



Environmental Monitoring Report

Project Number: 40648-034
August 2017
Part B: Annexures (Pages 121 – 179)

Period: January 2017 – June 2017

IND: Infrastructure Development Investment Program for Tourism - Tranche 3

Submitted by

Program Management Unit, Tourism Development Board, IDIPT-Himachal Pradesh,
Shimla

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Asian Development Bank



Appendix-1

16.1.17 *Estimate*

1- ~~सुन्दरगढ़~~ - तारना गावा मन्दिर
 2- सौरभ - तारना मोना मन्दिर
 3- हरेकाशी - तारना गावा मन्दिर
 4- जानकीदास डोगरा एडवोकेट

316१॥ तारना Ph- 222271
 mob. 9418056982

Annexure 43

Status of Air Quality /Water Quality/Noise level at Jwalaji site (Baseline data)



Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Golf Course Extension Road, Sector-57, Gurgaon (Hr) Tel: 0124-4291036

Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)

Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: VEL/STCPL/AA/01 Report No.: VEL/AA/1701/001
 Issued To: M/sShah Technical Consultant Private Limited In associated with Grass Root research and Consultancy
 HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town
 Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Sample Description : Ambient Air Quality Monitoring

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by (Name & Designation) : Mr.Tarun Singh (Field Coordinator)
 Type of Unit : Construction Unit
 Sampling Location : Jwalaji Temple Complex
 Latitude : 31° 52' 49.6" N
 Longitude : 76° 19' 27.6" E
 Date of commencement of monitoring : 12/01/2017
 Date of end of monitoring : 13/01/2017
 Surrounding Activity : Human, Vehicular and Other Activities
 Sampling Duration : 24 Hrs
 Instrument Used : RDS & FPS
 Instrument Calibration Status : Calibrated
 Meteorological condition : Clear Sky
 Sampling & Analysis Protocol : IS-5182& CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	18.2	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006&CPCB Guidelines	46.5	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	13.5	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009.

NOTE: a) The results listed refer only to the tested samples & applicable parameters.
 b) Total liabilities of our lab will be restricted to the invoice amount only.
 c) The sample will be destroyed after retention time unless otherwise specified.
 d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law.



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(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: VEL/STCPL/AA/02 Report No.: VEL/AA/1701/002
 Issued To: M/sShah Technical Consultant Private Limited Format No.: 5.10 F-01
 In associated with Grass Root research and Consultancy Party Reference No.: NIL
 HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town Reporting Date: 28/01/2017
 Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Sample Description : Ambient Air Quality Monitoring

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by (Name & Designation) : Mr. Tarun Singh (Field Coordinator)
 Type of Unit : Construction Unit
 Sampling Location : Parking Area Opposite to Hotel Jwalaji HPTDC
 Latitude : 31° 52' 57.6" N
 Longitude : 76° 19' 09.5" E
 Date of commencement of monitoring : 12/01/2017
 Date of end of monitoring : 13/01/2017
 Surrounding Activity : Human, Vehicular and Other Activities
 Sampling Duration : 24 Hrs
 Instrument Used : RDS & FPS
 Instrument Calibration Status : Calibrated
 Meteorological condition : Clear Sky
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	28.1	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	68.4	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	16.1	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	5.8	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

(ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **VEL/STCPL/N/01** Report No.: **VEL/N/1701/001**
 Name & Address of Client: **M/sShah Technical Consultant Private Limited** In associated with Grass Root research and Consultancy
 HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, [Jwalaji] Town
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **15/01/2017**

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by : Mr. Tarun Singh (Field Coordinator)
 Sampling Location : [Jwalaji] Temple Complex
 Latitude : 31° 52' 49.6" N
 Longitude : 76° 19' 27.6" E
 Instrument Used : Sound Level Meter
 Instrument Code : VEL/SLM/01
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 12/01/2017 to 13/01/2017
 Surrounding Activity : Human, Vehicular & other Activities
 Sampling & Analysis Protocol : CPCB Guidelines & IS-9989
 Sampling Duration : 24 Hrs
 Parameter Required : As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	58.1	44.5	dB(A)
2.	L_{eq}	CPCB Guidelines/ IS 9989	42.5	38.9	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	49.0	39.5	dB(A)
4.	CPCB Limits for L_{eq} (Sensitive Area)		50.00	40.00	dB(A)

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

(ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **EL/STCPL/N/02** Report No.: **VEL/N/1701/002**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Consultancy Party Reference No: **NIL**
 HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town Reporting Date: **28/01/2017**
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **15/01/2017**

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by : Mr. Tarun Singh (Field Coordinator)
 Sampling Location : Parking Area Opposite to Hotel Jwalaji HPTDC
 Latitude : 31° 52' 57.6" N
 Longitude : 76° 19' 09.5" E
 Instrument Used : Sound Level Meter
 Instrument Code : VEL/SLM/02
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 12/01/2017 to 13/01/2017
 Surrounding Activity : Human, Vehicular & Other Activities
 Sampling & Analysis Protocol : CPCB Guidelines & IS-9989
 Sampling Duration : 24 Hours
 Parameter Required : As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	76.2	58.2	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	49.1	42.2	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	62.1	49.3	dB(A)
4.	CPCB Limits for Leq (Commercial Area)	---	65.00	55.00	dB(A)

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(Construction Period-March, 2017)



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Test Certificate

Sample Number:	VEL/STCPL/AA/06	Report No.:	VEL/AA/1703/006
Issued To:	M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	16/03/2017
		Receipt Date:	10/03/2017

Sample Description : Ambient Air Quality Monitoring

General Information:-

Client Representative	: Team Leader
Sample collected by (Name & Designation)	: Mr.Tarun Singh (Field Coordinator)
Type of Unit	: Construction Unit
Sampling Location	: Jwalaji Temple Complex
Latitude	: 31° 52' 29.9" N
Longitude	: 76° 19' 16.0" E
Date of commencement of monitoring	: 06/03/2017
Date of end of monitoring	: 07/03/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	20.9	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006&CPCB Guidelines	50.6	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	15.2	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009.

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 (ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number: VEL/STCPL/AA/05
 Issued To: M/s Shah Technical Consultant Private Limited in associated with Grass Root research and Consultancy HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra

Report No.: VEL/AA/1703/005
 Format No.: 5.10 F-01
 Party Reference No.: NIL
 Reporting Date: 16/03/2017
 Receipt Date: 10/03/2017

Sample Description: Ambient Air Quality Monitoring

General Information:-

Client Representative	: Team Leader
Sample collected by (Name & Designation)	: Mr. Tarun Singh (Field Coordinator)
Type of Unit	: Construction Unit
Sampling Location	: Parking Area Opposite to Hotel Jwalaji HPTDC
Latitude	: 31° 52' 34.4" N
Longitude	: 76° 19' 05.7" E
Date of commencement of monitoring	: 06/03/2017
Date of end of monitoring	: 07/03/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	31.5	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	70.3	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	16.8	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	6.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Test Certificate

Sample Number:	VEL/STCPL/AN/06	Report No.:	VEL/AN/1703/006
Name & Address of Client:	M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town Tourist Information Centre, Dhallara, Tehsil: Dehra, District: Kangra	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	16/03/2017
		Receipt Date:	10/03/2017
Sample Description:	AMBIENT NOISE LEVEL MONITORING		

