedical mask







In addition to these factors, potential advantages of the use of mask by healthy people in the community setting include reducing potential exposure risk from infected person during the "pre-symptomatic" period and stigmatization of individuals wearing mask for source control.

However, the following potential risks should be carefully taken into account in selection of the right mask:







self-contamination that can occur by touching and reusing contaminated mask
☐ ☐ depending on type of mask used, potential breathing difficulties
□ □ false sense of security, leading to potentially less adherence to other preventive measures such as
physical distancing and hand hygiene
☐ ☐ diversion of mask supplies and consequent sbrtage of mask for health care workers
□□ diversion of resources from effective public health measures, such as hand hygiene Whatever
approach is taken, it is important to develop a strong communication strategy to explain the
employees (including workmen) the circumstances, criteria, and reasons for
decisions. The employees should receive clear instructions on what masks to wear, when and
how, and on the importance of continuing to strictly follow all other SOP and COVID19
precautionary measures being shared (e.g., hand hygiene, physical distancing, and others).

Disposal Methodology:

Disposal Method 1:

The bio medical waste generated at the site during medical check-up, blood donation camp or as a preventive measure taken against infectious diseases shall be collected separately in yellow coloured non-chlorinated plastic bags, clearly marked as "BIOHAZRD" and given to authorized dealer or A Common Bio-medical Waste Treatment Facility (CBWTF) for disposing the waste.

Disposal Method 2:

A MOU shall be signed between the organization and a hospital having waste treatment facility in its premises or is connected under waste collecting network of CBWTF.

Disposal Method 3:

If CBWTF or any other licensed agency is not available near the work location, waste generating authority can establish an incineration facility after obtaining approval from CPCB as per Bio-Medical Waste (Management and Handling) Rules, 2016.

- 1. Used mask, hand gloves and gown should be considered as potentially infected, therefor safe disposal of all the biomedical waste shall be take care of.
- 2. All biomedical waste generated at the site should be collected in an identified trash bin with "BIOHAZARD" marking on it. Use a Yellow bag inside trash bin to prevent cross contamination.
- 3. This waste should be disinfected using sodium hypochlorite solution (1%) only if suspected to contain microorganisms.
- 4. Dispose through incineration process by an authorized and trained person equipped with appropriate PPEs. Complete combustion shall be ensured.
- 5. Ash from incineration of biomedical waste can be disposed of in municipal landfill.
- 6. Waste can be buried at the deep burial facility located as per the provisions and guidelines issued by Central/State Pollution Control Board.
- 7. All the records & pictures shall be maintained viz. quantity of PPEs and disposal date and person responsible for safe disposal.



















Annexure1: Responsibilities and Accountabilities Matrix for Project Sites

Process	P D/PM	Acets & Admi n	Sectio n IC	All staff	EHS O	ERT Team	Superviso r	Camp Boss/ IR	Workmer
Conducting Meeting regarding this SOP before restarting the Works	A	R	R		R	R			
Preparing a site- specific action Plan	A	R	R		R	R			
Screening of workmen		A	R	R	R		R		R
EHS Induction		R			Α		R	2	R
Access Control measures		A	R	R	R		R		R
Training on COVID 19 response		R		R	A	R	R		
Dis infection		A		R	R		R	R	
Risk Control in Workmen Camp		A						R	
Social distancing in site office & facilities	A	R	R	R	R	R	R		
Pre startup checks location / area wise	A	R	R	R	R		R	R	
Promoting Self Hygiene & Respiratory Hygiene		R		R	A		R	R	
Display of posters for COVID 19 Response	R	R			A				
Organizing resources for COVID 19 response		A	R		R	R			72
Maintaining social distance	Α	R	R	R	R	R	R	R	R
Monitoring of compliance	Α	R	R		R		R	R	
Reporting in case of symptoms		A	R	R	R	R	R	R	R
Checks for COVID during safe to start of activities				A	R		R		
Periodical review	Α	R	R		R	R			
Emergency Response	Α	R	R		R	R	10	R	

A –
Accountability R
– Responsibility
SI – Section In charges
SE – Site Engineers

ERT – Emergency Response Team







2: Daily Safety checks for Resuming of work after Lockdown

Name of the Project (with Job code): Project Director/Project Manager; Facility Location and In-charge;

Segment/Cluster: Segment Head/Cluster Head/Taskforce Leader: Date:

S. No	Checklist Points	Yes/No	Observation	Measures
1.	Disinfection and cleaning of the Kitchen area on daily basis			
2.	Cooks and helpers shall wear head band, masks and hand gloves		2,	
	while preparing & serving food to staffs and workmen			
3.	Serving times shall be staggered to avoid overcrowding and			
	maintaining social distancing			
4.	Maintain register to record the cleaning activities at Kitchen, Guest			
100 100	house & Offices			
5.	Dedicated hand washing facilities with soap shall be kept at			
	conspicuous locations in the workmen habitat with sign boards for			
	DO's and DON'T's in hand washing			
6.	Whether Pictorial posters in English & local language are placed			
	across the Offices & workmen habitat to create awareness on			
	maintaining self – hygiene and respiratory hygiene?			
7. 8	Ambulance /Emergency Vehicle shall be available			
8.	MoU with Nearby Hospital/ COVID Testing centre for providing			
9.	faster medical facilities to suspected COVID cases. Minimum 1M social distancing shall be ensured while keeping			
9.	occupants in a single room			
10.	Whether Disinfecting spray is done at all the areas of colony after			
10.	workmen left for work daily?			
11.	Emergency Contact & COVID-19 Helpline Nos shall be displayed	particular second		
1.1.	across Offices and Workmen Habitat area.			
12.	For quarantine purpose, separate room with adequate ventilation			
100	at Workmen habitat/ Guesthouse shall be maintained.			
13.	Quarantined workmen/staff shall be monitored for COVID			
	Symptoms and thermal scanning shall be carried out on daily			
	basis			
14.	After use, disposable COVID Specific PPEs should be discarded			
	through approved hazardous/medical waste vendors.			
15.	Transportation of suspected individual shall be arranged through			
	emergency or ambulance vehicle only.			4
16.	Employees shall work from their seats and avoid going to other's			
C NOCCULION	seats			
17.	Discussions and interactions shall be held to the maximum			
	possible extent using desk phones and mobile phones			
18.	Meetings shall be avoided as far as possible and implementing	0-1/02/44/00/00		
	VC / Conf calls / other modes.			
19.	All employees to be strictly adhere to the social distance of			
	minimum 1 meter during meeting all other interactions			
20.	Avoiding hard copy files where ever possible and soft copy			
	correspondences / approvals to be encouraged using emails.	*		
21.	digital sign-offs etc. Whenever possible employees shall be encouraged to bring			
21.	home cooked food and having lunch at their office desks			
22.	Office helpers who are serving food and cleaning utensils shall be	all and the same		
22.	regularly screened using thermal scanners & they must			X = X = X
	mandatorily wear masks and hand gloves all times.			1 V
23.	For common mess areas the lunch timings shall be staggered and			
	necessary seating arrangements shall be in place to implement			
	social distancing.			
24.	All meeting rooms shall be sanitized after and before the meeting/			
TO WAY TO SEE	training	CHARLES AND THE PARTY OF		
25.	Whether the meeting area is well-ventilated?			
26.	Minimization of the attendees or limiting the attendees based on			
	the room size and mandatory maintaining of social distancing			
	shall be ensured			
27.	Surgical masks shall be available with all the staff & the staff with			
	masks shall be allowed to attend the meeting or training.			
28.	Sufficient no. of hand sanitizers and tissue papers shall be			
	available in the conference room			
29.	Handshakes shall be avoided & staff should carry their own water			
	bottles inside the conference room			

