

DRA-BIPL Joint Venture



DBO	DRA-BIPL JV Pvt. Ltd.	SEMP
Company Name	DRA-BIPL JV Pvt. Ltd.	
Address	17, Lakshman sidhh colony harrawala Dehradun Uttrakhand 248001	
Document Title	SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN (SEMP)	
Client Name	Uttarakhand Urban Sector Development Agency (UUSDA)	
Package no.	WW-DDN-02	
Project Name	Development of Sewerage System involving STP, Trunk sewer and allied works including 5 years of Operation & Maintenance, at Raipur, Dehradun, in Uttrakhand (WW-DDN-02)	
Commencement date	17/12/2021	

Date:

	Department / Designation	Name	Signature
Prepared by	Safety/EHS Officer, DBOC	Mr. Munesh Singh	
Reviewed by	Project Manager, DBOC	Mr. Anwar Jamal	
Accepted by (PMC) Approved by Client (UUSDA)	Environment Specialist, DSC	Dr Sudhanshu Kaushik (S.C. Kaushik)	



Assistant Engineer
UUSDA Dehradun

PROJECT MANAGER
PIU-Roorkee, UUSDA
Govt. of Uttarakhand

Rajesh Bahuguna
(JEC Officer)
UUSDA Dehradun

Seema DSC

Vinay Mishra
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(Site Environmental Management Plan (SEMP))

Package UIRUDP: WW-DDN-02	UIRUDP	PIU- DEHRADUN
Contractor	DRA-BIPL JV Pvt. Ltd	
Date of Contract Award	17.11.2021	
Date of works commencement	09.12.2021	
Contract period	Construction: 30 months; O&M: 60 months	
Project Towns	Dehradun	
Project Description	Development of Sewerage System involving STP, Trunk sewer and allied works including 5 years of Operation & Maintenance, at Raipur, Dehradun, in Uttarakhand (WW-DDN-02)	
Project Components	As per the project detailed design	

Details of Contractors on-site-personnel and workers			
S.No.	Position	Name Of Person	Remark
1.	Project manager	Mr. Anwar Jamal	Mobilized
2.	Construction Manager/ senior Engineer	Mr. Rutul Patel	Mobilized
3.	Site/QA-QC Engineer	Mr. Gurvinder Singh/ Mr. Mohit Kumar/ Mr. Vikas Saini/ Mr. Md. Sayyed	Mobilized
4.	Hydraulic Engineer	Mr. Kamal Soni	Mobilized
5.	Safety/EHS officer	Mr. Munesh Singh	Mobilized
6.	EHS Supervisor	Ms. Anamika Rajak	
7.	Trenchless Technology Expert	Mr. Sazin Siddiqui	
8.	Social and Gender officer	Mr. Devendra	JE-PIU(Mobilized)



The aim of SEMP is to address any environmental impacts caused during different construction phases of this subproject.

Sewerage

Material	Length (All Materials) (m)
HDPE	97.421
DI - K7	12.066
Total Length	109.487



Table1: Preconstruction Phase Environmental Management

Anticipated Impact	Mitigation Measures	Responsibility
Unsatisfactory compliance to EMP	<ul style="list-style-type: none"> Environmental, Health and Safety (EHS) Supervisor has been mobilized to carryout environmental safeguard tasks Updated IEE / site specific EMP submitted by DBOC 	DBOC
Utilities on sites (electric, telephone lines, water pipes etc.)	<ul style="list-style-type: none"> Location of utilities and respective operators will be identified, and measures to avoid damage/disruption will be implemented Contingency plan will be prepared and implemented in case of service disruption 	DBO Contractor in collaboration with PIU and with approval of PMU
Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.	<ul style="list-style-type: none"> Construction materials will be obtained only from government approved quarries All clearance/license copies of quarries / borrow areas have been provided to PIU for prior approval A monthly report will be submitted to PIU on construction material quantity (sources-wise) No new borrow areas / quarries will be created for the work 	Contractor to finalize locations in consultation and approval of PIU
Sources of Materials	<ul style="list-style-type: none"> All the materials will purchase from the approved vendors and material will receive from the approved quarries only. List of approved quarry sites and sources of materials is attached with the SEMP (Annexure 1) 	DBO Contractor to prepare list of approved quarry sites and sources of materials with the approval of PIU
Updating of IEE and SEMP	<ul style="list-style-type: none"> IEE updation on the basis of detailed design has been submitted to the ADB for review prior to commencement of work. 	EHS Supervisor
EMP implementation training	<ul style="list-style-type: none"> The training related to EMP implementation have organized for all the key workers and project manager of DBOC 	EHS Supervisor
Consent, permits, clearances, NOCs	<ul style="list-style-type: none"> The status of clearances and approval has been given in the previous table. All the NOCs related to STP, Tube well, OHT and drains has been initiated and will be accessed before the work starts. 	EHS Supervisor
Guidelines to be followed establishing construction/labour camp	<ul style="list-style-type: none"> Camp sites are away from residential areas (100 m), sensitive areas (schools, hospitals, etc. 250 m.), water bodies (500 m) and forests (more than 1 km) Provided a proper fencing/compound wall Prepared a site layout plan & display at the site; uniformly label (name boards) all the places in the facility Entire site/facility area has been provided with hard levelled surface as appropriate; no loose soil, slush, water logging etc Living quarters and construction camps are provided with standard materials; no shacks or huts Adequate lighting and ventilation provided Provided drinking water, water for other uses, and sanitation facilities; drinking water should be regularly tested Provided clear pathways for safe movement Provided cooking fuel (cooking gas); and a separate safe place to cook; fire wood not allowed Constructed septic tanks and soak pit arrangement for wastewater disposal Solid waste has been properly managed – provided separate bins, compost biodegradable waste; sell recyclable waste Camp sites has been cleared and restored to original after 	Construction Contractor

Worker amenities at all work sites	completion of work, all debris, wreckage cleared	Construction Contractor
	• A temporary rest area for workers (for resting in break time, protection against rain/sun, eating etc.) has been provided	
	• Drinking water	
	• Wash area, toilets (separate for women); mobile toilets for linear work has been provided	
	• Septic tank and soak pits for waste disposal has been provided	
	• First aid has been provided	

Table 2. Construction Phase SEMP

Anticipated Impact	Mitigation Measures	Responsibility
EMP Implementation	<ul style="list-style-type: none"> • EHS Supervisor has been deployed on site • A training has been given to all the key person and project Managers • Training has been given on Spoil management, Standard Operation Procedures (SOP) for construction works , Health & Safety (H&S), Core Labor laws etc. 	Construction Contractor
Dust Control	<ul style="list-style-type: none"> • Excess excavated material will be removed from site at earliest to our dumping site • Water will be sprinkled over excavated roads periodically to avoid dust 	DBO Contractor
Noise control	<ul style="list-style-type: none"> • Noisy works has been avoided in the night • Proper noise control apparatus (silencers, mufflers etc.) will be ensured for construction equipment. • Maximum sound level of 75dBA at a distance of 10m from source will be ensured • Before under taking work with heavy noise/vibration, surrounding area /buildings will be Surveyed to identify any old/sensitive buildings at risk, and necessary precautions will be taken to avoid any risk • Drivers will be trained to avoid usage of horns unnecessarily • Noisy works will not be conducted near sensitive places (hospitals, schools etc.) and at sensitive times (festivals etc.); works will be scheduled accordingly 	DBO Contractor
Vehicle emissions	<ul style="list-style-type: none"> • All the construction equipment, machinery will be fitted with pollution control devises • Pollution under control (PUC) certificate will be obtained for all vehicles, equipment, and records maintained . 	DBO Contractor
Water pollution /works in rainy season	<ul style="list-style-type: none"> • No deep earth work will be conducted during rainy season • Stock piles of earth will be covered by tarpaulins or plastic sheets • Excess soils, debris and materials will be reused in the construction works • Disposal sites will be selected prior to start of construction following the EMP guidelines • Temporary silt traps or sedimentation basins will be provided to control water pollution • Storage areas for fuels and lubricants will be located away drainage lines & water bodies • Fuels, construction chemicals etc. will be stored on an impervious floor, and carefully handled to avoid spillage; spill collection arrangement will be provided • Wastes generated by construction activities will be disposed only in designated sites • Surface water quality monitoring will be conducted as per the EMP • Temporary drains or bunds will be created around the periphery of work area to avoid flooding, and entry of runoff 	Construction Contractor