General Information:-

Client Representative	Team Leader
Sample collected by	Mr. Taran Singh (Field Coordinator)
Sampling Location	Jwalaji Temple Complex
Latitude	31° 52' 29.9" N
Longitude	76° 19' 16.0" E
Instrument Used	Sound Level Meter
Instrument Code	VEL/SLM/01
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	06/03/2017 to 07/03/2017
Surrounding Activity	Human, Vehicular & other Activities
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	24 Hrs
Parameter Required	As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Le _{max}	CPCB Guidelines/ IS 9989	56.5	45.8	dB(A)
2.	Le _{eq}	CPCB Guidelines/ IS 9989	41.5	40.2	dB(A)
3.	Le _q	CPCB Guidelines/ IS 9989	49.00	38.90	dB(A)
4.	CPCB Limits for Le _q (Sensitive Area)		50.00	40.00	dB(A)

NOTE: a) The results listed refer only to the tested samples & applicable parameters
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(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number:	VEL/STCPL/AN/05	Report No.:	VEL/AN/1703/005
Name & Address of Client:	M/s Shah Technical Consultant Private Limited in associated with Grass Root research and Consultancy HPTDC/13/1 upgrading the Historic urban Precincts and creating a heritage Circuit, Jwalaji Town Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	16/03/2017
		Receipt Date:	10/03/2017
Sample Description:	AMBIENT NOISE LEVEL MONITORING		

General Information:-

Client Representative	Team Leader
Sample collected by	Mr. Tarun Singh (Field Coordinator)
Sampling Location	Parking Area Opposite to Hotel Jwalaji HPTDC
Latitude	31° 52' 34.4" N
Longitude	76° 19' 05.7" E
Instrument Used	Sound Level Meter
Instrument Code	VEL/SLM/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	06/03/2017 to 07/03/2017
Surrounding Activity	Human, Vehicular & Other Activities
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	24 Hours
Parameter Required	As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1	L_{max}	CPCB Guidelines/ IS 9989	73.9	56.8	dB(A)
2	L_{eqn}	CPCB Guidelines/ IS 9989	48.5	41.8	dB(A)
3	L_{eq}	CPCB Guidelines/ IS 9989	60.40	47.60	dB(A)
4	CPCB Limits for L_{eq} (Commercial Area)	--	65.00	55.00	dB(A)

NOTE: a) The results listed refer only to the tested samples & applicable parameters
b) Total liabilities of our lab will be restricted to the invoice amount only
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Annexure 44

PUBLIC CONSULTATION

Project Name: Upgrading the Historic Urban Precincts & Creating a Heritage Circuit, Jwalaji Town**Package No-** Package No. HPTDB/13/1**Date of Visit:** 17th January, 2017**Project Phase:** During Construction**Consultation Done By:** Dr. Seema Srivastava (Safeguard Specialist, Environment, PMC) & Dr. Basobi Sheel (Safeguard Specialist, Social, PMC)

Place: Shops nearby TRC Premises	
Participants: Shop Owners of nearby TRC premises. Signatures are attached as Appendix-1	
Objective: The objective of consultation was to share the information related to project and seek their views in strengthening the safeguard document to maximize the project benefits.	
1.	Issues Discussed: Following issues pertaining to Social/Environmental safeguards and existing direct and indirect impacts have been discussed for the improvement options. <ul style="list-style-type: none"> • Impact on the local environment due to construction activities of the project. • Scope of employment generation for the local people during construction phase. • Construction activity whether causing any type of hazard or not? • Any loss of land or property due to construction activity? • Any damage to historical or cultural monuments? • Problems faced by the pilgrims/shopkeepers/local people in their daily activities due to improper amenities?
2	Shopkeepers Response: <ul style="list-style-type: none"> • They are interested in amenities development. • Local community shall be benefitted through development of local area. • There is negligible impact on environment during construction and being mitigated by suitable measures • There is no tree cutting/cultural loss. • Pilgrims are not facing any problem due to the construction activities.
3	Recommendations & Suggestions: <ul style="list-style-type: none"> • Shop owners requested that construction of their shops may be completed by March, 2017 so that it could be handed over to them.
PHOTOGRAPHS	
<div style="display: flex; justify-content: space-around;">   </div>	

Appendix-1

Jwafaji Shopkeepers Estimate
विचार गुण 9816034012
संजीव ल दूरे माई
@ Ashak Kumar
9816237866
50 Duni

Annexure 45

Status of Air Quality /Water Quality/Noise level at Dharamshala sites (Baseline data)



Vardan EnviroLab

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 Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
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 (ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number:	VEL/STCPL/AA/03	Report No.:	VEL/A/1701/003
Issued To:	M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshalaMcleodganj. Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	28.01.2017
Sample Description :	Ambient Air Quality Monitoring		

General Information:-

Client Representative	: B. S. Bhardwaj (Team Leader)
Sample collected by (Name & Designation)	: Mr.Tarun Singh (Field Coordinator)
Type of Unit	: Construction Unit
Sampling Location	: DC Office Parking
Latitude	: 32° 12' 41.8" N
Longitude	: 76° 19' 42.0" E
Date of commencement of monitoring	: 13/01/2017
Date of end of monitoring	: 14/01/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182& CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	29.7	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006&CPCB Guidelines	69.8	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reffirmed-1998	15.2	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	5.7	µg/m ³	80
5.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Golf Course Extension Road, Sector-57, Gurgaon (Hr) Tel: 0124-4291036

Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)

Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **VEL/STCPL/AA/04** Report No.: **VEL/A/1701/004**
 Issued To: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
In associated with Grass Root research and Consultancy Party Reference No.: **NIL**
HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshalaMcleodganj. Reporting Date: **28.01.2017**
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra

Sample Description : **Ambient Air Quality Monitoring**

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by (Name & Designation) : Mr. Tarun Singh (Field Coordinator)
 Type of Unit : Construction Unit
 Sampling Location : Aghajnagar Mahadev Temple
 Latitude : 32° 12' 69.4" N
 Longitude : 76° 22' 34.4" E
 Date of commencement of monitoring : 13/01/2017
 Date of end of monitoring : 14/01/2017
 Surrounding Activity : Human, Vehicular and Other Activities
 Sampling Duration : 24 Hrs
 Instrument Used : RDS & FPS
 Instrument Calibration Status : Calibrated
 Meteorological condition : Clear Sky
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	19.6	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	45.1	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	11.1	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.5	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

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Test Certificate

Sample Number: VEL/STCPL/AA/05 Report No.: VEL/A/1701/005
 Issued To: M/s **Shah Technical Consultant Private Limited** Format No.: 5.10 F-01
 In associated with Grass Root research and Consultancy Party Reference No.: NIL
 HPTDC/13/2 conserving prominent temple Reporting Date: 28/01/2017
 Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj.
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra

Sample Description : Ambient Air Quality Monitoring

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by (Name & Designation) : Mr. Tarun Singh (Field Coordinator)
 Type of Unit : Construction Unit
 Sampling Location : Bhagsu Nag Temple
 Latitude : 32° 14' 65.6" N
 Longitude : 76° 20' 0.71" E
 Date of commencement of monitoring : 13/01/2017
 Date of end of monitoring : 14/01/2017
 Surrounding Activity : Human, Vehicular and Other Activities
 Sampling Duration : 24 Hrs
 Instrument Used : RDS & FPS
 Instrument Calibration Status : Calibrated
 Meteorological condition : Clear Sky
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	21.3	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	46.2	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	12.5	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