IR/ ADMIN

EHSO

SECTION INCHARGE / Admin-Accts In charge

Overall Head (PM/PD/TFL)





Narre of the Project (Cth Job code): Project Director/Project Manager: Site Loaton/Zone: Segment/Cluster Segment Head/Cluster Head/Taskfbrce Leader Date:







S. No	Checklist Points	Yes/No	Observation	Measures
1.	Subcontractors shall understand, sign & comply Cth the requirements of EHS Code of practice, IMS Standard & Legal requirements.			
2.	Screening and EHS Induction of New Workmen/ Staff/ Sub-contractor.			
3.	If he/she is travelling from any Identfied/known COVID 19 hot spot, they shall			
	be quarantined and social distancing & regular checks for symptom to be			
	ensured.			
4.	If any person having fever and cough wth breathlessness, the person shall			
	be taken to nearest COVID testing centre/Government hospital.			
5.	Nonew Y\orkers (without valid pass) shall be allowed at work locatons			
6.	Vehicle & Goods shall not be allowed without valid permission & disinfection			
7.	Hand sanitizers shall be kept ready in the entrances and people after enby	-		
	shall sanitize their hands before proceeding to work locations			
8.	Bio-rretfic (Finger touch) swiping for attendance shall be temporarily discontinued with alternatives such as ID card swiping, retina or face detection		Sub-	
9.	Access control shall be implemented at all entry points to prevent unauthorised & unscreened workmen/staff entry to v\ark locations.			
10.	Social distancing shall be maintained during vlorkmen & staff transportation			
11.	While at site caring COVID specific PPEs and using hand sanitizers at			
	regular intervals shall be ensured			
12.	Employees shall keep themselves hydrated and shall maintain social distancing at the site			
13.	Immediately report any symptoms of infecson such as runny nose, cough.			
13.	difficulty in breathing, fever etc.			
14.	Ensure ie up wth Hospital/COVID 19 testing centers for handling suspected			
	COVID cases and emergencies.	12		
15.	Disinfecton of company vehicle at regular intervals to prevent contaminaton			
16.	Workmen shall be instructed to maintain social distancing of 1m during Pep			
	Talk. Meals tirre, Construction activities, transportaton, staying etc.	114		
17.	Dally Pep-talk shall contain the awareness about COVID 19 and preventive			
	treasures and identify suspected cases using Thermal scanners.			
18.	Sub-contractor shall keep sanitizer/ hand wash soap solutons, water in sufficient quantty at all common points			
19.	Posters on do's and donts shall be displayed at the work location by the site			
19.	management and the sub-contractor in Hindi or other local language			
20		-		
20.	Ensure all Scaffolds, formworks, work platforms and ladders are disinfected. inspected and are in good shape before use			
21	All Plant and Machineries & tools and tackles shall be disinfected before use			
22.	Ensure all safety appliances and accessories including COVID specific PPEs are available at site before starting the work activity			
23.	Footoperated waste bin Cth disposable garbage bag shall be used for waste collecton across the site.			
24.	VIMEHS shall be used to generating Safe Execution Card, understanding			
	SoP. filling Checklist and providing Pep Talks for all activites at site.			
25	Regular training to be delivered using digital platform such as MIcrosot			
	Teams. RaPL, Induction Videos to raise awareness arrong workmen and staff on Personal hygiene. Sanitation, RBT. EHS Alerts & SoPs.			
26	UseVM EHS Dashboards to conduct work progress review/EHS committee meeting through Microsoft Teams.			
27.	EHSO shall train all the ERT members on COVID 19 errergency response			
ZE/ZBOVAL	and their roles & responsibilites			
28.	In case of COVID19 Positive or Suspected Case, ensure quarantining of the Individual and Inform Cluster/ Segreent/ BU/ SBG/ IC level authorities			
29	Disposal of Bio-Hazardous Waste (infected clothes, PPEs etc.) through approved vendors as per SoP.			
30.	Ambulance/ Vehicle shall be standby for handling medical emergencies			
31.	Flow chart in Hindi & English version (Appendix to SoP) shall be displayed at			7 - 1
01.	conspicuous locations for awareness to Project team			







Annexure 3: IEC Posters for using at site





HOW TO WEAR A MEDICAL MASK SAFELY

who.int/epi-win

Do's →



Wash your hands before touching the mark



Inspect the mask for tears or haves



Find the top side where the metal plece or stiff edge is



Ensure the colored-side faces outwords



Place the metal piece or stiff edge



Cover your reauth, none, and other



Adjust the most to your face without leaving gaps on the sides



Avoid touching the matk



Remove the mark from belief the ears or



Keep the most party from you and surfaces while removing it



Oticard the mass iromadionally after use preferably into a closed bin



West your hands other discording the reads

Don'ts →



Do not Use a risped or damp mask



Do not wast the mask only over mouth or nose



Do not wasno loose mosk



Do red touch the freed of the mask



Do not remove the most to took to comeone or do other Usings that would require tourising the mask



Do not below your stad mask within the reach of others



Denet re-use the

from others and wash your hands frequently and thoroughly, even while wearing a mask.

ER*MN







DOS and DONTS:

OO N"TS



Limited PP6s for





Housekeeping sof to use prescribed PPEs





Weekly cleaning of all workstoce surfaces





Frequent cleaning/ sanitisation of oil workplace/ offices





Twice a day cleaning / disinfection of Washrooms/ tollets





All workplace surfaces to be cleaned/ sunitised end of every shift





Frequent physical meetings





Online meetings (strett existed distancing to chysical meeting

DON'TS OR*S







No face mask required by employees in offices





Mandatory face mask of oil times of work























Guidelines on Preventive measures at Work Place

BASELINE ENVIRONMENTAL MONITORING

Environmental Monitoring Plan - Ambient Air, Noise, Water and Soil

- 1. Under UUSDA works Environmental Monitoring will done for ambient air, noise, surface water, ground water and soils with following parameters-
 - A. Ambient Air Quality- Particulate Matters PM10, Particulate Matter PM2.5, SOx, NOx, Carbon Monoxide (CO) as per methods and norms approved by CPCB
 - B. Ambient Noise Quality- L_{day} and L_{night} (in Leq dBA) 24 hrs basis as per methods and norms approved by CPCB
 - C. Surface Water Quality- pH, Turbidity, Total Hardness, DO, BOD, COD, Chloride, Hg, Iron, TDS, TSS, Calcium, Zn, Cr+6, Magnesium, Copper, Manganese, Sulphate, Cyanide, Nitrate, Sodium, Potassium, Fluoride, Cadmium, Arsenic, Lead, Boron, Selenium, Aluminium, Total residual Chlorine
 - D. Ground Water Quality- pH, TDS, Total Hardness, Zn, Chloride, Iron, Copper, DO, Manganese, Sulphate, Nitrate, Fluoride, Hg, Cadmium, Cr+6, Arsenic, Lead, Total Alkalinity, Phosphate, Phenolic compound
 - E. Soil quality- pH, Elect. Conductivity (at 250C), Moisture (at 1050C), Texture (silt, clay, sand), Calcium (as CaO), Magnesium (as Mg), Permeability, Nitrogen (as N), Sodium (as Na), Phosphate (as PO4), Potassium (as K), Organic Matter, oil and grease