Occupational Health and Safety	<ul style="list-style-type: none"> • Health and Safety orientation training will be provided to all workers • Regular health Check-up will conducted for Workers • There will be periodical awareness camps and special trainings for Workers for health issues and risks in construction sites • Emergency procedures and contact information will be provided on all sites • First aid and staff with training in first aid will be made available at all sites. • Accidents will be promptly registered and reported ;register will be maintained at every site 	Construction Contractor
Traffic management /access during pipe line works	<ul style="list-style-type: none"> • Pipeline work implementation plan will be prepared for each road; works will not be conducted in all roads at once in a locality; alternative roads for traffic movement will be ensured • Traffic management plan will be prepared in consultation with traffic police for each road, and displayed on site; Two – Three days prior notice will be provided • Temporary diversions will be provided as required, with prior public information • Work area will be properly defined, barricaded; minimum strip of land will be used • Material/waste/soil will not be stocked obstructing the traffic, pedestrian etc. • Trench width will be minimized as much as possible adopting best construction methods with proper shoring/bracing • Work site will be kept free from all unnecessary obstructions • Public information boards, sing boards, caution boards will be provided along with contact numbers • Prior to start of pipeline work, information will be provided to the public through paper pamphlets and door to door consultation. 	Construction Contractor
Sewerage system operation: treatment discharge of treated wastewater, sludge	<ul style="list-style-type: none"> • Ensure that treated wastewater meets the established discharge standards all times; Conduct regular wastewater quality monitoring (at inlet and at outlet of STP) to ensure that the treated effluent quality complies with design standards; • Conduct baseline water quality assessment of receiving water body prior to start of operation • Ensure implementation of Reuse Plan, and ensure intended quality for each direct reuse • Assess composition and characteristics of sludge from the first batch operation at the initial phases, and confirm the handling, management and disposal/reuse actions suggested in the management plan • operated only by trained staff and as per the standard operating procedures; in case of any accident and/or maintenance activity, ensure that the staff follows documented procedures only • Ensure proper knowledge transfer, hands-on training to municipal staff engaged in STP operation has been provided by contractor prior to handover of facility; • Operate and maintain the facility following standard operating procedures of operational manual; • Undertake preventive and periodic maintenance activities as required; 	O and M contractor for 5 years and then Nagar Nigam

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Construction waste / debris disposal	<ul style="list-style-type: none">Temporary storage of construction waste and debris has been done at site godowns in Raipur which will then be shifted to Shisambada	Construction Contractor
Post construction clean up	<ul style="list-style-type: none">All spoils wreckage, rubbish, or temporary structures (such as latrines) will be removedAll excavated roads will be reinstated to original conditionAll disrupted utilities will be restoredAny spillage of substances like oils, paints etc. will be cleaned upAll hardened surfaces in work /camp areas will be ripped, all materials removed, and top soiledRestoration to original will be documented and reported to PIU.	Construction Contractor



Site Specific Environmental Management Plan (SEMP) ANNEXURES

- ANNEXURE 1: PRE-CONSTRUCTION PHASE APPROVALS/ NOCs
- ANNEXURE 2: TRAFFIC MANAGEMENT PLAN
- ANNEXURE 3: SAFEGUARD ACTIVITIES INCLUDING COVID-19
- ANNEXURE 4: BASELINE ENVIRONMENTAL MONITORING
- ANNEXURE 5: GRIEVANCE REDRESS MECHANISM (GRM)
- ANNEXURE 6: HEAT WAVES
- ANNEXURE 7: SEMP DISCLOSURE
- ANNEXURE 8: CONTRACTOR'S EHS POLICY



ANNEXURE 1: PRE-CONSTRUCTION PHASE APPROVALS /NOCs

During this phase of the project the following permissions has to be acquired from the department

S. No.	Construction Activity	Status under which clearance is Required	Implementation	Supervision
1.	Tree Cutting (No trees required to be cut) as per detailed survey	State forest department/ Revenue	PIU	PIU and PMU
2.	Hot mix plants, Crushers and Batching plants	Material to be procured from Existing Hot mix plant/Batching plant in Dehradun having proper CTE/CTO	DBO Contractor	PIU
3.	Storage, handling and transport of hazardous materials (Not required as no hazardous material used)	Hazardous Waste (Management and handling) rules, 2016; Manufacturing, Storage and Import of Hazardous Chemicals Rules, 1989 from UEPPCB	DBO Contractor	PIU
4.	Material Sourcing approval for sourcing stones and sand from quarries and sand mining and borrow areas	Material to be procured from authorized quarries/ stockiest having access to authorized quarries.	DBO Contractor	PIU
6.	Temporary traffic diversion measures	District Traffic Police	DBO Contractor	PIU
7.	Road cutting for Sewer laying works	Concerned department (PWD, Nagar Nigam, etc.)	DBO Contractor	PIU
8.	Construction Waste and Demolition Debris Management	Approval from Nagar Nigam for disposal site is required per Construction and Demolition Waste Management Rules 2016	DBO Contractor	PIU
9.	Labour License	Labour commissioner, Government Of Uttarakhand	DBO Contractor	PIU
10.	Use of Vehicles and Equipment Pollution under Control (PUC) certificate	Motor Vehicle Rules, 1989	DBO Contractor	PIU

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Attachments

- 1 : Labour License
- 2) :Approved quarries Letter for sand & aggregate
- 3): Letter for Permission of Road Cutting for Sewer line laying and Storm water drain work
- 4): Pollution Under Control Certificates of vehicles and equipment



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Labour License

LABOUR COMMISSIONER ORGANIZATION, UTTARAKHAND
Application Form for License Under - Contractor Labour Act Licence
Application

License Application No : CLALDDN000437

Name of Contractor : M/s DRAIPL-BIPL (JIONT VENTURE)

Address of Contractor :

Plot No-17, Laxman Sidh Colony, Harawala
Dehradun

Date of Birth : 05/12/1985

Age : 0

Name of Contractor's Firm : M/s DRAIPL-BIPL (JIONT VENTURE)

Address of Contractor's Firm :

Plot No-17, Laxman Sidh Colony, Harawala
Dehradun

Type Of Business :

Development of sewerage system involving
STP, Trun

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

UTTRAKHAND URBAN SECTOR
DEVELOPMENT AGENCY (UUSDA)

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

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

Name of the Agent or Manager of Contractor : Rutul Rameshbhai Patel

Address of the Agent or Manager of Contractor : NEAR D P, PALANPUR GUJARAT

Registration Certificate Number Under the Act : 701/D-CL/13

Date of Registration Under the Act : 14/10/2013

Maximum Number Of Contract Labour On Any Day : 50

Nature of Work :

Development of sewerage system involving
STP, Trunk Sewer Allied Works including 5
years Operation and Maintenance at Raipur,
Dehradun, in Uttarakhand

Proposed Duration of Contract(From Date) : 20/05/2022

Proposed Duration of Contract(To Date) : 19/05/2023

Whether the Contractor Was Convicted Of Any Offence Within the : No

5/28/22, 1:49 PM Contractor Labour Act Licence

https://uklabouracts.in/Report/AppPrintCopy/CLA_LicencePrint.aspx?ActKey=jdLumi2w7Hxz4%2bVktNGHzA%3d%3d&&AppKey=DLQEBtkoMEptDY... 2/2

Preceding Five Years

Whether There Was Any Order Against The Contractor Revoking or
Suspending License

or for Feiting Security deposit in respect of an
Earlier Contract



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: No

Whether the Contractor has Worked in Any Other Establishment
Within The Past Five years.

If So Give Details Of The Principal
Employer, Establishment And Nature Of Work

: yes

Whether a Certificate by The Principal Employer In Form V : Yes

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief
Attachment

PhotoGraphFile IDProofFile PANCardFile

FUOther

ChallanFile

Form5File PECertificate ListEmpFile SalarySlip



Approved quarries Letter for sand & aggregate

भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड,
मोहालपानी, देहरादून।
संख्या : / स्टी0कै0नवी0/खनन/भू0खनि0ई0/हरि0/2021-22, दिनांक 01 अक्टूबर 2021