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Test Certificate

Sample Number: **VEL/STCPL/AA/06** Report No.: **VEL/A/1701/006**
 Issued To: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
Limited In associated with Grass Root research and Consultancy Party Reference No.: **NIL**
HPTDC/13/2 conserving prominent temple Reporting Date: **28/01/2016**
Precincts and upgrading infrastructure for tourism and dharamshalaMcleodganj.
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra

Sample Description : **Ambient Air Quality Monitoring**

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by (Name & Designation) : Mr.Tarun Singh (Field Coordinator)
 Type of Unit : Construction Unit
 Sampling Location : FuwaraChowk
 Latitude : 32° 13' 26.0" N
 Longitude : 76° 19' 15.4"E
 Date of commencement of monitoring : 13/01/2017
 Date of end of monitoring : 14/01/2017
 Surrounding Activity : Human, Vehicular and Other Activities
 Sampling Duration : 24Hrs
 Instrument Used : RDS & FPS
 Instrument Calibration Status : Calibrated
 Meteorological condition : Clear Sky
 Sampling & Analysis Protocol : IS-5182& CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	25.1	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006&CPCB Guidelines	59.2	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	14.2	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	5.1	µg/m ³	80
5.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Test Certificate

Sample Number: **VEL/STCPL/N/03** Report No.: **VEL/N/1701/003**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** In associated with Grass Root research and Consultancy
 HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj.
Tourist Information Centre, Dhallara, Tehsil: Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **15/01/2017**
 Format No.: **5.10 F-01**
 Party Reference No.: **NIL**
 Reporting Date: **28/01/2017**

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by : Mr. Tarun Singh (Field Coordinator)
 Sampling Location : DC Office Parking
 Latitude : 32° 12' 41.0" N
 Longitude : 76° 19' 39.6" E
 Instrument Used : Sound Level Meter
 Instrument Code : VEL/SLM/01
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 13/01/2017 to 14/01/2017
 Surrounding Activity : Human, Vehicular & Other Activities
 Sampling & Analysis Protocol : CPCB Guidelines & IS-9989
 Sampling Duration : 24 Hours
 Parameter Required : As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	75.2	62.1	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.2	42.0	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	57.2	47.8	dB(A)
4.	CPCB Limits for Leq (Commercial Area)	--	65.00	55.00	dB(A)

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Test Certificate

Sample Number: **VEL/STCPL/N/04** Report No.: **VEL/N/1701/004**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
Limited In associated with Grass Root research and Consultancy Party Reference No.: **Nil**
HPTDC/13/2 conserving prominent temple Reporting Date: **28.01.2017**
Precincts and upgrading infrastructure for tourism and dharamshala(Mcleodgan).
Tourist Information Centre, Dhallara, Tehsil: Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **15/01/2017**

General Information:-

Client Representative	: B. S. Bhardwaj (Team Leader)
Sample collected by	: Mr. Tarun Singh (Field Coordinator)
Sampling Location	: Aghajnagar Mahadev Temple
Latitude	: 32°12'67.2"N
Longitude	: 76°22'33.0"E
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/01/2017 to 14/01/2017
Surrounding Activity	: Human & Vehicular Activities
Sampling & Analysis Protocol	: CPCB Guidelines & IS-9989
Sampling Duration	: 24 Hours
Parameter Required	: As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	51.3	38.1	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	41.3	32.5	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	43.7	34.5	dB(A)
4.	CPCB Limits for L_{eq} (Sensitive Area)	--	50.00	40.00	dB(A)

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Test Certificate

Sample Number: **EL/STCPL/N/05** Report No.: **VEL/N/1701/005**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
Limited In associated with Grass Root research and Consultancy Party Reference No.: **NIL**
HPTDC/13/2 conserving prominent temple Reporting Date: **28/01/2017**
Precincts and upgrading infrastructure for
tourism and dharamshalaMcleodganj,
Tourist Information Centre, Dhaliara, Tehsil:
Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **15/01/2017**

General Information:-

Client Representative : B. S. Bhardwaj (Team Leader)
 Sample collected by : Mr. Tarun Singh (Field Coordinator)
 Sampling Location : Bhagsu Nag Temple
 Latitude : 32° 14' 63.1" N
 Longitude : 76° 20' 18.0" E
 Instrument Used : Sound Level Meter
 Instrument Code : VEL/SLM/01
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 13/01/2016 to 14/01/2016
 Surrounding Activity : Human and Vehicular Activities
 Sampling & Analysis Protocol : CPCB Guidelines & IS-9989
 Sampling Duration : 24 Hours
 Parameter Required : As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	47.1	42.1	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	40.8	32.5	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	43.9	35.3	dB(A)
4.	CPCB Limits for L_{eq} (Sensitive Area)	--	50.00	40.00	dB(A)

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Test Certificate

Sample Number: **EL/STCPL/N/06** Report No.: **VEL/N/1701/006**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
Limited In associated with Grass Root research and Consultancy Party Reference No.: **NIL**
HPTDC/13/2 conserving prominent temple Reporting Date: **28/01/2017**
Precincts and upgrading infrastructure for tourism and dharamshalaMcleodganj.
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **15/01/2017**

General Information:-

Client Representative	: B. S. Bhardwaj (Team Leader)
Sample collected by	: Mr. Tarun Singh (Field Coordinator)
Sampling Location	: Fuwara Chowk
Latitude	: 32°13'24.8"N
Longitude	: 76°19'13.6"E
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/01/2017 to 14/01/2017
Surrounding Activity	: Human and Vehicular Activities
Sampling & Analysis Protocol	: CPCB Guidelines & IS-9989
Sampling Duration	: 24 Hours
Parameter Required	: As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	75.2	66.8	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	48.1	41.2	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	58.2	47.2	dB(A)
4.	CPCB Limits for L_{eq} (Commercial Area)	--	65.00	55.00	dB(A)

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Test Certificate

Sample Number:	VEL/ STCPL /W/001	Report No.:	VEL/W/1712/001
Issued To:	M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj. Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Format No.:	5.10 F-01
	Surface Water	Party Reference No.:	NIL
Sample Description:		Reporting Date:	25/01/2017
Sampling Location:	Bhagsu Nag Temple (Water Fall)	Receipt Date:	15/01/2017
Sample Collected by:	Mr. Tarun Singh (Field Analyst)	Sampling Date:	13/01/2017
		Sampling Type:	Grab
Client Representative:	Mr. B.S. Bhardwaj (Team Leader)	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22 nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	APHA 22 nd Edition, 4500-H ⁺ B	6.96	-
2.	Total Dissolved Solids	APHA 22 nd Edition, 2540 C	63.00	mg/l
3.	BOD _{30days} at 27°C	IS 3025, P-44, 1999 (Reaffirmed 2003)	BDL (DL 1)	mg/l
4.	Dissolved Oxygen	IS 3025, (Part -38) 1984	10.2	mg/l
5.	Oil & Grease	IS: 3025 Part 39 - 1991	<0.1	mg/l
6.	Total Coliform	IS 1622, 1981	Absent	MPN/100ml