2. During pre-construction stage monitoring is required to establish baseline at followingsites-





Environmental Monitoring in Pre-Construction Period

Sr. No.	Type of monitoring and Parameters	Location of monitoring and no. of samples	Total No. of samples (A)		
1	Ambient Air Monitoring	5 Locations (Geetanjali Enclave, Near Doon University , Mothrowala, Near PNB Bank ATM OHT, Near Shaheed Udham Singh Park OHT,	5		
		Near STP Plant Mothorawala)			
2.	Ambient Noise monitoring	5 Locations (Geetanjali Enclave, Near Doon University , Mothrowala, Near PNB Bank ATM OHT, Near Shaheed Udham Singh Park OHT, Near STP Plant Mothorawala)	5		
3	Ground Water quality	5 Locations (Geetanjali Enclave, Near Doon University , Mothrowala, Near PNB Bank ATM OHT, Near Shaheed Udham Singh Park OHT, Near STP Plant Mothorawala)	5		
4.	Soil Quality				
5.	Surface water quality	5 Locations (Geetanjali Enclave, Near Doon University , Mothrowala, Near PNB Bank ATM OHT, Near Shaheed Udham Singh Park OHT, Near STP Plant Mothorawala)	5		

Calculation of total Number of samples-

- Project construction period = 42 months = 14 quarters
- Monsoon period in each year =3 months =1 quarter (July-Sept)
- Monsoon period in project duration = 3 quarter
- Effective period of environmental monitoring during Construction period (C) = 14-3 = 11 quarters
- Total number of samples in construction period (D) = B x C
- Total number of Samples in Pre-constructions and Construction Phases (E) = (A + D)







1. Ambient Air Monitoring Reports





(ISO 9001:2015, 14001:2015 Certified Lab.) Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun-248171 (U.K.) India Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

Doc. No.: METCL/FF/48

TEST REPORT

Description of Sample: Ambient Air Monitoring Letter No.: BIPL/Dehradun/2021/WO-05 Dated: 07.01.2022

Report No.: METCL/DDN/130122/03 Date of Report: 17/01/2022 N.O.W: Development of Water Supply & Sewerage System involving
TW, OHT, Distribution Network, Trunk Sewer & Allied Works including
5 years operation & maintenance at Banjarawala, Pkg-2, Dehradun in Uttarakhand. Date of Testing: 13 - 17/01/2022

Environmental Conditions: N.A.
Sampling Period: Twenty Four Hours form 12/01/2022 (11:00 AM) to 13/01/2022 (11:00 AM)
Site: Near PNB Bank ATM OHT, Banjarawala, Mothrowala, Dehradun. Issued to:

Bhugan Infracon Pvt. Ltd., 201, 2nd Floor, Earth Retail, Nr- Bhadaj-Sciene City Circle, S.P. Ring Road, Ahmedabad.

TEST CERTIFICATE OF AIR MONITORING

S. No.	Parameters	Test-Value	Requirement as per National Ambient Air Quality Standards CPCB		
*			Industrial, Rural & other area	Sensitive Area	
1.	Particulate Matter (size < 10μm), μg/m ³ (24 hrs)	69.1	100 Max.	100 Max.	
2.	Particulate Matter (size < 2.5 μm), μg/m ³ (24 hrs)	47.7	60 Max.	60 Max.	
3.	Sulphur dioxide), µg/m³ (24 hrs.)	15.3	80 Max.	80 Max.	
4.	Oxides of Nitrogen, µg/m ¹ (24 hrs.)	11,3	80 Max.	80 Max.	
5.	Carbon Mono Oxide), µg/m³	N.D	02*, 04"	02°, 04"	

Protocol Used: IS: 5182 (P-2, 3 & 23), CPCB Guidelines.

Note: ND stands for Non-Detectable.

Note: * Maximum limits for 8 hourly monitoring, # Maximum limits for 1 hourly monitoring.

********End of Report****











2. Noise Monitoring Report



TESTING & CALIBRATION LABORATORY

Doc. No.: METCL/FF/48

(ISO 9001:2015, 14001:2015 Certified Lab.) Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun-248171 (U.K.) India Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

Report No.: METCL/DDN/120122/49

Date of Report: 13/01/2022 Date of Receipt: 12/01/2022

TEST REPORT

Description of Sample: Noise Monitoring
Letter No.: BIPL/Dehradun/2021/WO-05 Dated: 07.01.2022
N.O.W: Development of Water Supply & Sewerage System involving

TW, OHT, Distribution Network, Trunk Sewer & Allied Works including

5 years operation & maintenance at Banjarawala, Pkg-2, Dehradun in Uttarakhand.

Environmental Conditions: N.A.

Sampling Period: 11/01/2022

Site: Geetanjali Enclave Lane No.: 5, Banjarawala, Dehradun.

Issued to:

Bhugan Infracon Pvt. Ltd., 201, 2nd Floor, Earth Retail, Nr- Bhadaj-Sciene City Circle,

S.P. Ring Road, Ahmedabad.

TEST CERTIFICATE OF NOISE MONITORING

Parameter			Test-Value	Ambient Air dB(A) Leq, (2000	se Limits in ontrol) RULES		
			Industrial	Commercial	Residential	Silence	
Date &	Time: 11	/01/2022 & 1	0:20 AM				
Noise Level (Day)	Leq	Day	56.0	75	65	55	50
	Lmax.	Day.	57.2				-
dB (A)	L _{min}	Day	55.0				
Date &	Time: 11	/01/2022 & 0	3:42 PM				
Noise Level (Day)	Leq	Day	54.5	75	65	55	50
	Lmax.	Day	57.0			 	
dB (A)	L _{min} .	Day	52.1				
Date &	Time: 11	/01/2022 & 0	8:01 PM		1		
Noise	Leq	Night	48.0	70	55	45	40
Level (Day)	L _{max} .	Night	51.0			+	
dB (A)	L.min.	Night	45.0	-			-
Date &	Time: 11	01/2022 & 1	1:50 AM				L
Voise	Leq	Night	40.0	70	55	45	40
Level	Lmax.	Night	43.0				-
Day) iB (A)	Lmin	Night	37.0				<u> </u>

Protocol Used: IS: 9989-1981

*********<u>End of Report</u>*******

eviewed & Authorised





3 Soil Monitoring Report





Report No.: METCL/DDN/110122/32

Date of Report: 14/01/2022

Date of Testing: 11 - 14/01/2022

(ISO 9001:2015, 14001:2015 Certified Lab.) Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun-248171 (U.K.) India Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

Doc. No.: METCL/FF/48

TEST REPORT

Description of Sample: Soil

Letter No.: BIPL/Dehradun/2021/WO-05 Dated: 07.01.2022

N.O.W: Development of Water Supply & Sewerage System involving

TW, OHT, Distribution Network, Trunk Sewer & Allied Works including Date of Receipt: 11/01/2022

5 years operation & maintenance at Banjarawala, Pkg-2, Dehradun in Uttarakhand.

Environmental Conditions: N.A.

Sampling Period: 10/01/2022 (12:25 PM)

Site: Near Doon University Mothrowala, Dehradun.

Issued to:

Bhugan Infracon Pvt. Ltd.,

201, 2nd Floor, Earth Retail, Nr- Bhadaj-Sciene City Circle,

S.P. Ring Road, Ahmedabad.

S. No.	Parameters	Test Value	Test Method Ref. The Gazette of India extra ordinary Part-2, Sec: Sub Sec:2, Year:2009			
1.	Total Organic Carbon, per cent by Weight	0.30				
2.	pH	7.43	IS: 2720 (Part-26)-1986			
3.	Lead (as Pb), %	N.D	Colorimetric Method			
4.	Electrical Conductivity at 25°C (1:2 Ratio), µmohs/cm	0.433	IS: 2720			
5.	Soil Texture	Silt	IS: 2720			
6.	Moisture at 105°C,(wt/wt)	3.89	1S : 2720 - Part-2			
7.	Calcium, mg/kg	176.1	USEPA Method			
8.	Magnesium, mg/kg	94.8	USEPA Method			
9.	TKN as N, mg/kg	295	IS: 2720			
10.	Phosphate as Po4, (mg/kg)	2.42	APHA Method			
11.	Total Organic Matter, (wt/wt)	0.38	IS 2720 P-22 1972			
12.	Sodium as Na (mg/kg)	201	By Flame Photometer			
13.	Potassium as K (mg/kg)	30	By Flame Photometer			
14.	Oil & Grease	Nil	IS: 3025 Part-5 1983			

Note: N.D Stands For Not Detectable.