उत्तराखण्ड शासन, औद्योगिक विकास (खनन) अनुभाग-1 के कार्यालय ज्ञाप संख्या 1480/VII-A-1/2021-68 दि/08 टीसी-1, दिनांक 08 सितम्बर 2021 के द्वारा उत्तराखण्ड स्टीन क्रेशर, स्कीनिंग प्लांट, मोहाईल स्टीन क्रेशर, मोहाईल स्कीनिंग प्लांट, पल्परवाइजर प्लांट, हाट विस्त प्लांट, अर्किमिंग प्लांट अनुज्ञा नीति 2020 के अन्तर्गत-111 के दिन्दु संख्या 1 के उप विन्दु 2 में संशोधन किया गया है कि:- स्टीन क्रेशर/स्कीनिंग प्लांट का नवीनीकरण जिलाधिकारी अथवा उनके द्वारा नामित अपर जिलाधिकारी/मुख्य विकास अधिकारी की अध्यक्षता में गठित समिति की संयुक्त निरीक्षण आख्या के आधार पर जिलाधिकारी एवं निदेशक, भूतत्व एवं खनिकर्म इकाई की संसुति पर शासन द्वारा 10 वर्ष की अवधि हेतु की जायेगी। परन्तु वर्तमान में कोविड-19 (Covid-19) के महामारी के प्रभाव एवं संक्रमण की सम्भावनाओं एवं Ease of Doing Business के दृष्टिकोण से स्वीकृत तथा सकारित स्टीन क्रेशर/स्कीनिंग प्लांट एवं प्लांट परिसर में उपखनिज भण्डारण की अनुज्ञा का नवीनीकरण गि0 न्यायालय, मा0 राष्ट्रीय हस्तित प्राधिकरण के आदेश द्वारा सन् या सीज की गयी इकाई को छोड़कर आवेदक इकाई द्वारा नवीनीकरण गुना पत्र किये जाने एवं आवेदन पत्र के शुद्ध नीति में निर्धारित मानकों/प्रावधानों को पूर्ण किये जाने से सम्बन्धित प्रत्येक पत्र के द्वारा स्वप्रमाणपत्र (Self Certification) प्रस्तुत किये जाने पर निदेशक, भूतत्व एवं खनिकर्म इकाई द्वारा सम्बन्धित अमिलेखों का परीक्षण/जाँच करने के उपरान्त आगामी 10 वर्ष की अवधि हेतु नवीनीकरण किया जायेगा, प्रत्येक पत्र के द्वारा परन्तु उक्त नीति प्रत्यक्षित होने की तिथि से 01 मई तक ही प्रवृत्त एवं प्रभावी होगा। शासन के पत्र संख्या 1551/VII-A-1/2021-68 दि/08 टीसी-1, दिनांक 08 सितम्बर 2021 के द्वारा स्टीन क्रेशर नीति, 2020 में उपखानुसार किये गये प्रावधान के सफल एवं सुचारु क्रियान्वयन हेतु श्री राजपाल तेंचा, उप निदेशक/अध्यक्ष खान अधिकारी, भूतत्व एवं खनिकर्म इकाई, जनपद नैनीताल को एतद्वारा लेखत 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/भू0खनि0ई0/2021-22, दिनांक 21 सितम्बर 2021 के द्वारा पूर्व से स्वीकृत/संचालित स्टीन क्रेशर/स्कीनिंग प्लांट तथा प्लांट परिसर में उपखनिज भण्डारण की अनुज्ञा का नवीनीकरण आदेश नीतिगत समस्त नियमों का पालन कराते हुए नवीनीकरण आदेश निर्गत किये जाने हेतु अग्रोहस्ताक्षरी को एतद्वारा अधिकृत किया गया है।

नोटल अधिकारी, भूतत्व एवं खनिकर्म इकाई, देहरादून द्वारा पत्र संख्या 113/भू0खनि0ई0/स्टी0कै0नवी0/हरि0/2021-22, दिनांक 01 अक्टूबर 2021 के द्वारा मैसर्स इण्डिया स्टीन क्रेशर प्रो0 श्री खालिद अली, ग्राम तेलपुरा, पो0 बुग्गावाला, जनपद हरिद्वार को ग्राम दौलतपुर हजरतपुर उर्फ बुग्गावासीद, तहसील रुडकी, जनपद व तहसील हरिद्वार के क्षेत्रान्तर्गत कुल 2.0398 हे0 भूमि में पूर्व से स्वीकृत/संचालित स्टीन क्रेशर प्लांट की अनुज्ञा का नवीनीकरण मय भण्डारण अनुज्ञा सहित दिनांक 24 अक्टूबर 2018 से आगामी 10 वर्ष की अवधि हेतु स्वीकृत किये जाने के सम्बन्ध में 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 स्टीन क्रेशर, स्कीनिंग प्लांट, पल्परवाइजर अनुज्ञा नीति 2011 के अन्तर्गत निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड, देहरादून के प्रस्ताव दिनांक 17 जुलाई 2013 में प्रदत्त संसुति के क्रम में आवेदक मैसर्स इण्डिया स्टीन क्रेशर प्रो0 श्री खालिद अली, ग्राम तेलपुरा, पो0 बुग्गावाला, जनपद हरिद्वार को ग्राम दौलतपुर हजरतपुर उर्फ बुग्गावासीद, तहसील रुडकी, जनपद व तहसील हरिद्वार के क्षेत्रान्तर्गत कुल 2.0562 हे0 अर्थात् 5.08 एकड़ भूमि में 200 टन प्रतिदिन क्षमता के स्टीन क्रेशर स्थापना/संचालन हेतु आदेश में वर्णित शर्तों के अधीन 05 वर्ष की अवधि के लिए स्वीकृत किये जाने की अनुमति प्रदान की गयी है। तदुपरान्त कार्यालय जिलाधिकारी हरिद्वार को पत्र संख्या 731/खनन शा00/उ0खनि0भ0-2016, दिनांक 21 जुलाई 2016 के द्वारा प्लांट स्वामी के पक्ष में ग्राम दौलतपुर हजरतपुर उर्फ बुग्गावासीद के चक सं0 748 के गाटा सं0 948/2, चक सं0 547 के गाटा सं0 948/22, 948/23, चक सं0 945/3, 945/4, 947, 948/26, 948/27, 948/28, कुल भूमि 2.0330 हे0 में एक समय में 70,000 घनमीटर उपखनिज भण्डारण की अनुमति दिनांक 23 अक्टूबर 2018 तक की अवधि हेतु आदेश में वर्णित शर्तों के अधीन अनुमति प्रदान की गयी है।



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1. उत्तराखण्ड स्टोन क्रेशर रेगुलेशन प्लान, पल्लवाइंडर, मोबाइल स्टोन क्रेशर, मोबाइल स्क्रीनिंग प्लान, मोबाइल मिक्स प्लांट, रेडी मिक्स प्लांट अनुज्ञा नीति-2020 के अध्याय-1 के विन्दु संख्या 7 "मोबिल क्रेशर / स्क्रीनिंग प्लांट अनुज्ञा देने हेतु शर्तों में उल्लिखित समस्त शर्तों (विन्दु संख्या 1 से 14 तक) का अनुपालन किया जाकर अनिवार्य होगा अन्यथा ई-रचना पोर्टल बन्द किये जाने की कार्यवाही की जायेगी।
2. स्टोन क्रेशर नीति के अध्याय-1 के विन्दु संख्या 7 (15) की अनुपालना माओ न्यायालय द्वारा गिट याचिका सं० 1645 / एम0एस0 / 2020 बलविन्दर सिंह बनाम उत्तराखण्ड राज्य व अन्य में पारित आदेश के अनुसार की जानी होगी।
3. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्दु संख्या 7 (16) के अनुसार प्लांट संचालन से पूर्व पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण बोर्ड से Consent to Operate लिया जाना अपरिहार्य होगा।
4. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्दु संख्या 9 की अनुपालना माओ न्यायालय द्वारा गिट याचिका सं० 1645 / एम0एस0 / 2020 बलविन्दर सिंह बनाम उत्तराखण्ड राज्य व अन्य में पारित आदेश के अनुसार की जानी होगी।
5. नीति के अध्याय-III के विन्दु संख्या 1 (1) के अनुसार अवशेष शुल्क रु० 19,80,000/- (सव्ये उन्नीस लाख अस्सी हजार मात्र) नवीनीकरण आदेश के उपरान्त तथा ई-रचना पोर्टल में अपलोड / अपडेट किये जाने से पूर्व निर्धारित लेखा शीर्षक में जमा किया जाना होगा।
6. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्दु संख्या 6 (क) के अनुसार स्टोन क्रेशर संचालक को क्रैन्ड मैटेरियल (गिट एवं डस्ट) की मात्रा पर रु० 1.00 प्रति कुन्तल की समतुल्य धनराशि तथा क्रेशर प्लांट में छाने गये उपखनिज (बालू, बजरी) की मात्रा पर रु० 0.25 प्रति कुन्तल की समतुल्य धनराशि पर्यावरण एवं खनिज सम्पदा शुल्क के रूप में निर्धारित लेखाशीर्षक-0853 अलौह धातु कर्म एवं खनन उद्योग में जमा किया जाना अनिवार्य होगा।
7. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्दु संख्या 6 (ख) के अनुसार स्टोन क्रेशर के स्वामी के द्वारा प्लांट के प्रवेश में व निकाली गेटों पर कम्प्यूटाइज्ड धर्माकाटा एवं सी0सी0डी0डी0 क्रेशर स्वयं के खज पर स्थापित करेगा तथा रिकार्डिंग की सी0डी0 प्रत्येक माह जिलाधिकारी एवं भूतल एवं खनिकर्म निदेशालय के जनपदीय कार्यालय में प्रस्तुत करेगा। तदनुसार निदेशक को सूचित किया जायेगा।
8. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्दु संख्या 6 (ग) के अनुसार भण्डारण की जाय / वैमाइश के उपरान्त यदि भण्डारित उपखनिज की मात्रा भण्डारणकर्ता द्वारा प्रस्तुत अभिलेखी एवं वार्षिक वैमाइश के अनुसार मिलान करने पर 5 प्रतिशत से अधिक का अन्तर पाया जाता है, तो नियमावली के नियम 13(6)(ख) के अनुसार कार्यवाही की जायेगी।
9. स्टोन क्रेशर नीति-2020 के अध्याय-1 के विन्दु संख्या 6 (घ) के अनुसार स्टोन क्रेशर स्वामी द्वारा पर्यावरण एवं खनिज सम्पदा शुल्क जमा न करने की दशा में खनिजों के परिचायन हेतु संबंधित जिला खान अधिकारी द्वारा ई-प्रपत्र "जे" जारी नहीं किया जायेगा।