NOTE: a) The results listed refer only to the tested samples & applicable parameters
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Test Certificate

Sample Number:	VEL/ STCPL /W/002	Report No.:	VEL/W/1712/002
Issued To:	M/s Shah Technical Consultant Private Limited	Format No.:	5.10 F-01
	In associated with Grass Root research and Consultancy	Party Reference No.:	NIL
	HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj.	Reporting Date:	25/01/2017
	Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Receipt Date:	15/01/2017
Sample Description:	Surface Water	Sampling Date:	13/01/2017
Sampling Location:	Near Aghanjar Mahadev (Water Course)	Sampling Type:	Grab
		Preservation:	Refrigerated
Sample Collected by:	Mr. Tarun Singh	Sampling Quantity:	2.0 Ltr
(Name & Designation)	(Field Analyst)	Parameter Required:	As per Work Order
Client Representative:	Mr. B.S. Bhardwaj (Team Leader)		
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012		

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	APHA 22 nd Edition, 4500-H ⁺ B	6.85	-
2.	Total Suspended Solids	APHA 22 nd Edition, 2540 D	59.0	mg/l
3.	BOD _{5days} at 27°C	IS 3025, P-44, 1999 (Reaffirmed 2003)	BDL (DL 1)	mg/l
4.	Dissolved Oxygen	IS 3025, (Part -38) 1984	9.3	mg/l
5.	Oil & Grease	IS: 3025 Part 39 - 1991	<0.1	mg/l
6.	Total Coliform	IS 1622, 1981	Absent	MPN/100ml

NOTE: a) The results listed refer only to the tested samples & applicable parameters
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(Construction Period: 1st Quarter (January to March, 2017))

Vardan EnviroLab

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Test Certificate

Sample Number:	VEL/STCPL/AA/01	Report No.:	VEL/A/1703/001
Issued To:	M/s Shah Technical Consultant Private Limited in associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj.	Format No.:	5.10 F-01
	Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Party Reference No.:	NIL
		Reporting Date:	16/03/2017
		Receipt Date:	10/03/2017
Sample Description :	Ambient Air Quality Monitoring		

General Information:-

Client Representative	: Team Leader
Sample collected by (Name & Designation)	: Mr. Tarun Singh (Field Coordinator)
Type of Unit	: Construction Unit
Sampling Location	: DC Office Parking
Latitude	: 32° 12' 25.1" N
Longitude	: 76° 19' 22.5" E
Date of commencement of monitoring	: 06/03/2017
Date of end of monitoring	: 07/03/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Metereological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	27.6	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	68.6	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	15.9	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	5.1	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009

NOTE: a) The results listed refer only to the tested samples & applicable parameters
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 Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
 Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
 (ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: VEL/STCPL/AA/02
 Issued To: M/s Shah Technical Consultant Private Limited (in associated with Grass Root research and Consultancy IIPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj).
 Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Report No.: VEL/A/1703/002
 Format No.: 5.10 F-01
 Party Reference No.: NIL
 Reporting Date: 16/03/2017
 Receipt Date: 10/03/2017
 Sample Description: Ambient Air Quality Monitoring

General Information:-

Client Representative	: Team Leader
Sample collected by (Name & Designation)	: Mr. Taran Singh (Field Coordinator)
Type of Unit	: Construction Unit
Sampling Location	: Aghajnagar Mahadev Temple
Latitude	: 32° 12' 40.3" N
Longitude	: 76° 22' 20.7" E
Date of commencement of monitoring	: 07/03/2017
Date of end of monitoring	: 08/03/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	17.2	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	55.9	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	10.7	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.5	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009

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 (ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number:	VEL/STCPL/AA/03	Report No.:	VEL/A/1703/003
Issued To:	M/s Shah Technical Consultant Private Limited in associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading Infrastructure for tourism and dharamshala Mcleodganj.	Format No.:	5.10 P-01
	Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Party Reference No.:	NIL
		Reporting Date:	16/03/2017
		Receipt Date:	10/03/2017

Sample Description: Ambient Air Quality Monitoring

General Information:-

Client Representative	: Team Leader
Sample collected by (Name & Designation)	: Mr. Tarun Singh (Field Coordinator)
Type of Unit	: Construction Unit
Sampling Location	: Bhagsu Nag Temple
Latitude	: 32° 14' 39.5" N
Longitude	: 76° 20' 04.2" E
Date of commencement of monitoring	: 07/03/2017
Date of end of monitoring	: 08/03/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	20.8	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	49.2	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	11.9	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	5.2	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009

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Test Certificate

Sample Number:
 Issued To:

VEL/STCPL/AA/04

M/s Shah Technical Consultant Private Limited In
 associated with Grass Root research and Consultancy
 HPTDC/13/2 conserving prominent temple Precincts
 and upgrading Infrastructure for tourism and
 dharamshala Mcleodganj.
 Tourist Information Centre, Dhaliara, Tehsil:
 Dehra, District: Kangra

Report No.:

VEL/A/1703/004

Format No.:

5.10 F-01

Party Reference No.:

NIL

Reporting Date:

16/03/2017

Receipt Date:

10/03/2017

Sample Description:

Ambient Air Quality Monitoring

General Information:-

Client Representative

Sample collected by (Name & Designation)

Type of Unit

Sampling Location

Latitude

Longitude

Date of commencement of monitoring

Date of end of monitoring

Surrounding Activity

Sampling Duration

Instrument Used

Instrument Calibration Status

Meteorological condition

Sampling & Analysis Protocol

: Team Leader

: Mr. Tarun Singh (Field Coordinator)

: Construction Unit

: Fuwara Chowk

: 31° 52' 29.9" N

: 76° 19' 16.0" E

: 07/03/2017

: 08/03/2017

: Human, Vehicular and Other Activities

: 24Hrs

: RDS & FPS

: Calibrated

: Clear Sky

: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	28.5	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	65.3	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Refirmed-1998	18.2	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	6.8	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Branch Off: J-3, Subhash Marg, C-Scheme, Jalpur (Rajasthan) Tel: 0141-4026275

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Test Certificate

Sample Number:	VEL/STCPI/AN/01	Report No.:	VEL/AN/1703/001
Name & Address of Client:	M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	16/03/2017
		Receipt Date:	10/03/2017
Sample Description:	AMBIENT NOISE LEVEL MONITORING		

General Information:-

Client Representative	Team Leader
Sample collected by	Mr. Tarun Singh (Field Coordinator)
Sampling Location	DC Office Parking
Latitude	32° 12' 25.1" N
Longitude	76° 19' 22.5" E
Instrument Used	Sound Level Meter
Instrument Code	VEL/SLM/03
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	06/03/2017 to 07/03/2017
Surrounding Activity	Human, Vehicular & Other Activities
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	24 Hours
Parameter Required	As per work order

S. No.	Parameters -	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L _{max}	CPCB Guidelines/ IS 9989	71.6	60.6	dB(A)
2.	L _{eq}	CPCB Guidelines/ IS 9989	44.3	41.0	dB(A)
3.	L ₉₀	CPCB Guidelines/ IS 9989	55.20	45.90	dB(A)
4.	CPCB Limits for L _{eq} (Commercial Area)		65.00	55.00	dB(A)