******<u>End of Report</u>******









4 Surface Water Monitoring Report





(ISO 9001:2015, 14001:2015 Certified Lab.)

Doc. No.: METCL/FF/48

Harbanswala, Shimla By Pass, Telpur Chowk, Dehradun-248171 (U.K.) India **Mobile:** +91 7535000490, 491 | **Email:** metclddn@gmail.com

Report No.: METCL/DDN/140122/32

Date of Report: 18/01/2022

Date of Testing: 14 - 18/01/2022

TEST REPORT

Description of Sample: Surface Water

Letter No.: BIPL/Dehradun/2021/WO-05 Dated: 07.01.2022

N.O.W: Development of Water Supply & Sewerage System involving

TW, OHT, Distribution Network, Trunk Sewer & Allied Works including Date of Receipt: 14/01/2022

5 years operation & maintenance at Banjarawala, Pkg-2, Dehradun in Uttarakhand.

Environmental Conditions: N.A.

Sampling Period: 14/01/2022 (11:11 AM)

Site: Nala Near Shaheed Udham Singh Park OHT, Mothrowala, Dehradun.

Issued to:

Bhugan Infracon Pvt. Ltd.,

201, 2nd Floor, Earth Retail, Nr. Bhadaj-Sciene City Circle,

S.P. Ring Road, Ahmedabad.

Requirement as per Environment Protection Rules, 1986

S. No.	Characteristics	Test Value	Discha	rge of Envir	onmental Po	llutants	Method of Test	
			Inland Surface Water, Max.	Public Sewers, Max.	Land for irrigation, Max.	Marine coastal areas, Max.		
1.	Turbidity, NTU	0.1					IS-3025(P-10)-1984	
2. 3.	pH Value	8.77	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	IS-3025(P-11)-2006	
3.	Total Hardness, (as CaCO ₃), mg/l Max.	414			-	-	IS-3025(P-21)-2009	
4.	Iron (as Fe), mg/l	0.018	3	3		3	IS-3025(P-53)-2012	
5.	Chloride (as Cl), mg/l	50.0					IS-3025(P-32)-1993	
6.	Total Dissolved Solids.mg/l	865.0			~=		IS-3025(P-16)-1984	
7.	Total Suspended Solid, mg/l	50.0	100	600	200	100	IS-3025 (P-17)	
8,	BOD, mg/l, mg/l	9.84	30	350	100	100	IS 3025 (P-44)-2003	
9.	COD	190.51	250	1	17.0	250	IS 3025 (P-58)-2006	
10.	Oil & Grease, mg/l	18.0	10	20	10	20	IS-3025(P-4)-1983	
11.	Dissolve Oxygen	Nil					IS 3025 (P-38)-1989	
12.	1.ead(pb), mg/l	Nil	0.1	1.0		2.0	IS 3025 (P-47)	
13.	Total Alkalinity.(Cacos).	-40					IS: 3025(P-23)-1986	
14.	Calcium (as Ca), mg/l	144.8			T		IS: 3025(P-40)-1991	
15.	Magnesium (as Mg), mg/l	13.0				N 48	IS: 3025(P-46)-1994	
16.	Total Residual Chlorine, mg/l	Nil	1.0			1.0	IS: 3025(P-26)-1986	
17.	Fluoride (as f), mg/l	0.27	2.0	15		15	IS: 3025(P-60)-2008	
18.	Nitrate (as No ₃) mg/l	7.55				1.2	IS: 3025(P-60)-2008	
19.	Dissolved Phosphate (as P) mg/l	8.4	5.0			/	15 3025(P-3P) 1988	
20.	Manganese as Mn. mg/l	- 0.01		2		2	(Nameger 8	

The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
 Total liability of our Lab is limited to the involved amount.

Samples will be destroyed after 30 Days from the date of issue of test report.

4. This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

AHMEDABAI



DRA-BIPL Joint Venture



5 Ground water Monitoring Report



TESTING & CALIBRATION LABORATOR

(ISO 9001:2015, 14001:2015 Certified Lab.) Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun-248171 (U.K.) India Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

Report No.: METCL/DDN/140122/27

Date of Report: 17/01/2022

Date of Testing: 14 - 17/01/2022

Doc. No.: METCL/FF/48

TEST REPORT

Description of Sample: Ground Water

Letter No.: BIPL/Dehradun/2021/WO-05 Dated: 07.01.2022

N.O.W: Development of Water Supply & Sewerage System involving

TW, OHT, Distribution Network, Trunk Sewer & Allied Works including Date of Receipt: 14/01/2022

5 years operation & maintenance at Banjarawala, Pkg-2, Dehradun in Uttarakhand.

Environmental Conditions: N.A.

Sampling Period: 13/01/2022 (11:58 AM) Site: Near STP Plant Mothrowala, Dehradun.

Issued to:

Bhugan Infracon Pvt. Ltd.,

201, 2nd Floor, Earth Retail, Nr- Bhadaj-Sciene City Circle,

S.P. Ring Road, Ahmedabad.

Requirement as per IS: 10500-2012, IS - 2296 & IS-456

S. No.	Characteristics	Test -Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	Turbidity, NTU	Nil	1 Max	5 Max	IS-3025(P-10)-1984
2	pH Value	7.2	6.5 - 8.5	No Relaxation	IS-3025(P-11)-2006
3	Total Hardness, (as CaCO ₃), mg/l Max.	161	200	600	IS-3025(P-21)-2009
4	Iron (as Fe), mg/l	Nil	0.3	No Relaxation	IS-3025(P-53)-2012
5	Chloride (as Cl), mg/l	76	250	1000	IS-3025(P-32)-1993
6	Total Dissolved Solids.mg/l	307	500	2000	IS-3025(P-16)-1984
7	Sulphate (as SO ₃) mg/l,	26.70	200	400	IS 3025 (Part 24)
8	Dissolve Oxygen, mg/l	Nil			IS 3025 (P-38)-1989
9	Total Alkalinity,(Caco3), mg/l	6.3	200Max	600Max	IS: 3025(P-23)-1986
10	Lead as Pb, mg/l	Nil	0.01	No Relaxation	1S 3025 (P-47)
11	Manganese (as Mn), mg/l	< 0.01	0.1	0.3	IS: 3025(P-59)
12	Residual Free Chlorine.	Nil	0.2	1.0	IS: 3025(P-26)-1986
13	Fluoride (as f), mg/l	0.62	1.0	1,5	IS: 3025(P-60)-2008
14	Nitrate (as No ₃) mg/l	1.21	45	No Relaxation	IS: 3025(P-34)1988
15	Dissolved Phosphate (as P) mg/l	5.93		==	IS: 3025 (P-31) 1988
16	Phenolic Compound (asC ₆ H ₅ OH), mg/l	<0.001	0.001	0.002	IS: 3025(P-43)
17	Hexavalent Chromium (VI) mg/l	BDL(DL-0.001)	0.05	No Relaxation	IS: 3025(P-52)-2003
18	Mercury (as Hg) (mg/l)	BDL(DL-0.01)	0.001	No Relaxation	IS: 3025(P-48)/Mercury analyser,
19	Copper(as Cu)	BDL(DL-0.02)	0.05	1.5	IS: 3025(P-42)-2003

1 | Page

Reviewed & Authorised



DRA-BIPL Joint Venture





TEST REPORT

	Characteristics	Test - Value	Limit	Permissible Limit in absence of Alternate	Method of Test
20	Zine (as Zn)	131.31(1310.07)		15	18: 3025(P-49) -1994
21	Arsenie (as AS) -	BDL(DL=0.01)	0.01	0.05	IS: 3025(P-37) -1988
23	Cadmium (os CD)	13131.(1310.001)	0.003	No Relevation	18: 3025(P-H) -1992

22 Cadimun (as. 27)

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Confirmity & Decision Rule (in case of Borderline): NA

3. Opinion & Interpretations: NA











Project welcomes complaints,

Sample Grievance Registration Form

suggestions, queries, and comments regarding project implementation. We

	, please inform us by writing/ty above your name. Thank				
Date	Place of registration	Project Town			
		Project:			
	Contact information/pers	onal details			_
Name		Gender			
Home address					
Place			(9)		
Phone no.					
E-mail					
Complaint/suggestion/	comment/question Please provide the grievance below	201 0	nt, where, and h	ow) of y	οι
	If included as attachment/note/lett	ter, please tick here	÷		

Toll Free No.