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10. स्टीन क्रेशर नीति-2020 के अन्वयाय-I के विन्दु संख्या 6 (3) के अनुसार स्टीन क्रेशर प्लांट द्वारा बन सके न किये गये उपशयिज को प्लांट में Process किये जाने के उपरान्त crushed material/ Screened material का संरक्षण परिवर्तन होने के क्लस्टरसुध Processed material बन उपरत की शर्ती न रही अपरना।
11. प्लांट स्वामी के आवेदन प्रकर में परिचितित प्लांट की क्षमता 75 टन/घण्टा तथा प्लांट संचालन की क्षमता अंशतः 10 घण्टा प्रतिदिन की आधार पर वर्षाकाल (नूतन-मिचमन) की क्षमता 75 (दैन) टन तथा गाल/अप्रैल 01एमड की कुल मात्रा अर्थात् स्टीन क्रेशर से कुल गाल की एक समय में प्रसंसारण क्षमता 90*75*10=67,500 टन तथा वर्षाकाल से मिचम अर्थात् अर्थात् (अप्रैल) में कुल गाल की क्षमता 75*75*10=67,500 टन तथा गाल की एक समय में प्रसंसारण क्षमता 45*75*10=33,750 टन होती है तथा वर्ष में 2,70,000 टन कुल गाल की आवश्यकता होगी।
12. उत्तराखण्ड स्टीन क्रेशर, सीमित प्लांट, पल्लवईजर, मोवाईल स्टीन क्रेशर, मोवाईल सीमित प्लांट और मिश्रित, रेडी मिश्रित प्लांट अनुज्ञा नीति-2020 के अनुसार प्लांट की वार्षिक क्षमता का अनुमान नीति के अन्वयाय-I के विन्दु संख्या 9 में गठित तालिमी से कराये जाने के उपरान्त ही प्लांट की वार्षिक क्षमता निर्धारित की जा सकेगी।
13. स्टीन क्रेशर नीति-2020 के अन्वयाय-III के विन्दु संख्या 3 (1) के अनुसार प्लांट स्वामी के द्वारा शासन की नीति के विपरीत कार्य करने पर क्लिाधिकारी एवं निदेशक, भूतल एवं खनिर्क डकाई की संशुक्ति पर शासन द्वारा प्लांट स्वामी को सुनवाई का युक्ति-युक्त अवसर प्रदान करने के उपरान्त गुण-योज के आधार पर अनुज्ञा रद्द करने का निर्णय लिया जायेगा।
14. यदि प्लांट स्वामी के द्वारा उपलब्ध कराये गये अभिलेख गलत पाये जाते हैं तो इसकी सम्पूर्ण निम्नकारी प्लांट स्वामी की होगी तथा गलत अभिलेख पाये जाने की पुष्टि होने की दशा में प्लांट के नवीनीकरण की अनुज्ञा निरस्त किये जाने की कार्यवाही सम्पादित की जायेगी।
15. प्लांट स्वामी के द्वारा उत्तराखण्ड शासन, औद्योगिक विकास अनुभाग-1 की अधिसूचना संख्या 906/VII-I/2020/158 ख-04 टीसी, दिनांक 15 जुलाई 2020 के द्वारा प्रख्यापित उत्तराखण्ड खनिर्क (अपेक्ष खनन, परिवहन एवं भण्डारण का विचारण) नियमावली, 2020 में उल्लिखित समस्त शर्तों/प्रतिबन्धों का अनुपालन किया जाना सुनिश्चित किया जायेगा।
16. प्लांट स्वामी के द्वारा मा० उच्च न्यायालय, मा० उच्चतम न्यायालय, मा० राष्ट्रीय हरित प्राधिकरण तथा केंद्र सरकार व राज्य सरकार द्वारा समय-समय पर निर्गत आदेशों का अनुपालन सुनिश्चित किया जाएगा।

(एलएलएल पैरिड)
अपर निदेशक।

संख्या: 2354/स्टोक्रोप्लांनवी०/खनन/मूखनि०ई०/हरि०/2021-22, तद्दिनांकित।
प्रतिलिपि:- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


प्रतीलापः— निम्नालिखित का रूप तन
रहित, गन्धन, उत्तराखण्ड शासन, देहरादून।

1. सचिव, खनन, उत्तराखण्ड सांसद, देहरादून।
2. निदेशक, भूतत्व एवं खनिकर्म इकाई, उद्योग निदेशालय, उत्तराखण्ड, देहरादून।
3. जिलाधिकारी, हरिद्वार।
4. सदस्य सचिव, उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण बोर्ड देहरादून को इस आशय के साथ प्रेषित कि कृपया प्रदूषण नियंत्रण बोर्ड से सम्बन्धित मामलों को पूर्ण करने हेतु, जो भी शर्त निर्धारित है उसका अनुपालन Consent to Operate देने से पूर्व कराने का कष्ट करें।
5. संयुक्त निदेशक खनन/नोडल अधिकारी, भूतत्व एवं खनिकर्म इकाई, देहरादून।
6. सहायक भूवैज्ञानिक, भूतत्व एवं खनिकर्म इकाई, हरिद्वार।
7. मैसर्स इण्डिया स्टोन क्रेशर प्रा० श्री खालिद अली, ग्राम तेलपुरा, पो० मुग्गावाला, जमशेदपुर, जमशेदपुर।

०५/०७/२०२०
(एसओएलओ पैडिक)
अपर निदेशक।



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



To, Registrar General,
High Court of Uttarakhand,
Nainital

From, The Deputy Director,
Uttarakhand Urban Sector Development Agency (UUSDA),
Service Tower, 2nd Floor, Rajendra Nagar,
Kendrapalli Road,
Dehradun-248001

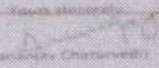
No. 1340 /Management/MLP/UHC-2021 Date: 05.04.2021

Subject: REQUESTING NOC for construction of Packaged Sewerage Plant of 20KLD capacity in High Court Premises.

Sir,

With reference to your letter no. A-250/710(2) dated 23.12.2019 on the subject noted above, I have been directed to inform you that Hon'ble Court has been pleased to issue NOC for your proposal with the condition that your Project Implementation Unit would coordinate with the Provincial Division, PWD, Nainital with respect to the identification of technically feasible land in the High Court Premises towards construction of Sewerage Plant.

You are, therefore, informed accordingly to initiate the proceedings in coordination with the Provincial Division, PWD, Nainital.

Yours sincerely,

(Sh. Anil Kumar Chaturvedi)

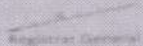
No. 1340 /Management/MLP/UHC-2021 Date: 05.04.2021

Copy to:

- Executive Engineer, Provincial Division, PWD, Nainital with the direction to take necessary steps in this regard under coordination with the Project Implementation Unit of UUSDA, Dehradun.

Sh. Anil / H2

1. Pl. to records
2. Intimate D.C. - Mr. IPM


Registrar General

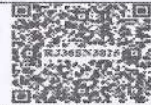


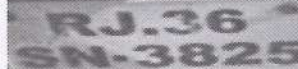
Pollution Under Control Certificates of vehicles and equipment

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate
 Authorised By :
 State Transport Department

 Date : 12/05/2022
 Time : 13:18:50 PM
 Validity upto : 11/05/2023

 Certificate SL. No. : UK00702000006410
 Registration No. : RJ36SN3825
 Date of Registration : 20/Jan/2018
 Month & Year of Manufacturing : November-2017
 Valid Mobile Number : *****1139
 Emission Norms : BHARAT STAGE IV
 Fuel : PETROL
 PUC Code : UK0070200
 GSTIN :
 Fees : Rs.100.00(GST as applicable)
 MIL observation : 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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	3.0	0.15
	Hydrocarbon, (THC/HC)	ppm	3000.0	177.5
High idling emissions	CO	percentage (%)	0.0	0.0
	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, Ballapur
 (Garni Cantt Road) Dehradun
 Mob.: 8077720007


Form 59

[See rules 115 (2)]

Pollution Under Control Certificate
 Authorised By :
 State Transport Department

 Date : 12/05/2022
 Time : 13:20:44 PM
 Validity upto : 11/05/2023

 Certificate SL. No. : UK00702000006411
 Registration No. : UK07AV2805
 Date of Registration : 23/Feb/2013
 Month & Year of Manufacturing : February-2012
 Valid Mobile Number : *****1139
 Emission Norms : EURO 4
 Fuel : PETROL
 PUC Code : UK0070200
 GSTIN :
 Fees : Rs. 100.00 (GST as applicable)
 MIL observation : 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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	0.3	0.19
	Hydrocarbon, (THC/HC)	ppm	200.0	143.38
High idling emissions	CO	percentage (%)	0.2	0.16
	RPM	RPM	2500 ± 200	2441.0
	Lambda	-	1 ± 0.03	1.02
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, Ballapur
 (Garhi Cantt Road) Dehradun
 Mob.: 8077720007




Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
State Transport Department

Date : 12/05/2022
Time : 13:17:29 PM
Validity upto : 11/11/2022



Certificate SL. No. : UK00702000006409
Registration No. : UK07AZ5420
Date of Registration : 21/Oct/2013
Month & Year of Manufacturing : October-2013
Valid Mobile Number : *****1139
Emission Norms : EURO 3
Fuel : PETROL
PUC Code : UK0070200
GSTIN :
Fees : Rs.100.00(GST as applicable)
MIL observation : 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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	3.0	0.22
	Hydrocarbon, (THC/HC)	ppm	3000.0	141.19
High idling emissions	CO	percentage (%)	0.0	0.0
	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

[Signature]
Chauhan Pollution Check Point
and Insurance
107, Canal Road, Ballapur
(Garhi Cantt Road) Dehradun
Mob.: 8077720007





Form 59

[See rules 115 (2)]

Pollution Under Control Certificate
 Authorised By :
 State Transport Department

 Date : 12/05/2022
 Time : 16:40:44 PM
 Validity upto : 11/11/2022

 Certificate SL. No. : UK00701990001227
 Registration No. : RJ27EA4131
 Date of Registration : 09/May/2017
 Month & Year of Manufacturing : April-2017
 Valid Mobile Number : *****1139
 Emission Norms : BHARAT STAGE III
 Fuel : DIESEL
 PUC Code : UK0070199
 GSTIN :
 Fees : Rs.100.00(GST as applicable)
 MIL observation : 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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.93

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, Bahapur
 (Ganhi Cantt Road) Dehradun
 Mob.: 8077720007

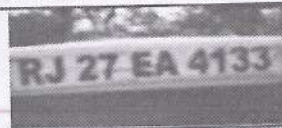

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate
 Authorised By :
 State Transport Department

 Date : 10/05/2022
 Time : 18:18:25 PM
 Validity upto : 09/11/2022


Certificate SL. No.	:	UK00701990001220
Registration No.	:	RJ27EA4133
Date of Registration	:	09/May/2017
Month & Year of Manufacturing	:	March-2017
Valid Mobile Number	:	*****1139
Emission Norms	:	BHARAT STAGE III
Fuel	:	DIESEL
PUC Code	:	UK0070199
GSTIN	:	
Fees	:	Rs.100.00(GST as applicable)
MIL observation	:	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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	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
 and Insurance
 107, Canal Road, Ballapur
 (Garhi Cantt Road) Dehradun
 Mob.: 8077720007

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


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
 Valid Mobile Number : *****1139
 Emission Norms : BHARAT STAGE III
 Fuel : DIESEL
 PUC Code : UK0070199
 GSTIN :
 Fees : Rs.100.00(GST as applicable)
 MIL observation : 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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.22

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, Ballapur
 (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 : 18:35:22 PM
 Validity upto : 09/11/2022

 Certificate SL. No. : UK00701990001224
 Registration No. : RJ02RD7440
 Date of Registration : 12/Aug/2016
 Month & Year of Manufacturing : August-2016
 Valid Mobile Number : *****1139
 Emission Norms : EURO 3
 Fuel : DIESEL
 PUC Code : UK0070199
 GSTIN :
 Fees : Rs.100.00(GST as applicable)
 MIL observation : 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
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	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.

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

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

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


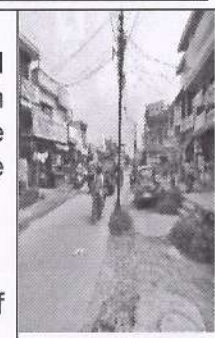


Traffic Management Plan (TMP)

Name of Major Roads	Length of Road (M)	Width (M)	Traffic Density Low/Medium/High	Proposed Trench Width (M)	TMP	Photographs
NH Dehradun-Haridwar Road	7207	32	High	1.0 To 2.25	Sewer line will be laid on one side of the road, ensuring sufficient right of way	
Mussorie Ring Road Dehradun	6633	8	High	1.0 To 2.25	Sewer line will be laid on one side of the road, ensuring sufficient right of way	
Vivekanand Enclave	160	4	Low	1	Sewer line will be laid on one side of the road, ensuring sufficient right of way	

DRA-BIPL Joint Venture



ERS LIMITED

Lower Natthan pur Road	2038	6	Medium	1.0 To 2.00	Closure of one side of the road and allow ROW to pedestrian and two Wheelers	
Harrawala road	683	7	Medium	1	Sewer line will be laid on one side of the road, ensuring sufficient right of way	
Nakronda Road	1700	8	Medium	2	Sewer line will be laid on one side of the road, ensuring sufficient right of way	



SAFEGUARD ACTIVITIES INCLUDING COVID-19



DRA-BIPL Joint Venture



SAFEGUARD ACTIVITIES INCLUDING COVID 19

EHS Plan for COVID Management at Construction Work Site

For

Package Title: Development of Sewerage System involving STP, Trunk sewer and allied works including 5 years of Operation & Maintenance, at Raipur, Dehradun, in Uttarakhand (WW-DDN-02)

Package Number: WW-DDN-02



DRA-BIPL Joint Venture



Document Detail and Control:

Rev 00		Date	
	Department / Designation	Name	Signature
Prepared by	Safety/EHS Officer	Mr.Muneesh Singh	
Reviewed by	QA/QC Site Engineer	Mr. Gurvinder Singh/ Mr. Mohit Kumar/ Mr. Vikas Saini/ Mr. Md. Sayyed	
Accepted by (PMC) Approved by Client (UUSDA)			



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).
- c. Management Standard Operating Procedure (SoP) for Work Resumption dated on 20th April 2020.

IV. GENERAL INSTRUCTION TO FOLLOW:

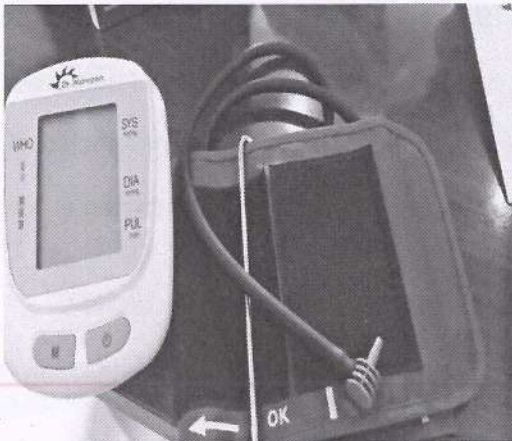
- ☐ Non-essential physical work that requires close contact between workers should not be carried out
- ☐ Work requiring skin to skin contact should not be carried out
- ☐ Plan all other work to minimize contact between workers
- ☐ Wash hands often with soap for at least 20 seconds
- ☐ Use hand sanitizer
- ☐ 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 others¹ at 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.

¹ Social 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.

² The 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)

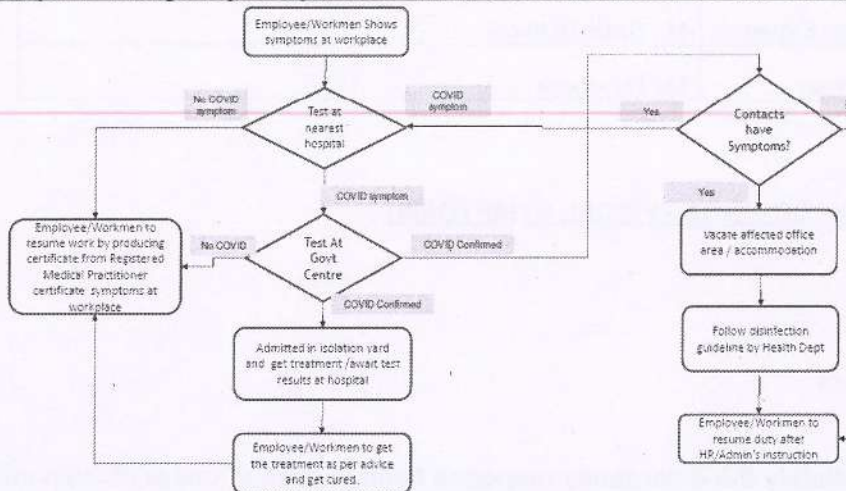
The engagement of workers falling in the high-risk category such as workers over the age of 55 years, with underlying medical conditions or health issues, etc. should be done only after obtaining the requisite clearance from trained and registered medical practitioners.