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275

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Test Certificate

Sample Number: **VEL/ STCPL/AN/02** Report No.: **VEL/AN/1703/002**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 associated with Grass Root research and Consultancy Party Reference No.: **NIL**
HPTDC/13/2 conserving prominent temple Precincts Reporting Date: **16/03/2017**
 and upgrading infrastructure for tourism and Receipt Date: **10/03/2017**
dharamshala Mcleodganj.
Tourist Information Centre, Dhaliara, Tehsil: Dehra,
District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Client Representative	Team Leader
Sample collected by	Mr. Tarun Singh (Field Coordinator)
Sampling Location	Aghajnagar Mahadev Temple
Latitude	32° 12' 40.3" N
Longitude	76° 22' 20.7" E
Instrument Used	Sound Level Meter
Instrument Code	VEL/SLM/01
Instrument Calibration Status	Calibrated
Metereological condition during monitoring	Clear Sky
Date of Monitoring	07/03/2017 to 08/03/2017
Surrounding Activity	Human & Vehicular Activities
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	24 Hours
Parameter Required	As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1	L_{max}	CPCB Guidelines/ IS 9989	54.3	42.6	dB(A)
2	L_{min}	CPCB Guidelines/ IS 9989	40.8	35.9	dB(A)
3	L_{eq}	CPCB Guidelines/ IS 9989	42.60	36.40	dB(A)
4	CPCB Limits for L_{eq} (Sensitive Area)		50.00	40.00	dB(A)

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Test Certificate

Sample Number: VEL/STCPL/AN/03
 Name & Address of Client: M/s Shah Technical Consultant Private Limited in associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj.
 Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Sample Description: AMBIENT NOISE LEVEL MONITORING

Report No.: VEL/AN/1703/003
 Format No.: 5.10 F-01
 Party Reference No.: NIL
 Reporting Date: 16/03/2017
 Receipt Date: 10/03/2017

General Information:-

Client Representative:	Team Leader
Sample collected by	Mr. Tarun Singh (Field Coordinator)
Sampling Location	Bhagsu Nag Temple
Latitude	32° 14' 39.5" N
Longitude	76° 20' 04.2" E
Instrument Used	Sound Level Meter
Instrument Code	VEL/SLM/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	07/03/2017 to 08/03/2017
Surrounding Activity	Human and Vehicular Activities
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	24 Hours
Parameter Required	As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L _{eq}	CPCB Guidelines/ IS 9989	49.6	41.9	dB(A)
2.	L _{eq}	CPCB Guidelines/ IS 9989	38.8	33.5	dB(A)
3.	L _{eq}	CPCB Guidelines/ IS 9989	45.50	37.90	dB(A)
4.	CPCB Limits for L _{eq} (Sensitive Area)		50.00	40.00	dB(A)

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 (ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number: VEL/STCPL /AN/04
 Name & Address of Client: M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala (Meledgan), Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra
 Report No.: VEL/AN/1703/004
 Format No.: 5.10 F-01
 Party Reference No.: NIL
 Reporting Date: 16/03/2017
 Receipt Date: 10/03/2017

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Client Representative	Team Leader
Sample collected by	Mr. Taron Singh (Field Coordinator)
Sampling Location	Puwara Chowk
Latitude	31° 52' 29.9" N
Longitude	76° 19' 16.0" E
Instrument Used	Sound Level Meter
Instrument Code	VEL/SLM/03
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	07/03/2017 to 08/03/2017
Surrounding Activity	Human and Vehicular Activities
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	24 Hours
Parameter Required	As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	70.2	65.8	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	46.9	39.7	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	56.80	47.00	dB(A)
4.	CPCB Limits for L_{eq} (Commercial Area)	--	65.00	55.00	dB(A)

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Test Certificate

Sample Number:
Issued To:

VEL/ STCPL /W/001
 M/s Shah Technical Consultant Private Limited in
 associated with Grass Root research and Consultancy
 HPTDC/13/2 conserving prominent temple Precincts and
 upgrading infrastructure for tourism and dharamshala
 Mcleodganj,
 Tourist Information Centre, Dhaliara, Tehsil: Dehra,
 District: Kangra
 Surface Water
 Water course near Aghanjar Mahadev

Report No.: VEL/W/1703/001
 Format No.: 5.7 F-02(B)
 Party Reference No.: NIL
 Reporting Date: 16/03/2017
 Receipt Date: 10/03/2017

Sample Description:
Sampling Location:

Sampling Date: 06/03/2017
 Sampling Type: Grab
 Preservation: Refrigerated
 Sampling Quantity: 2.0 Ltr
 Parameter Required: As per Work Order

Sample Collected by:
(Name & Designation)
Client Representative:
Sampling & Analysis Protocol:

Mr. Rajesh yadav
 (Field Analyst)
 Team Leader
 IS-10500-2012, APHA 22nd Edition 2012

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	APHA 22 nd Edition, 4500-H ⁺ B	6.80	-
2.	Total Dissolved Solids	APHA 22 nd Edition, 2540 C	60.00	mg/l
3.	BOD ₅ (mg/l at 27°C)	IS 3025, P-44, 1999 (Reaffirmed 2003)	BDL (DL 1)	mg/l
4.	Dissolved Oxygen	IS 3025, (Part -38) 1984	11.9	mg/l
5.	Oil & Grease	IS: 3025 Part 39 - 1991	<0.1	mg/l
6.	Total Coliform	IS 1622, 1981	Absent	MPN/100ml

NOTE: a) The results listed refer only to the tested sample & applicable parameters
 b) Total liabilities of our lab will be restricted to the known amount only
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 Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
 Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
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Test Certificate

Sample Number: Issued To:	VEL/ STCPL /W/002 M/s Shah Technical Consultant Private Limited in associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Meleodgan). Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Report No.: Format No.: Party Reference No.: Reporting Date: Receipt Date:	VEL/W/1703/002 5.7 F-02(B) NIL 16/03/2017 10/03/2017
Sample Description: Sampling Location:	Surface Water Bhagsu nag temple	Sampling Date: Sampling Type: Preservation: Sampling Quantity: Parameter Required:	06/03/2017 Grab Refrigerated 2.0 Ltr As per Work Order
Sample Collected by: (Name & Designation) Client Representative: Sampling & Analysis Protocol	Mr. Rajesh yadav (Field Analyst) Team Leader IS-10500-2012, APHA 22 nd Edition 2012		


S. No.	Parameter	Test-Method	Result	Unit
1.	pH	APHA 22 nd Edition, 4500-H ⁺ B	6.65	-
2.	Total Suspended Solids	APHA 22 nd Edition, 2540 D	54.0	mg/l
3.	BOD _{5days} at 37°C	IS 3025, P-44, 1999 (Reaffirmed 2003)	BDL (DL 1)	mg/l
4.	Dissolved Oxygen	IS 3025, (Part -38) 1984	8.8	mg/l
5.	Oil & Grease	IS: 3025 Part 39 - 1991	<0.1	mg/l
6.	Total Coliform	IS 1622, 1981	Absent	MPN/100ml

NOTE: a) The results listed refer only to the tested samples & applicable parameters
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(Construction Period: 2nd Quarter (April to June, 2017))



Vardan EnviroLab

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 Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404
 (ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number: VEL/STCPL/AA/01
Issued To: M/s Shah Technical Consultant Private Limited
 In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj, Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra

Sample Description : Ambient Air Quality Monitoring

Report No.: VEL/A/1706/001
Format No.: 5.10 F-01
Party Reference No.: NIL
Reporting Date: 14/06/2017
Receipt Date : 07/06/2017

General Information:-

Client Representative

Sample collected by

Type of Unit

Sampling Location

Latitude

Longitude

Date of commencement of monitoring

Date of end of monitoring

Surrounding Activity

Sampling Duration

Instrument Used

Instrument Calibration Status

Meteorological condition


Sampling & Analysis Protocol


: Team Leader
 : Vardan EnviroLab Representative
 : Construction Unit
 : DC Office Parking
 : 32° 12' 25.1" N
 : 76° 19' 22.5" E
 : 03/06/2017
 : 04/06/2017
 : Human, Vehicular and Other Activities
 : 24 Hrs
 : RDS & FPS
 : Calibrated
 : Clear Sky
 : IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	25.8	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	69.1	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	15.0	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009





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Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Sector-57, Gurgaon - 122003 (Haryana) Tel: 0124-4291036

Laboratory: Samaspur, Opposite Amity International School, Sector-51, Gurgaon - 122001 (Haryana)

Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404

(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **VEL/STCPL/AA/02** Report No.: **VEL/A/1706/002**
 Issued To: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Party Reference No.: **NIL**
 Consultancy HPTDC/13/2 conserving prominent Reporting Date: **14/06/2017**
 temple Precincts and upgrading infrastructure for Receipt Date: **07/06/2017**
 tourism and dharamshala Mcleodganj.
Tourist Information Centre, Dhaliara, Tehsil:
Dehra, District: Kangra

Sample Description : **Ambient Air Quality Monitoring**

General Information:-

Client Representative	: Team Leader
Sample collected by	: Vardan EnviroLab Representative
Type of Unit	: Construction Unit
Sampling Location	: Aghajnagar Mahadev Temple
Latitude	: 32° 12' 40.3" N
Longitude	: 76° 22' 20.7" E
Date of commencement of monitoring	: 03/06/2017
Date of end of monitoring	: 04/06/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182& CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	16.3	µg/m ³	* 60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006&CPCB Guidelines	54.7	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	10.1	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	<5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999	<0.5	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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 Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404
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Test Certificate

Sample Number: **VEL/STCPL/AA/03** Report No.: **VEL/A/1706/003**
 Issued To: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj. Party Reference No.: **NIL**
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra Reporting Date: **14/06/2017**
 Receipt Date: **07/06/2017**

Sample Description: **Ambient Air Quality Monitoring**

General Information:-

Client Representative	: Team Leader
Sample collected by	: Vardan EnviroLab Representative
Type of Unit	: Construction Unit
Sampling Location	: Bhagsu Nag Temple
Latitude	: 32° 14' 39.5" N
Longitude	: 76° 20' 04.2" E
Date of commencement of monitoring	: 03/06/2017
Date of end of monitoring	: 04/06/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24 Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	20.3	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006&CPCB Guidelines	47.9	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	10.5	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	5.0	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009

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Test Certificate

Sample Number: **VEL/STCPL/AA/04** Report No.: **VEL/A/1706/004**
 Issued To: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj. Party Reference No.: **NIL**
Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra Reporting Date: **14/06/2017**
 Receipt Date: **07/06/2017**

Sample Description: Ambient Air Quality Monitoring

General Information:-

Client Representative	: Team Leader
Sample collected by	: Vardan EnviroLab Representative
Type of Unit	: Construction Unit
Sampling Location	: Fuwara Chowk
Latitude	: 31° 52' 29.9" N
Longitude	: 76° 19' 16.0" E
Date of commencement of monitoring	: 03/06/2017
Date of end of monitoring	: 04/06/2017
Surrounding Activity	: Human, Vehicular and Other Activities
Sampling Duration	: 24Hrs
Instrument Used	: RDS & FPS
Instrument Calibration Status	: Calibrated
Meteorological condition	: Clear Sky
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM _{2.5})	CPCB Guidelines (PM _{2.5} sampler-Gravimetric)	28.0	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006 & CPCB Guidelines	63.7	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	17.2	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	6.2	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	<0.50	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009

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Laboratory: Samaspur, Opposite Amity International School, Sector-51, Gurgaon - 122001 (Haryana)

Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404

(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **VEL/STCPL/AN/01** Report No.: **VEL/AN/1706/001**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Party Reference: **NIL**
 Consultancy HPTDC/13/2 conserving prominent No.:
 temple Precincts and upgrading infrastructure for Reporting Date: **14/06/2017**
 tourism and dharamshala Mcleodganj. Receipt Date: **07/06/2017**
Tourist Information Centre, Dhaliara, Tehsil:
Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Client Representative : Team Leader
 Sample collected by : Vardan EnviroLab Representative
 Sampling Location : DC Office Parking
 Latitude : 32° 12' 25.1" N
 Longitude : 76° 19' 22.5" E
 Instrument Used : Sound Level Meter
 Instrument Code : VEL/SLM/03
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/06/2017 to 04/06/2017
 Surrounding Activity : Human, Vehicular & Other Activities
 Sampling & Analysis Protocol : CPCB Guidelines & IS-9989
 Sampling Duration : 24 Hours
 Parameter Required : As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	71.2	60.0	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	44.0	41.3	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	55.40	45.82	dB(A)
4.	CPCB Limits for Leq (Commercial Area)	--	65.00	55.00	dB(A)

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Test Certificate

Sample Number: **VEL/STCPL/AN/02** Report No.: **VEL/AN/1706/002**
 Name & Address of Client: **M/s. Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Party Reference: **NIL**
 Consultancy HPTDC/13/2 conserving prominent No.:
 temple Precincts and upgrading infrastructure for Reporting Date: **14/06/2017**
 tourism and dharamshala Mcleodganj. Receipt Date: **07/06/2017**
Tourist Information Centre, Dhaliara, Tehsil:
Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Client Representative : Team Leader
 Sample collected by : Vardan EnviroLab Representative
 Sampling Location : Aghajnagar Mahadev Temple
 Latitude : 32° 12' 40.3" N
 Longitude : 76° 22' 20.7" E
 Instrument Used : Sound Level Meter
 Instrument Code : VEL/SLM/01
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/06/2017 to 04/06/2017
 Surrounding Activity : Human & Vehicular Activities
 Sampling & Analysis Protocol : CPCB Guidelines & IS-9989
 Sampling Duration : 24 Hours
 Parameter Required : As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	53.8	41.2	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	40.1	35.5	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	42.55	36.20	dB(A)
4.	CPCB Limits for L_{eq} (Sensitive Area)	--	50.00	40.00	dB(A)

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Laboratory: Samaspur, Opposite Amity International School, Sector-51, Gurgaon - 122001 (Haryana)

Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404

(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **VEL/STCPL/AN/03**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited**
 In associated with Grass Root research and
 Consultancy HPTDC/13/2 conserving prominent
 temple Precincts and upgrading infrastructure for
 tourism and dharamshala Mcleodganj.
Tourist Information Centre, Dhaliara, Tehsil:
Dehra, District: Kangra
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Report No.: **VEL/AN/1706/003**
 Format No.: **5.10 F-01**
 Party Reference: **NIL**
 No.:
 Reporting Date: **14/06/2017**
 Receipt Date: **07/06/2017**