Grievance Redress Process

Grievances of affected persons will first be brought to the attention of the Community Awareness and Public Participation Agency (CAPPA), and PIU. Grievances not redressed will be brought to the Town Level Committees (TLC) set up to monitor project implementation in each town. The TLC, acting as a grievance redress committee (GRC) is chaired by the Mayors or Chairpersons with representatives of ward members, the District Magistrate, Commissioner, Uttarakhand Pey Jal Nigam (UPJN), Uttarakhand Jal Sansthan (UJS), Public Works Department (PWD), business, and civil society. As a GRC, the TLC will meet every month (if grievances are brought to the Committee), determine the merit of each grievance, and resolve grievances within a month of receiving the complaint. This will accept complaints regarding the social safeguard issues in implementation of the project. The grievances received and actions taken will be included into the environmental monitoring reports submitted to ADB. The following 4-stage process will be followed in grievance redress.

(i) 1st level grievance: Complaints received (written or oral communication) will be registered in Complaint Register assigning complaint number with date of receipt The PMDSC/PIU will review the complaint and direct the Contractor for necessary action; depending on the type/nature of complaint the Contractor will be given reasonable 149

time for corrective action; the CAPPA will inform the complainant, within 24 hours, the time frame in which the corrective action will be taken by e-mail or telephonically; if the grievance referred will not fall under the purview of the project/program, the same will be intimated to the complainant; Contractor will take corrective action or as directed by PMDSC; the CAPPA in coordination with PMDSC will conduct the site visit to check the action taken and its appropriateness. The action taken will be documented in the Complaint Register, and the complaint will be closed if it is satisfactorily addressed (within 7 days of receipt of compliance/grievance) and the complainant will be informed through e-mail/telephonically.

(ii) 2nd level grievance: In case of no satisfactory action in Level-1, the complainant can approach PMU/PMDSC for necessary action; CAPPA will assist the complainant in doing so. PMU with the assistance of PMDSC will initiate action and take the corrective measures as required, and CAPPA will intimate the complainant about the action taken; and Upon satisfaction of complainant, the case will be closed and marked as resolved within 15 days of receipt of compliance/grievance

(iii) 3rd level grievance: if complainant would be non-satisfied with the action made or due to noncompliance of grievance at Level 2, the complainant can approach the Grievance Redress Committee (maximum 7 days)









Insurance of Vehicle

DEHRADUH-SITE

TATA	Ce	rt. No.	-	CERTIFICATE CUM	POLICY	SCHE	EDULE	Prev. C	ert. No.	
ÂIG.										He
njin k		Bundl	ed Auto	Secure - Two Wheeler F	olicy (1 Yea	r Term fo	or Own Dame	ge & 5 Year	ns for Third F	arty)
AIG INSURANCE		Policy No 32749/00	0000/00	Tata AIG General In: 15th floor,Tower A,Pe Park Ganpatrao K Senapati Bapat Ma Tel:180026	eninsula Bus adam Marg, arg Lower Fi 367780	iness Off arel	IF To	RDA Regist	ration No.: 1	DIA PVT LTD. 549 376 Delhi-110020
Insured		ness/Prof	ession	Address of Ti S/O JAGAJI, 231,	@tatasig.co	m '	TP Valid	From I	TP Va	Hd Y-
Mr THAKOR SANJAY JAGA.		Employe		S/O JAGAJI, 231, GUJARAT, C/O SOU LANE NO 2 B, MAH MOTHROWALA UTTRAKHAN	RABH KAM IA LAXMI P V. Dehradun	BOJ,	29-12-2 12:03:	021	Midnight of	
Vehicle Regn N	0.	Engine N	D.	Chassis No.	Make &	Model	Year of	Mfg	Cubic Capacity	GSTIN No.
New	HA1	1ERMHL0	1132	MBLHAC043MHL01118	Hero Mo HF DEI HDLXAD	UXE	2021		100	(Customer)
Declared Value (IDV) of Vehicle	\$	ide Car II	ov .	Non-Electrical Accessories IDV	Electr Access	ical ories	CNG/LPG/E	3)-Fuel	Total	VOI
51300.00		NA		0.00	0.0	0	0.00		513	100
Place of Regn.		Body Typ	6	HP/Lease/Hire- Purchase Agreement With	Branch	Office e/Hire-	Seating Ca	pacity	Prem	
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Non-Electrical-Fitte Electronic & Elect Bi-Fuel Kit Geographical Ext ND Cover Less Handicapped Dist For Anti-Theft Dis NCB Total Own Dama	rical Access ension count count ge Premiun	o(A)		0.00 0.00 0.00 0.00 154.00 0.00 0.00 0.00 498.00	Total CNG/LPI Geograp Add Compuls Optional Legal Lia Legal Lia Total Lia Total Lia Total CGST @ SGST @	G/Bi-Fue hical Ext ory PA C PA Cove PA Cove bility Cor bility Cor bility Pre minim (// bher extr 9.00%	I Kit erision over (Owner r(Un Named r(Un Named over (Pald Driv ver (Per Licer mitum (B) A + B) a	Driver) ers, Cleane sed Passer	nger)	250.00 3035.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3035.00 3533.00 318.00 318.00 318.00 4169.00
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CPA (SCPA)		NII		NIL se of the vehicle for any	8,431			444		NIL NIL
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#: Received with Thanks Rs 4169.00 from Mr THAKÖR SANJAY JAGAJI as premium against the money receipt no 023194332749/000000/00

Rogd. & Head Office: Peninsula Business Park, Tower A,15th Floor, G.K. Marg, Lower Parel, Mumbai – 400013

For further information about motor insurance policy please also visit http://irda.gov.in >> Grievances >> Policyholder Handbooks





















Workmen's Insurance

Bajaj Allianz General Insurance Company Ltd. Bajaj Allianz House, Airport Road, Yerwada, Pune - 411006 POLICY SCHEDULE UIN: IRDAN113RP0004V01200102 Erection All Risks Insurance