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/quarantine center 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):

S.No.	Position	Name Of Person	Remark
1.	Project manager	Mr. Anwar Jamal	
2.	Construction Manager/ senior Engineer	Mr. Rutul Patel	
3.	Site/QA-QC Engineer	Mr. Gurvinder Singh/ Mr. Mohit Kumar/ Mr. Vikas Saini/ Mr. Md. Sayyed	
4.	Hydraulic Engineer	Mr. Kamal Soni	
5.	Safety/EHS officer	Mr. Munesh Singh	
6.	EHS Supervisor	Ms. Anamika Rajak	
7.	Trenchless Technology Expert	Mr. Sazin Siddiqui	
8.	Social and Gender officer	Mr. Devendra	

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 fall 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 dining hours.
- ☐ Closed dust bin with inner cover shall be provided at all site office for disposing of used mask.

V. WORK-SITE PREVENTION PRACTICES:

- ☐ On day 0, before resuming the work on site post lockdown period, mandatory medical check-up 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.

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
 - 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 Drying 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.



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:

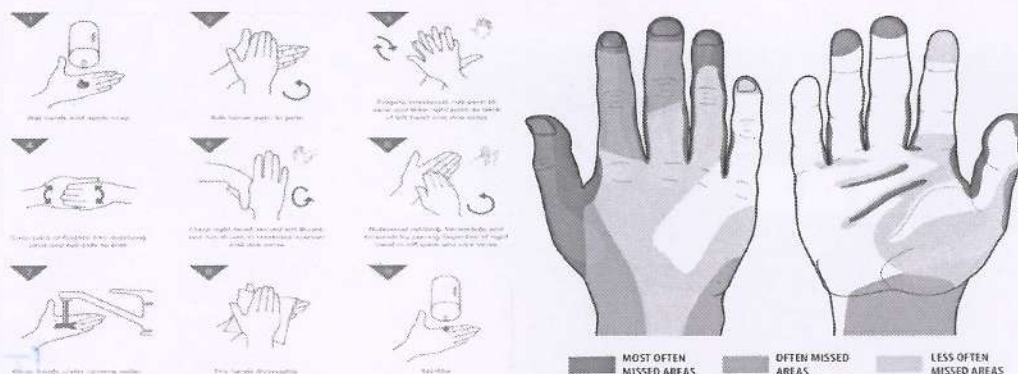
- ☐ All workmen shall be subjected to stringent medical check-up by the medical practitioner
- ☐ before allowing for EHS Induction.
- ☐ The doctor shall consider the additional information provided by the workmen in the
- ☐ screening, while checking the workmen.

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 guest 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 quarantine:

- ☐ 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.



VII. 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.

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.

VIII. 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
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).
- 4) **Feasibility:** availability and costs of the mask, and tolerability by individual employees.
- 5) **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

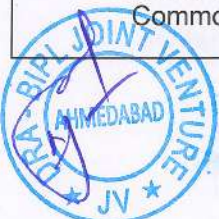
- ☐ depending on type of mask used, potential breathing difficulties
- ☐ false sense of security, leading to potentially less adherence to other preventive measures such as physical distancing and hand hygiene
- ☐ diversion of mask supplies and consequent shortage of mask for health care workers
- ☐ 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:

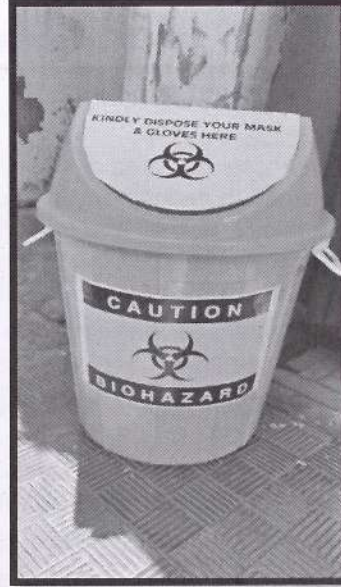
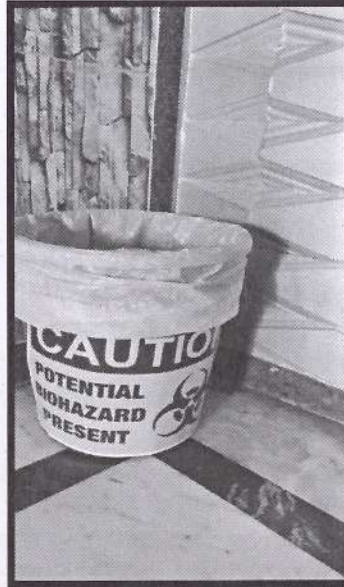
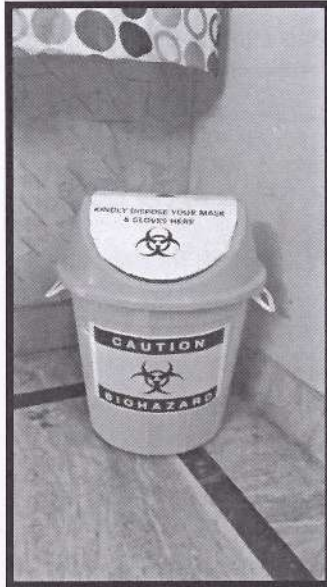
A MOU shall be signed between the organization and a hospital having waste treatment facility in its premises or is connected under waste collecting network of CBWTF.

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, therefore 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

Responsibilities & Accountabilities Matrix									
Process	P D/PM	Accts & Admi n	Section IC	All staff	EHS O	ERT Team	Superviso r	Camp Boss/ IR	Workmen
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			A		R		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			
Maintaining social distance	A	R	R	R	R	R	R	R	R
Monitoring of compliance	A	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	A	R	R		R	R			
Emergency Response	A	R	R		R	R		R	

A –
 Accountability R
 – Responsibility
 SI – Section In
 charges SE – Site
 Engineers
 ERT – Emergency Response Team



DRA-BIPL

DRA-BIPL

Checklist for Post Int down work resumption SoP compliances at Project Site
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**Annexure 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 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 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.	Ambulance /Emergency Vehicle shall be available			
8.	MoU with Nearby Hospital/ COVID Testing centre for providing faster medical facilities to suspected COVID cases.			
9.	Minimum 1M social distancing shall be ensured while keeping occupants in a single room			
10.	Whether Disinfecting spray is done at all the areas of colony after workmen left for work daily?			
11.	Emergency Contact & COVID-19 Helpline Nos shall be displayed across Offices and Workmen Habitat area			
12.	For quarantine purpose, separate room with adequate ventilation 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.			
16.	Employees shall work from their seats and avoid going to other's 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 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, digital sign-offs etc.			
21.	Whenever possible employees shall be encouraged to bring home cooked food and having lunch at their office desks			
22.	Office helpers who are serving food and cleaning utensils shall be regularly screened using thermal scanners & they must mandatorily wear masks and hand gloves all times.			
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/ training			
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 chargeOverall Head
(PM/PD/TFL)



DRA-BIPL	Checklist for Post Int down work resumption SoP compliances at Project Site				
	Docurent No: IN49-H80	Revision No: 00	Date: 20/04/2020	Page 1 of 1	

Narre of the Project (Cth Job code):
Project Director/Project Manager:
Site Loaton/Zone:

Segment/Cluster
Segment Head/Cluster Head/Taskforce 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 Identified/ 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 with breathlessness, the person shall be taken to nearest COVID testing centre/Government hospital.			
5.	No new Yorkers (without valid pass) shall be allowed at work locations			
6.	Vehicle & Goods shall not be allowed without valid permission & disinfection			
7.	Hand sanitizers shall be kept ready in the entrances and people after entry shall sanitize their hands before proceeding to work locations			
8.	Bio-metric (Finger touch) swiping for attendance shall be temporarily discontinued with alternatives such as ID card swiping, retina or face detection			
9.	Access control shall be implemented at all entry points to prevent unauthorised & unscreened workmen/staff entry to work locations.			
10.	Social distancing shall be maintained during workmen & staff transportation			
11.	While at site wearing 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 infection such as runny nose, cough, difficulty in breathing, fever etc.			
14.	Ensure tie up with Hospital/ COVID 19 testing centers for handling suspected COVID cases and emergencies.			
15.	Disinfection of company vehicle at regular intervals to prevent contamination			
16.	Workmen shall be instructed to maintain social distancing of 1m during Pep Talk, Meals time, Construction activities, transportation, staying etc.			
17.	Daily Pep-talk shall contain the awareness about COVID 19 and preventive measures and identify suspected cases using Thermal scanners.			
18.	Sub-contractor shall keep sanitizer/ hand wash soap solutions, water in sufficient quantity at all common points			
19.	Posters on do's and don'ts shall be displayed at the work location by the site management and the sub-contractor in Hindi or other local language			
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.	Foot operated waste bin with disposable garbage bag shall be used for waste collection across the site.			
24.	VIMEHS shall be used to generate Safe Execution Card, understanding SoP, filling Checklist and providing Pep Talks for all activities at site.			
25.	Regular training to be delivered using digital platform such as Microsoft Teams, RaPL, Induction Videos to raise awareness among workmen and staff on Personal hygiene, Sanitation, RBT, EHS Alerts & SoPs.			
26.	Use VM EHS Dashboards to conduct work progress review/EHS committee meeting through Microsoft Teams.			
27.	EHSO shall train all the ERT members on COVID 19 emergency response and their roles & responsibilities			
28.	In case of COVID 19 Positive or Suspected Case, ensure quarantining of the individual and inform Cluster/ Segment/ BU/ SBG/ IC level authorities as defined by L&T DC Admin team			
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 conspicuous locations for awareness to Project team			