General Information:-

Client Representative
 Sample collected by
 Sampling Location
 Latitude
 Longitude
 Instrument Used
 Instrument Code
 Instrument Calibration Status
 Meteorological condition during monitoring
 Date of Monitoring
 Surrounding Activity
 Sampling & Analysis Protocol
 Sampling Duration
 Parameter Required

Team Leader
 Vardan EnviroLab Representative
 Bhagsu Nag Temple
 32° 14' 39.5" N
 76° 20' 04.2" E
 Sound Level Meter
 VEL/SLM/02
 Calibrated
 Clear Sky
 03/06/2017 to 04/06/2017
 Human and Vehicular Activities
 CPCB Guidelines & IS-9989
 24 Hours
 As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	49.0	41.3	dB(A)
2.	L_{eq}	CPCB Guidelines/ IS 9989	38.2	32.1	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	45.38	37.74	dB(A)
4.	CPCB Limits for L_{eq} (Sensitive Area)	--	50.00	40.00	dB(A)

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 (ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number: **VEL/STCPL /AN/04** Report No.: **VEL/AN/1706/004**
 Name & Address of Client: **M/s Shah Technical Consultant Private Limited** Format No.: **5.10 F-01**
 In associated with Grass Root research and Party Reference: **NIL**
 Consultancy HPTDC/13/2 conserving prominent No.:
 temple Precincts and upgrading infrastructure for Reporting Date: **14/06/2017**
 tourism and dharamshala Mcleodganj. Receipt Date: **07/06/2017**
Tourist Information Centre, Dhaliara, Tehsil:
Dehra, District: Kangra

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Client Representative	: Team Leader
Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Fuwara Chowk
Latitude	: 31° 52' 29.9" N
Longitude	: 76° 19' 16.0" E
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/06/2017 to 04/06/2017
Surrounding Activity	: Human and Vehicular Activities
Sampling & Analysis Protocol	: CPCB Guidelines & IS-9989
Sampling Duration	: 24 Hours
Parameter Required	: As per work order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	69.7	64.3	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	46.0	39.1	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	56.74	46.84	dB(A)
4.	CPCB Limits for L_{eq} [Commercial Area]	--	65.00	55.00	dB(A)

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 (ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number:
Issued To:

VEL/ STCPL /W/001
M/s Shah Technical Consultant Private Limited
 In associated with Grass Root research and
 Consultancy HPTDC/13/2 conserving prominent
 temple Precincts and upgrading infrastructure for
 tourism and dharamshala Mcleodganj.
Tourist Information Centre, Dhallara, Tehsil:

Report No.: VEL/W/1706/001
 Format No.: 5,7 F-02(B)
 Party Reference No.: NIL
 Reporting Date: 14/06/2017
 Receipt Date: 07/06/2017

Sample Description:
Sampling Location:

Surface Water
Water course near Aghanjar Mahadev

Sampling Date: 04/06/2017
 Sampling Type: Grab
 Preservation: Refrigerated
 Sampling Quantity: 2.0 Ltr
 Parameter Required: As per Work Order

Sample Collected by:
Client Representative:
Sampling & Analysis
Protocol:

Vardan EnviroLab Representative
Team Leader
IS-10500-2012, APHA 22nd Edition 2012

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	APHA 22 nd Edition, 4500-H ⁺ B	7.12	-
2.	Total Dissolved Solids	APHA 22 nd Edition, 2540 C	62	mg/l
3.	BOD ₅ Days at 27°C	IS 3025,P-44,1999(Reaffirmed 2003)	BDL (DL 1)	mg/l
4.	Dissolved Oxygen	IS 3025,(Part-38)1984	10.2	mg/l
5.	Oil & Grease	IS: 3025 Part 39 - 1991	<0.1	mg/l
6.	Total Coliform	IS 1622,1981	Absent	MPN/100ml

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(ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited | HSPCB & RSPCB Approved)

Test Certificate

Sample Number:	VEL/ STCPL /W/002	Report No.:	VEL/W/1706/002
Issued To:	M/s Shah Technical Consultant Private Limited In associated with Grass Root research and Consultancy HPTDC/13/2 conserving prominent temple Precincts and upgrading infrastructure for tourism and dharamshala Mcleodganj. Tourist Information Centre, Dhaliara, Tehsil: Dehra, District: Kangra	Format No.:	5.7 F-02(B)
		Party Reference	NIL
		No.:	
		Reporting Date:	14/06/2017
		Receipt Date:	07/06/2017
Sample Description:	Surface Water	Sampling Date:	04/06/2017
Sampling Location:	Bhagsu nag temple	Sampling Type:	Grab
		Preservation:	Refrigerated
Sample Collected by:	Vardan EnviroLab Representative	Sampling Quantity:	2.0 Ltr
Client Representative:	Team Leader	Parameter	As per Work
Sampling & Analysis	IS-10500-2012, APHA 22 nd Edition 2012	Required:	Order
Protocol:			

S. No.	Parameter	Test-Method	Result	Unit
1.	pH	APHA 22 nd Edition, 4500-H ⁺ B	7.04	-
2.	Total Suspended Solids	APHA 22 nd Edition, 2540 D	53.88	mg/l
3.	BOD ₅ at 20°C	IS 3025, P-44, 1999 (Reaffirmed 2003)	BDL (DL 1)	mg/l
4.	Dissolved Oxygen	IS 3025, (Part -38) 1984	9.0	mg/l
5.	Oil & Grease	IS: 3025 Part 39 - 1991	<0.1	mg/l *
6.	Total Coliform	IS 1622, 1981	Absent	MPN/100ml

NOTE: a) The results listed refer only to the tested samples & applicable parameters
b) Total liabilities of our lab will be restricted to the invoice amount only
c) This sample will be destroyed after retention time unless otherwise specified
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Tel: 0124-6522261, 8588859161 | E-mail: lab@vardanenvironet.com | www.vardanenvironet.com



Annexure 46**PUBLIC CONSULTATION**

Project Name: Conserving Prominent Temple Precincts & Upgrading Urban Infrastructure for Tourism in Dharamshala & Mcleodganj

Package No- Package No. HPTDB/13/2

Date of Consultation: 21st June, 2017

Project Phase: During Construction

Consultation Done By: Mr. Abhay Srivastava (Safeguard Specialist, Environment, DSC), Mr. Jyoti Dhari Singh (Social Safeguard Expert DSC) and Dr. Basobi Sheel, (Social Safeguard Specialist, PMC)

Place: Near Bhagsu Temple Complex, Mcleodganj and Near M.C. park Dharamshala	
Participants: Identified AP, Tourist, Vendors/ hawkers	
Objective: The objective of consultation was to obtain shopkeepers, pilgrims, tourists views on proposed work and to seek their views in strengthening the safeguard while construction to maximize the project benefits.	
1.	<p>Issues Discussed:</p> <p>Following issues pertaining to Social/Environmental safeguards and existing direct and indirect impacts have been discussed for the improvement options.</p> <ul style="list-style-type: none"> • Project Components, R&R Provision under this project, Health and Safety issues related to labours. • Records maintaining at site as per ADB Guidelines. • Impact of work on the tourists, pilgrims etc.
2	<p>Response:</p> <ul style="list-style-type: none"> • AP was informed that appropriate measures will be taken during construction work to minimize impacts. (Including scheduling of activities and reducing construction activities during the rush hour). • AP was also informed about the necessary arrangements like temporary accommodation during construction of cafeteria and provision of permanent shops for them is being considered so that there is no negative impact on their livelihood. • The tourists have appreciated the efforts of Tourism Dept for development/ upgradation of existing infrastructure. • The tourists have suggested that sufficient number of toilet and drinking water facilities, changing rooms should be at site near Bhagsu Complex • The tourists at Bhagsu Temple were happy to know that cafeteria, toilet block, drinking water facilities etc. will be constructed at this site. • At M.C park few vendors/ hawkers were not aware about the proposed works. • After knowing the detail of works, they expect that this development will attract more people & this will increase their daily income.