Item Name		Item Description	AOA Limit	Sum Insured (Rs)
Section 1 (Material Damage) Completely Erected Value		Completely Erected Value		1,22,77,57,56
Escalation Cover		Escalation upto 50% of Sum Insured.		61,38,78,78
Clearance and Remov	ral of Debris	Removal of Debris upto INR 50,000,000 any one occurrence and upto INR 100,000,000 in aggregate.		10,00,00,00
Ow ners Surrounding	Property	Ow ners surrounding property with FLEXA upto INR 50,000,000 any one occurrence and upto INR 122,775,756 in aggregate.		12,27,75,75
Section 2 (Third Party	Liability)	Third Party Liability including Cross Liability upto INR 100,000,000 any one occurrence and	d	25,00,00,00
- 1		upto INR 250,000,000 in aggregate.		a 8 2nd floor Yash
Policy issuing officior communication service request, no Policy Number Product	by policyholder	upto INR 250,000,000 in aggregate. Indence address for claim, etc. 1-00000007	e Company Ltd.,Office n	
or communication service request, no Policy Number	by policyholder tice, summons, OG-22-2216-040 Erection All Risi From 13:25 Own Share: 100 DRA-BIPL JV	upto INR 250,000,000 in aggregate. Indence address for claim, etc. 1-00000007 Is Insurance 15/02/2022 To 30/05/2025 Midnight WAR CHOWK, UTTARAKHAND, HARIDWAR-2	e Company Ltd.,Office no oad,,PATAN-384265Ph:0	
or communication service request, no color Number Product Period Of Insurance Coinsurance Dtls nsured Name nsured Address	by policyholder tice, summons, OG-22-2216-040 Erection All Risi From 13:25 Own Share: 100 DRA-BIPL JV PLOT NO 73 LE	upto INR 250,000,000 in aggregate. Indence address for claim, etc. 1-00000007	e Company Ltd.,Office no oad,,PATAN-384265Ph:0	2766-223268

Base Premium	2,75,322	*** All Premium figures are in Rupee
Special Discount	0.00	
Net Premium	2,75,322	
Integrated GST=18%	49558.00	
	0.00	
Final Premium	3.24.880	

As per the GST regulations, the amount of GST will not be refunded if the policy / endorsement is cancelled after 30th September of the next financial year









Add Compulsory Deductible:

Scope of Cover Risk Covered

Special Perils

Special Exclusions Subject to Clauses : As per the policy wording attached

: Erection All Risks Policy for : Development of Water supply and sew erage system involving

: TW, OHT, Distribution network, trunk sew er and allied work.

Earthquake (Fire & Shock) up to Full SI, STFI Perils (Storm, Tempest, Flood, Inundation) up to

Full SI

Sabotage and Terrorism Damage.

Deductible for each and every claim:

Section I: Material Damage:

For Storage & Erection claims: 5% of the claim amount subject to a minimum of INR 75,000; For Testing/Maintenance period claims: 5% of the claim amount subject to a minimum of INR

2,00,000;

For AOG Perils claims: 10% of claim amount subject to a minimum of INR 2,00,000; Fire/Explosion claims: 20% of claim amount subject to a minimum of INR 2,00,000; Design Defect claims: 5 times AOG excess.

Section-II: Third Party Property Damage Claims - Policy excess (same as per section-I shall

The Policy Excesses as per section-I (Normal & AOG/Collapse/Major peril Claims) shall apply for Third Party Liability Property Damage Claims. For Third Party Liability Claims arising out of Acts of God Perils the Excess applicable to AOG claims shall apply. Cross liability cover (applicable to section-II)



50-50 Clause

72 hours clause.

Endorsement concerning storage

MR 110: Special Conditions Concerning Safety Measures with Respect to Precipitation, Flood and Inundation

MR 209: Exclusion of Loss of or Damage to Crops, Forests and Cultures

MR 208: Warranty Concerning Underground Cables and Pipes

Endorsement for civil engineering works.

Endorsement for temporary access roads /structures (as applicable)

MR 206 Special conditions Concerning Fire-Fighting Facilities

MR 217 Special Conditions for open trenches during laying of pipelines ,ducts and cables :

Upto a maximum length of 3000 metres open trench any one loss event

MR 219 Conditions for Horizontal Directional Drilling of Pipeline Routes below Rivers, Railway Embankments, Streets, etc. Horizontal Directional Drilling (if applicable): Value of HDD works to be provided prior to binding and included in the Sum Insured.

Cyber Risk Exclusion Clause

Sanctions and Limitations and Exclusion Clause

Terrorism Damage Exclusion endorsement

Communicable disease exclusion clause

Communicable Disease Exclusion Clause

Endorsement regarding Damage to Crops, Forests, etc., Special Conditions Concerning Fire









: Additional Covers & Limits (in aggregate):

Owners surrounding property with FLEXA upto INR 50,000,000 any one occurrence and upto INR 122,775,756 in aggregate.

Removal of Debris upto INR 50,000,000 any one occurrence and upto INR 100,000,000 in aggregate.

Escalation upto 50% of Sum Insured.

Extended Maintenance Period up to 24 Months.

Waiver of Subrogation (between Principal and Contractor only)

Waiver of contribution (between Principal and Contractor only)

Loss Minimization Expenses Clause as reasonably and necessary to be incurred up to INR 50,000,000 in aggregate

Professional Fees upto 10% of the loss amount per any one occurrence and upto INR 50,000,000 in aggregate

MR 013 Offsite Storage upto INR 100,000,000 any one occurrence and upto INR 1,000,000,000 in aggregate (within policy period). Within India.

Expediting cost incl. air freight & express freight up to 30 % of net claim amount in aggregate Automatic Reinstatement Coverage up to 10% of Project SI

MR 116 Put to use (Cover for insured contract works taken over or put into service) upto 3 Months

Design Defect Cover as per Munich Re DE3 wordings for civil works and DE-4 wordings for new electro-mechanical works all forming part of permanent works.

Bajaj Allianz General Insurance Company Ltd. Bajaj Allianz House, Airport Road, Yerwada, Pune - 411006 POLICY SCHEDULE

Regd. Office: Bajaj Allianz House, Airport Road, Yerwada, Pune - 411006 Email: Bagichelp@bajajallianz.co.in 304077405/-/10014395/-/-

A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India

[IRDA] vide Reg No.113.Corporate Identification Number U66010PN2000PLC015329 | Website www.bajajallianz.com For help and more information: Contact our 24 Hour Call Centre at 1800-209-5858, 1800-102-5858 (Toll Free)

UIN: IRDAN113RP0004V01200102 Erection All Risks Insurance

Warranties

Fighting Facilities, Loss Minimisation Expenses, Excess Clause for EAR, Terrorism Damage Exclusion Warranty, Escalation clause, Automatic Reinstatement, Endorsement concerning Storage, Clearance and Removal of Debris, Professional Fees Clause, 72 Hours Clause, Cover for Increased Customs Duty, Endorsement regarding Safety Measures, Cross Liability, Endorsements for Fire/Explosion claims and Fire Fighting, Air Freight, Premium Payment Clause, Extended Maintenance, Warranty Concerning Underground Cables & Pipes, Owners' Surrounding Property, Endorsement for Civil Engineering Works, Express Freight (excl Air Freight), Overtime, Holiday and Night Charges, etc., Waiver of Subrogation, Waiver of Contribution Clause, Property in Offsite Storage, Special Conditions concerning Safety Measures with respect to Precipitation, Flood & Inundation, 50:50 Clause, Cyber Risk Exclusion Clause - NIMA 2915, Sanctions Limitation and Exclusion Clause, Excess Clause for CPM

Additional Custom Duty up to 100,000,000 in aggregate.

cover during operational phase for Unit/Plant tested but aw aiting integral testing (along with other units/Plants) for upto 3 months (within policy period).







Special Conditions

: Scope of work involves construction/erection of New structures/equipment and Laying of new

· Pipeline works (including other allied works as per contract copy.

Existing or second-hand equipment; s stands excluded.

Demolition stands excluded from the scope of the policy.

Warranted that any construction involving works in water (wet risk), intake works or any such associated risks shall stand excluded from the policy.

Comments

NAME OF INSURED : DRA-BIPL JV & its associated sub-contractor for their respective rights & reserves

NAME OF PRINCIPAL: Office of The Program Director, Uttarakhand Urban Sector Development Agency.

PROJECT LOCATION: Banjaraw ala-Package-2, Dehradun in Uttarakhand (Total Length of Pipeline 105 Km)

Project Period: 01-Dec-2021 to 30-May-2025 (42 Month Including 1 Month Testing).