SECTION INCHARGE / Admin-
Asst. in charge

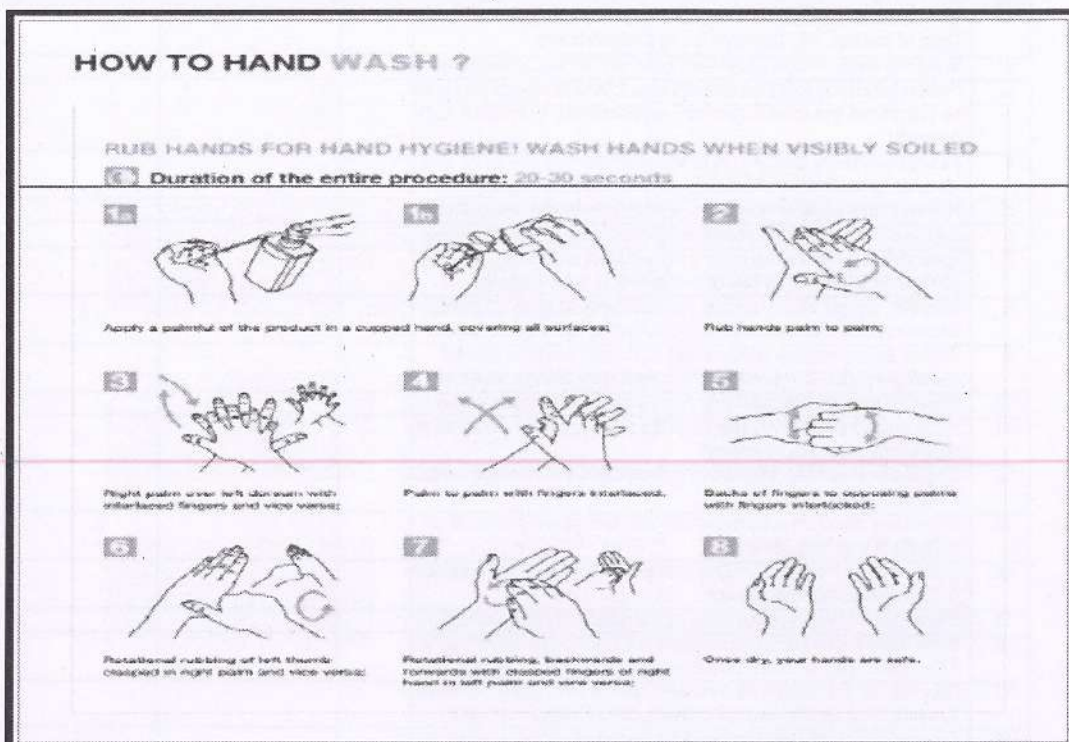
Overall Head
(Signature)

IR/ ADMIN/HR/SA

EHSO



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 mask



Inspect the mask for tears or holes



Find the top side, where the metal piece or stiff edge is



Ensure the colored side faces outwards



Place the metal piece or stiff edge over your nose



Cover your mouth, nose, and chin



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



Avoid touching the mask



Remove the mask from behind the ears or head



Keep the mask away from you and surfaces while removing it



Discard the mask immediately after use, preferably into a closed bin



Wash your hands after discarding the mask

Don'ts →



Do not use a ripped or damp mask



Do not wear the mask only over mouth or nose



Do not wear a loose mask



Do not touch the front of the mask



Do not remove the mask to talk to someone or do other things that would require touching the mask



Do not leave your used mask within the reach of others



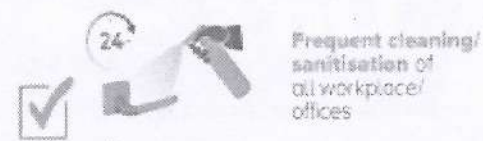
Do not re-use the mask

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

ER*MN @gñ&?



DOS and DONTs:



DON'TS



BASELINE ENVIRONMENTAL MONITORING

BASELINE ENVIRONMENTAL MONITORING

Regular monitoring of environmental parameters is of immense importance to assess the status of the environment during the construction phase. It is an essential tool in relation to environmental management as it provides the basis for rational management decisions regarding impact control. Monitoring is as important as that of control of pollution since the efficiency of control measures can only be determined by monitoring.

Environmental monitoring will be conducted during construction phase to assess the status of environment and if there is any release of pollutants from construction activities. It is also an indicator of how the environmental management plan is effective against controlling and preventing pollution. Environmental monitoring with respect to Ambient Air Quality, Ambient Noise Level, Drinking Water Quality, Waste Water Characteristic, Water Quality and Soil Quality will be carried out by NABL accredited and MoEF & CC recognized/registered laboratories.

Monitoring field	Monitoring Location	Monitoring parameters	Frequency
Ambient air quality	Total Five (05) locations in town 1-Nala at STP, Nakronda Nala 2-Nala at Adarsh Colony 3-Harrawala Drain 4-Vivek Vihar, Nakraunda 5-Nathanpur Nala	PM10, PM2.5, NO2, SO2, CO	Once prior to start of work Quarterly during construction
Ambient Noise	Total Five (05) locations in town Same as above	Day and night time noise levels	Once prior to start of work
Surface water quality	Total Five (05) Same as above	PH, Turbidity, Total Hardness, BOD, COD, Chloride, Iron, TDS, Odour, Taste, Oil & Grease	Once prior to start of work once in each season
Soil quality	Total Five (05) Same as above	PH, Elect. Conductivity (at 250C), Moisture (at 1050C), Texture (silt, clay, sand), Calcium	Once prior to start of work once in each season

		(as CaO), Magnesium (as Mg), Permeability, Nitrogen (as N), Sodium (as Na), Phosphate (as PO ₄), Potassium (as K), Organic Matter, oil and grease	
Ground Water quality	5 locations Same as above	pH, TDS, Total Hardness, Zn, Chloride, Iron, Copper, DO, Manganese, Sulphate, Nitrate, Fluoride, Hg, Cadmium, Cr+6, Arsenic, Lead, Total Alkalinity, Phosphate, Phenolic compound	Once prior to start of work once in each season

Ambient Air Quality

Objective

- To maintain ambient air quality within the prescribed standards on the worksite, at Site boundaries and in the surrounding area throughout the construction period

Impact

- Air quality impacts may cause an environmental nuisance, community complaints, Excessive levels of dust may also pose a health concern

Action

- Regular watering of the construction site and access roads;
- Avoiding or minimizing dust generating activities during high risk times such as dry and windy conditions;
- Promptly removing and disposing of materials, fine material spilled onto the access road surface, which may cause a dust nuisance;



- Restricting the movement of heavy vehicles to designated and restricted roads wherever practicable;
- Using water spray method to reduce the dust in the site
- Limiting the speed of vehicular traffic on unsealed roads;
- Vehicles carrying bulk materials that could cause air pollution will be covered with tarpaulin covers prior to Leaving site;
- Encouraging reduction in engine idling during on and off-loading activities;
- Stack height of DGs will be as per CPCB norms; and
- Construction site will be barricaded and camouflaged.

Monitoring

- Regular inspections (daily/weekly) of the construction worksite to determine compliance with the above;
- Weekly air quality monitoring at four (4) locations or as per Consent for Establish (CTE) representing typical upwind, down wind and cross wind direction of the construction site will be carried out;
- Visual monitoring of dust emissions will be conducted and watering frequency altered as required; and
- The area of construction and associated access areas will be regularly inspected to assess the effectiveness of dust mitigation measures.

Noise Pollution

Objective

- To prevent noise pollution from construction activities

Impact

- Noise impacts to work area, nearby residential areas and commercial places may Cause environmental nuisance.

Action

- Equipment used on site will be well maintained to limit noise impact
- Engines will be turned off when not in use
- Diesel generators and other continuous noise generating equipment will be provided with acoustic enclosures
- Strict adherence to maintenance schedule of generators, as specified by vendors, will be observed
- Height from which the construction material is dropped from / into the truck during unloading / loading materials will be limited;
- Appropriate hearing protection will be provided to workers working at high noise activity areas; and
- Awareness sessions will be conducted to workers on noise impacts and the need To minimize noise impacts from equipment operations.

Monitoring



- Equipment operators will undertake daily pre-start checks to verify equipment is in operating condition;
- Regular inspections (daily / weekly) of the construction worksite to determine compliance with the above;
- Regular monthly noise monitoring at identified locations within the project site will be carried out and in addition monitoring also will be undertaken within a reasonable and practicable time frame to investigate any complaint related to noise;
- The type of Sound Level Meter, method of measurement and Reporting of noise levels will comply with the standard procedures; and
- Records of equipment maintenance will be maintained by the site / activity in Charge.