Policy Period: 15-Feb-2022 to 30-May-2025

Warranted that no loss will be payable for the gap period between 01-Dec-2021 to 14-Feb-2022

Instalment Schedule:

At the time of Inception: 2,75,322 + GST

Rest 16 Installments of 1,45,309 + GST as per Installment Schedule Attached.

Total Premium: 26,00,268 + GST









Agency Code

BAG10014395

Agency Name

BHOOMIKA SUJAL

Agency Contact 9825388410/9825

388410

Agency Email

sujaleasy2005@gmail.co

PATEL

Rs. 324880 By BG

*** If Premium paid through Cheque, the Policy is void ab-initio in case of dishonour of Cheque

*** This policy is subject to the standard policy wordings, warranties and conditions applicable for this product in addition to any specific warranty or condition attached

For & on the behalf of Bajaj Allianz General Insurance Company Ltd.

304077405/-/10014395/-/-

Regd. Office: Bajaj Allianz House, Airport Road, Yerwada, Pune - 411006 Email: Bagichelp@bajajallianz.co.in A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India [IRDA] vide Reg No.113.Corporate Identification Number U66010PN2000PLC015329 | Website w w w .bajajallianz.com For help and more information: Contact our 24 Hour Call Centre at 1800-209-5858, 1800-102-5858 (Toll Free)

Bajaj Allianz General Insurance Company Ltd. Bajaj Allianz House, Airport Road, Yerwada, Pune - 411006 POLICY SCHEDULE UIN : IRDAN1 Erection All Risks Insurance

UIN: IRDAN113RP0004V01200102

Aintheoliz Sigh Sighatoly Executed at Pune

Stamp Duty Rs 0.5

Consolidated Stamp Duty of Rs.0.5/- paid towards Insurance Stamps vide Challan No. MH002405964202122M Defaced No. 0001482221202122 dated 05-JUL-21 timing 12:58:03 of General Stamp Office, Mumbai, India,

Principal Location: 4th Floor, Turquoise, Nr. Panchvati Circle, C.G Road, Ellisbridge, Ahmedabad - 380006 PH:079-26432000 Services Accounting Code: 997139 - Other non-life insurance services (excluding reinsurance services). No reverse charge is payable on these services.

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Construction and Demolition Management Rules, 2016

The Dehradun Nagar Nigam is responsible for solid waste management including collection, transportation and safe disposal. Waste is collected through community bins, and the DDN also introduced door-to-door waste collection in part of the city. Street sweeping is carried out regularly. Collected waste is transported to the disposal site at Shishambada where waste is disposed in trenches and covered with soil.

Arrangements made to store dry and waste household waste in different bins which will be regularly disposed off by Dehradun Nagar Nigam (DDN).

Shishambada Waste Management











Sample Chance find Protocol

Introduction

Project town being a heritage town, there are possibility of any chance finds (artefacts) recovery during excavations. Contractors working at heritage towns must take additional care not to destroy or damage historic features during excavations. There may be many buried historic features in heritage towns such as

 idols, toys, wells, ancient drains, remains of buildings, other walls, grain pits, etc. Every care must be made not to destroy these during excavations.

Excavator drivers need to be instructed to be aware of hitting buried features and that they must be investigated before continuing work. When features are encountered during mechanical excavation, work should stop and the PIU/Consultants engineers must be informed immediately so that they can be inspected at the first opportunity.

When historic features such as walls, brick constructions and other features are encountered during excavation the excavation must be stopped immediately and the PIU/Consultants must be informed immediately.

Contractors' instruction: As soon as contractor recovers any chance find during any excavation works for pipe laying, they should immediately inform PIU/Consultant present in town about the chance find recovery. Immediately stop the excavation activity near point of recovery. After PIU/consultants engineers come at site, contractor should follow cleaning and photography in supervision of PIU/Consultant engineers.

Cleaning - When a feature/chance find is discovered it must be defined by careful cleaning. Roots must be removed and dirt must be carefully cleaned away. The section or trench base should also be cleaned back for a little distance around the feature.

Record photography – When the feature is clean good photography should be taken – vertical and face-on shots and a few general shots of the feature, also showing its position in relation to surrounding features, buildings, etc. The photographed should be catalogued (date, location, direction of shot)

Drawn record - When features/chance finds are revealed a drawn record should also be made.

- a. General location record measuring its position and orientation within the protected site / in relation to surrounding structures
- b. Record drawings detail drawings made in plan and section/profile. The extent (edges) of the feature should be drawn and the level of the existing ground surface and the top and base of the feature should be recorded. These levels should be marked on the drawings. The drawings should include detail of the construction of the feature. Perspective sketches could also be made if necessary. Explanatory notes can also be put on the drawings.

Reporting finds - When finds are made these should be reported to PIU/Consultants. Photographs and record drawings should be sent.







Discovery of historic objects - When clearance and excavation takes place artefacts and historic objects are sometimes found. These should be recovered and kept in a safe place. The place of discovery should be recorded and each find given a number and tag tied to the find with the same number on it. A list of the finds should be kept (with the find No. And place of discovery and date of discovery recorded).

PIU/Consultants responsibility- PIU/Consultants should inform in written to the State Archaeological Department at the earliest with photographs and request to Archaeology Department to visit the site and handover the chance finds to them









Occupational Health Safety

Guidance on preparing workplaces for COVID 19

Recommendations and descriptions of mandatory safety and health standards (based on the United States' Occupational Safety and Health Act of 1970). Advisory only identifies four categories of risk (low, medium, high, very high) depending on proximity to the people infected with the virus and recommends taking different level of precautions in the areas of engineering Control, administrative control, and personal protective equipment (PPE).









Heat Waves

Health Advisory of GOI for extreme heat or heat waves

Transcription: Secretary, Govt. of India vide its letter no. D.O. 90/NCDC/CEOH & CCH/2020-21 Health wave advisory on dated 30th April 2022 issued health advisory for extreme heat/



राजेश भूषण, अहररक शक्ति

RAJESH BHUSHAN, IAS SECRETARY



भारत सरकार स्वास्थ्य एवं परिवार कल्याण विचार स्वास्थ्य एवं परिवार कल्याण मंत्रालय Government of India Department of Health and Family Welfare

Ministry of Hewith and Family Welfare
2.861670200486001300 21/100000 4000000
35° April 2022

Dear Colleague,

The Seasonal and Monthly Outlook from Indian Meteorological Department (IMD) for March-May 2022 predicts above normal maximum temperatures over many areas of the Country and much higher temperatures in Central, Western and Northern parts of the Country. Temperatures have already touched 46° Celsius at some places and deviation up to 6° Celsius from expected normal temperatures have also been reported.

- draw your attention to "National Action Plan on Heat Related Illnesses" (released in July 2021), which is available on website of Union Ministry of Health Welfare (mohfw.gov.in) and the website of Se. Family Centre for Discase · Control INCOCI (https://node.gov/in/WriteRealData/ankorrages/SanonActionglasesHeatRebrofflienoes.gdf). In addition, I also draw your attention to an Advisory issued by this Ministry on 15* March 2022 for Health Facilities on heat related illnesses, symptoms, management, preparedness, record maintenance and surveillance etc. This was followed by another communication from NCDC to all States in April 2022 regarding need to esculate heat resilience measures in Health Facilities. An Inter-Sectional meeting on this subject was also chaired by Member Secretary, NDMA in mid-April 2022 where all Principal Secretaries of Revenue Departments of States participated,
- 3. I would request you to disseminate the guideline document "National Action Plan on Heir Related Illnesses," to all Districts for effective management of cases of heat wave. From 1° March 2022, daily surveillances on heat related illnesses has been initiated under integrated Disease Surveillance Programme (IDSP) in all States and Districts. Please ensure that these daily surveillance reports are shared with NCDC. The daily heat alerts which are being shared by IMD as well as NCDC with States indicate forecast of heat wave for next 3-4 days and may be disseminated promptly at District Health Facility level.
- 4. Health Deptt, of the State must continue efforts on sensitization and capacity building of medical officers, health staff, grass-root level workers on heat illness, its early recognition and management. Health Facility preparedness must be reviewed for availability of adequate quantities of essential mediciness, LV, fluids, ice packs, OES and all necessary equipment. Availability of sufficient drinking water at all Health Facilities and continued functioning of cooling appliances in critical areas must be ensured.

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-:2:-

- Health Facilities need to increase resilience to extreme heat by arranging uninterrupted electricity for constant functioning of cooling appliances, installation of solar panels (wherever feasible), measures to reduce indoor heat through cool/green roof (NDMA guidelines may be referred), window shades, shade outside, etc. Rain Water Harvesting and Recycling Plants may also be explored for selfsufficiency in water.
- States may also utilize Information, Education and Communication (IEC) as well as Community Level Awareness materials regarding the precautions to be taken by population to safeguard themselves against heat wave. A standard template of Public Health Advisory incorporating Do's and Don'ts, prepared by NCDC is being enclosed with this letter. This document could be used as a template and customized to suite local needs as well as translated in local languages for wider dissemination.

I am sure that with your effective leadership, the State would be able to monitor and manage the health impact of the current heat wave. Warm Xegards.

Yours sincerely,

(Rajesh Bhushan)

Encls.: A/a

To: Chief Secretary of all States/UTs.









Public Health Advisory: Extreme Heat/Heatwave

Do's

For general population

Stay hydrated:

- Drink sufficient water whenever possible, even if you are not throny. There is not a good indicator of doby draman.
- Carry drinking water when traveling.
- Die Oral Rehydration Solution (ORS), and consume homemade drinks like lemon water, butter milk/linesi, fruit juices with some added salt.
- Est seasonal fruits and vegetables with high worse content like water melon, mink melon, orange, gropes, pincapple, cocumber, letinor or other locally available fruits and vegetables.

Stay covered:

- West thin loose, cotton garments preferably light enterend
- Cover your head: use unibrelia, hat, cap, lowel and other traditional head gears during exposure to three!
- Wear shoes or chappels while going out in sun

Skay alone:

 Listen in Radio, watch TV; read Newspaper for local weather news. Get the latest update of weather or listes Meteorological Deportment (ISAD) website at https://mansem.imil.gov.in.

Stay indoors as much as possible:

- In well vestilated and cool places
- Block direct smlight and heat waves. Keep windows and curtures closed during the day, especially on the states side of your house. Open them up at might to let cooler on in
- If going outdoor, limit your enidour activity to cooler times of the day i.e., morning and evening
- Rescheikile or plan outdoor activities during cooler parts of the day

For vulnerable population

Although anyone at any time can suffer from the heat stress & hex-related illness, some people are at grazial risk than others and should be given additional amounts.

These include:

- Infants and young children
- · Pregnest women
- People working outdoors
- People who have a mental illness.
- People who are physically ill, especially with heart disease or high blood pressure
- People coming from cooler climate to a hot climate. If such persons are visiting during heavware, they
 should allow one week's time for their bodies to acclimate and should drink plenty of wister.
 Acclimating its activity of by gradual accrease in exposure physical activity in hot environment.

Other procautions

- Elderly or sick people living alone should be supervised and their health mensioned on a duly basis.
- Keep your horse cool, one curtains, shotters or sanshade and open windows as night.
- Try to remain on lower flows during the day.
- Use for, damp clotin to cool down body











Health Impact of Heat: Heat-Related Illnesses

- Normal human body temperature ranges between 36.4°C to 37.2°C (97.5°F to 98.9°F)
- Exposure to high outdoor and indoor temperatures can induce heat stress, directly and indirectly, leading to heat-related illnesses.
- Heat-related illnesses include (from mild to severe)—heat rash (prickly heat), heat oedema (swelling of hands, feet and ankles), heat cramps (muscle cramps), heat tetany, heat syncope (fainting), heat exhaustion, and heat stroke.
- Heat stress may also exacerbate chronic diseases like cardiovascular, respiratory, kidney diseases
 Witteh out for symptoms of heat stress, which include:
 - dizziness or fainting;
- · extreme thirst
- · nausea or vorsiting;
- THE PARTY OF TAXABLE
- decreased urmation with unusually dark yellow urine

headache

· rapid breathing and heartheat

Heat-related illnesses are preventable

If you or others feel unwell and experience any of above symptoms during extreme heat,

- Immediately move to a cool place and drink liquids. Water is best.
- Get help/medical attention.
- Measure your body temperature

If you experience painful muscular spasms (particularly in the legs, arms or abdomen, in many cases after sustained exercise during very hot weather),

- Rest immediately in a cool place, and drink oral rehydration solutions containing electrolytes
- · Medical attention is needed if heat cramps hast more than one hour

Heatstroke is a medical emergency!

Be aware of <u>Danger signs</u> & seek immediate medical attention if you observe In adults In children

- Aftered mental sensorium with disorientation, confusion and agitation, irritability, ataxia, segure or coma
- · Hot, red and dry skin
- Core body temperature ≥40°C or 104°F
- · Throbbing headache
- Anxiety, Dizziness, fainting and light headedness
- Muscle weakness or cramps
- Nausea and vomiting
- Rapid beartbeat Rapid, shallow breathing

- · Refusal to feed
- Excessive instability
- * Decreased urine output
- Dry oral mucosa & absence of tear/sunker eyes
- · Lethargy/altered sensorium
- Seizures
- . Bleeding from any site

Call 108/102 immediately

if you find someone with
high body temperature and is either
unconscious, confused, or
has stopped sweating

While waiting for help, cool the person right away

- * moving them to a cool place, if you can;
- applying cold water to large areas of the skin or clothing; and
- * fanning the person as much as possible











SEMP Disclosure

Minutes of Meeting: Awareness and Public Consultation

Venue - Banjarawala

Date: 03.01.2022

Package Name — Banjarawala Package — 2 (Mothrowala, Kedarpur)

A public consultation was held in the presence of PIU, DSC and Contractor's representatives on dated 03.01.2022, copy of participation sheet is attached below. In this public consultation the local public of the area was consultated about the benifits of the project, GRM Process, and social issues during the construction's work. Total 62persons; including 30 Male and 32 Female participated in the meeting.

The main point of the consultation are following:-

- 1. All the participants were aware about the construction work in their area.
- 2. Public was informed about the benefits of the project for the economic and social upliftment of the community.
- 3. In the consultation the local public was informed about the disturbances due to the project construction work.
- Public was informed about the health and hygiene during the construction work.
 - The public was consulted about the outcome of the project and solid waste disposal during the construction work.
 - 6. During the construction work the excavation will be performed for laying the pipelines, during this work all the social and environmental issues will be followed as per the norms.
 - 7. The Public was scared about the water supply and civic facilities during the construction work of the sub project, for this all the participants were informed about the alternate facilities during the construction work.
- 8. All the participants were also informed about the grievance redressal mechanism for any objection / problems due to the constructional activities in the concerned area
 - 9. The participants of the meeting were also informed about the prevention measures of COVID-19 in the sub project area as well as labour camp.











Uttarakhana orban Sector Development

Uttarakhand Integrated& Resilient Urban Development Project (UIRUDP)
Urban Development Department, Uttarakhand



Awareness and Public Consultation Attendance Sheet

Package- 2 Bayayayavelo
Place: Kalash Payaw Dohadur
Date & Time- 3-30 pm Total No. of Participants M 300

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Date & Time			

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