Water Quality

Objective

- To prevent ground water and surface water contamination

Impact

- Contamination of water causes risk to human health, Degradation of water quality

Action

- Adequate sanitary facilities, i.e. toilets and showers, will be provided for the construction workforce
- Septic tank and soak pit will be provided to treat domestic waste water;
- Vehicle servicing areas, vehicle wash bays and lubrication bays will, as far as practical, be located within roofed and cemented areas;
- Proper handling of lubricant oils and fuels will be ensured to avoid spillage into ground as well as other water bodies
- The drainage in these covered areas will be connected to sewers via an oil/water interceptor;
- Any oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal;
- Any surplus wastewater from the concrete batching plant will be treated to comply with discharge standards before it is discharged; and
- Deposited silt and grit will be removed regularly.

Monitoring

- Drainage systems will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms;
- Surface and ground water samples within the site premises will be collected and analyzed through MoEF approved laboratory on quarterly basis;
- Surface water quality in the upstream and downstream of sewage treatment plant will be analyzed on quarterly basis; and
- Ground water quality in the nearby residential area will be analyzed on quarterly



Sample Grievance Registration Form

Date	Place of registration	Project Town			
		Project:			
Contact information/personal details					
Name		Gender	* Male * Female	Age	
Home address					
Place					
Phone no.					
E-mail					
Complaint/suggestion/comment/question Please provide the details (who, what, where, and how) of your grievance below:					
If included as attachment/note/letter, please tick here:					
How do you want us to reach you for feedback or update on your comment/grievance?					

The _____ Project welcomes complaints, suggestions, queries, and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback. Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name. Thank you.



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 Paryaj 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

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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)



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



राजेश भुषण, अतिरिक्त
सचिव
RAJESH BHUSHAN, IAS
SECRETARY



आरक्षक
अतिरिक्त
अतिरिक्त
अतिरिक्त

भारत सरकार
स्वास्थ्य एवं परिवार कल्याण विभाग
स्वास्थ्य एवं परिवार कल्याण मंत्रालय
Government of India
Department of Health and Family Welfare
Ministry of Health and Family Welfare
D.O. 90/NCDC/CEOH & CCH/2020-21
30th 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.

2. I 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 & Family Welfare (mohtfw.gov.in) and the website of National Centre for Disease Control (NCDC) (<https://ncdc.gov.in/WriteReadData/LinkImages/NationalActionPlanonHeatRelatedIllnesses.pdf>). In addition, I also draw your attention to an Advisory issued by this Ministry on 15th 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 escalate heat resilience measures in Health Facilities. An Inter-Sectoral 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 Heat Related Illnesses" to all Districts for effective management of cases of heat wave. From 1st 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 medicines, I.V. fluids, ice packs, ORS 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.

Room No. 156, A-Wing, Nirvan Bhawan, New Delhi-110 011
Tel: (011) 2306 1003, 2306 0221, Fax: (011) 2306 1202, E-mail: secyhw@nic.in

extreme heat/



-2-

5. 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 self-sufficiency in water.

6. 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.

7. 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 Regards

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 thirsty. Thirst is not a good indicator of dehydration.
- Carry drinking water when traveling.
- Use Oral Rehydration Solutions (ORS), and consume homemade drinks like lemon water, buttermilk/lassi, fruit juices with some added salt.
- Eat seasonal fruits and vegetables with high water content like water melon, musk melon, orange, grapes, pineapple, cucumber, lettuce or other locally available fruits and vegetables.

Stay covered:

- Wear thin loose, cotton garments preferably light coloured.
- Cover your head: use umbrellas, hat, cap, towel and other traditional head gears during exposure to direct sunlight.
- Wear shoes or chappals while going out in sun.

Stay alert:

- Listen to Radio, watch TV, read Newspaper for local weather news. Get the latest update of weather on India Meteorological Department (IMD) website at <https://mausam.india.gov.in>.

Stay indoors as much as possible:

- In well ventilated and cool places.
- Block direct sunlight and heat waves. Keep windows and curtains closed during the day, especially on the sunny side of your house. Open them up at night to let cooler air in.
- If going outdoors, limit your outdoor activity to cooler times of the day i.e., morning and evening.
- Reschedule or plan outdoor activities during cooler parts of the day.

For vulnerable population

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

These include:

- Infants and young children
- Pregnant 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 climates to a hot climate. If such persons are visiting during heatwave, they should allow one week's time for their bodies to acclimatized to heat and should drink plenty of water. Acclimatization is achieved by gradual increase in exposure/physical activity in hot environment.

Other precautions

- Elderly or sick people living alone should be supervised and their health monitored on a daily basis.
- Keep your home cool, use curtains, shutters or sunshade and open windows at night.
- Try to remain on lower floors during the day.
- Use fan, damp cloths 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
 - Watch out for symptoms of heat stress, which include:
 - dizziness or fainting,
 - nausea or vomiting,
 - headache
 - extreme thirst
 - decreased urination with unusually dark yellow urine
 - rapid breathing and heartbeat

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 last more than one hour

Heatstroke is a medical emergency!

Be aware of **Danger signs** & seek immediate medical attention if you observe

In adults

- Altered mental sensorium with disorientation, confusion and agitation, irritability, ataxia, seizure or coma
- Hot, red and dry skin
- Core body temperature $\geq 40^{\circ}\text{C}$ or 104°F
- Throbbing headache
- Anxiety, Dizziness, fainting and light headedness
- Muscle weakness or cramps
- Nausea and vomiting
- Rapid heartbeat, Rapid, shallow breathing

In children

- Refusal to feed
- Excessive irritability
- Decreased urine output
- Dry oral mucosa & absence of tear/sunken 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**
by:
• 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

Venue: DBOC-WW-DDN-02Office

Date: 16.02.2022

Subject: Training of DBOC , PIU Staff on safeguard procedure under UIRUDP Package-WW-DDN-02 (Raipur).

1. Shared details of SPS-2009 of ADB.
2. Emphasised on deployment of EHS Supervisor and Social Person
3. Discussed about details mentioned in IEE & RP Report.
4. Discussed about reporting protocol as per IEE & RP Report.
5. Clarified that no construction activity can be initiated till IEE & RP Report are revised and approved by ADB.

Uttarakhand Urban Sector Development Agency (UUSDA)
Uttarakhand Integrated & Resilient Urban Development Project (UIRUDP)
Urban Development Department, Uttarakhand
राज्यीय स्तर पर शहरी विकास, कौशल विकास, रोजगार, वस्ती, उत्तराखण्ड
दूरभाष-01-735-2753894 | www.uusdip.org | Email: uusdip@gmail.com

Awareness and Public Consultation Attendance Sheet

Package: Raipur

Place: Contractor office

Date & Time: 16/02/2022

Total No. of Participants		M	F

Sr.n.	Name and Contact	Gender M/F	Signature
1.	Dr. Sudhanshu Kaushik 9597279020	M	Sudhanshu
2.	Anwar Jamal 9929365009	M	[Signature]
3.	RUTUL PATEL 9557534432	M	[Signature]
4.	Chandhu Behat. 9265379423	M	Chandhu Behat
5.	Trish Thakore 9582547273	M	Trish Thakore
6.	Anamika Rajale 7879382640 (EHS Staff)	F	Rajale

DRA-BIPL Joint Venture



Contractor's EHS Policy



DRA-BIPL JOINT VENTURE PVT. LTD BHUGAN

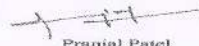
OCCUPATIONAL HEALTH, SAFETY & ENVIRONMENT POLICY

We, at DRA-BIPL JV Pvt Ltd, engaged in execution of infrastructural projects assigned to us, are committed to ensuring continual improvement in our occupational health, safety & environment (OHSSE) performance.

To achieve the Policy Objective, we aim at

- Complying with the applicable HSE legislation and other statutory requirements;
- Establishing, reviewing and strengthening our HSE Management System in an ongoing manner through periodic review with the involvement of all DRA-BIPL personnel at the required level;
- Implementing safe operating procedures (SOPs) and controls and the relevant safety practices in construction activities;
- Endeavouring to develop the culture of resource conservation and pollution prevention
- Respecting the surrounding community and controlling environmental health hazards arising from operations and events as a result of the project site activities;
- Providing awareness training to the concerned personnel who are directly associated with the construction activities at our project sites to ensure good HSE performance
- Working as a team in our effort to achieve the objective of averting accident without harm and damage;
- Recognizing HSE management as shared responsibility at all appropriate levels.
- We shall communicate this policy to all our staff and workforce, and the policy will be made available to all other stakeholders on request.

Dated: 10 December 2021
Place: Ahmedabad


Pranjal Patel
(Managing Director)



CONTRACTOR'S EHS POLICY

OS.NO.	TITLE	PAGES
1	Site Environmental Management Plan (SEMP)	3
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