PHOTOS



Consultation with Tourist, near Bhagsu temple Dharamshala

Consultation with DP near Bhagsu temple Dharamshala

Attendance Sheet

Name of Sub-project Dharmashala

Venue Municipal Park, Bhagsu Temple


Date 21-06-2017

SN	NAME	DESIGNATION	CONTACT
1.	सुरवी		सुरवी
2.	श्रीना		ईना
3.	काई		काई
4.	रेखा		रेखा
5.	रानी		रानी
6.	राजेश 8815126831		Rajesh Kumar
7.	Nikhil	Junior Engineer	98052-82179
	गोपालसुनाम मंदिर		
	पप्पू कुमार बि०		Pappu Kumar
	क्रिस्टीना		

94182
21670

Annexure 47

Status of Air Quality /Water Quality/Noise level at Markandeya site (Baseline data)



ISO 9001 : 2008

Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

AMBIENT AIR QUALITY MONITORING REPORT
 Test Report No. : ITL/ED/06
 Dispatch Date : 05/06/2017

1.	Laboratory Sample No.	ITL/05-17/43/06
2.	Issued to	M/S MCC POWER PROJECTS PVT. LTD. BALAJI VIHAR, KANGRA -176001 (H.P.)
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Ambient air quality monitoring
5.	Date of sample collection	22/05/2017
6.	Date and time of sample receipt in lab.	23/05/2017 at 10.00 pm
7.	Location of sample collection	Near Building (Markand Site)
Date of receipt of Job		24/05/2017
Date of completion of Job		05/06/2017


Observations

SN	Particulars	PM ₁₀	PM _{2.5}
1.	Actual duration of sampling (minutes)	1440	1440
2.	Flow rate, (m ³ /min for PM ₁₀ & m ³ /h PM _{2.5}), average	1.38	1.0
3.	Total volume of air sampled (m ³)	1987.2	24


Test Results

SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed
1.	Particulate Matter, (size <10 µm), or PM ₁₀ , µg/m ³	75.53	100	IS: 5182 (Part-23) 2006, (RA2009)
2.	Particulate Matter, (size <2.5 µm), or PM _{2.5} , µg/m ³	46.32	60	IS: 5182 (Part-23) 2006, (RA2009)
3.	Sulphur Dioxide, (SO ₂), µg/m ³	09.16	80	IS: 5182 (Part 2) : 2001, (RA 2012)
4.	Nitrogen Dioxide, (NO ₂), µg/m ³	13.22	80	IS: 5182 (Part 6) :2006, (RA 2012)
5.	Carbon Monoxide, (CO), mg/m ³	BDL	2.0	IS: 5182 (Part 10) 1999, (RA 2003)

*NAAQS: National ambient air quality standards, BDL – Below Detection Limits



ANALYST



AUTHORIZED SIGNATORY
(QM & TM)

NOTE: - 1. Total liability of our laboratory is limited to the invoiced amount.
 2. Report is valid for self-monitoring purposes of the industry only as per environmental protection act 1986.
 3. Sample will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
 4. This report is not to be produced wholly or in part as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

Ghalori Gate, Patiala (Pb.) Ph. 0175-2320175, 2322224, (M) 99155-84242
 Email : itlchpatiala@gmail.com Website : www.itlch.com



Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

NOISE LEVEL MONITORING ANALYSIS REPORT

Test Report No. : ITL/ED/12
Dispatch Date : 05/06/2017

1.	Laboratory Sample No.	ITL/05-17/43/16
2.	Issued to	M/S MCC POWER PROJECTS PVT. LTD. BALAJI VIHAR, KANGRA -176001 (H.P.)
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Noise Level
5.	Date of sample collection	22/05/2017 To 23/05/2017

Test Results

Location Code	Markand Site
Monitoring Date	22/05/2017
Time	Noise Level (dBA)
	Hrly. Leq
9:00	58.4
10:00	58.7
11:00	59.2
12:00	59.6
13:00	60.9
14:00	60.5
15:00	60.0
16:00	59.4
17:00	58.6
Maximum	58.4
Minimum	60.9
Average/Results	59.65
Regulatory Standard	75

dB (A) Leq: denotes the time weighted average of the level of sound in decibels on scale (A) which is relatable to human hearing.

**Leq: It is energy mean of the noise level over the specified period.

Test Method IS: 9989:1981 R-2002

Note: Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 6.00 a.m.

ANALYST

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Industrial Testing Laboratory & Consulting House

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Analysis Report

SURFACE WATER SAMPLE ANALYSIS REPORT

Test Report No. : ITL/ED/09

Dispatch Date : 05/06/2017

1.	Laboratory Sample No.	ITL/05-17/43/09
2.	Issued To	M/S MCC POWER PROJECTS PVT. LTD. BALAJI VIHAR, KANGRA -176001 (H.P.)
3.	Name of Sample Collecting Officer	By Lab Representative
4.	Type of Sample	Project Site water sample from Bath Place (Markand Site)
5.	Date & Time of Sample Collection	22/05/2017
6.	Date & Time of Sample Receipt in Lab.	23/05/2017 at 10.00 pm
7.	Date of receipt of job	24/05/2017
	Date of completion of job	05/06/2017

Test Results

SN	Parameters	Result	Test method followed
1.	pH	8.61	IS: 3025 (Part-11) 1983(RA 2012)
2.	TSS , mg/l	0.1	IS: 3025 (Part-17) 1984(RA 2012)
3.	TDS ,mg/l	208	IS: 3025 (Part-16) 1984 (RA2012)
4.	Total Hardness (as CaCO ₃),mg/l	360	IS:3025 (Part 21) 2009, (RA 2009)
5.	Oil and Grease ,mg/l	N.D.	IS: 3025 (Part-39) 1991(RA 2009)
6.	Total Coli form, MPN/100 ml	<2	IS:5401(Part 2) 2002

Regulatory standards source: The Environmental (Protection) Rules, 1986 [schedule- VI] General standards for discharge of environmental pollutants.

Part-A: Effluents

*N.D. – Not Detected

ANALYST

AUTHORIZED SIGNATORY
(QM & TM)

NOTE: - 1. Total liability of our laboratory is limited to the invoiced amount.

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3. Sample will be destroyed after one month from the date of issue of test certificate unless otherwise specified.

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

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Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

SURFACE WATER SAMPLE ANALYSIS REPORT

Test Report No. : ITL/ED/10
Dispatch Date : 05/06/2017

1.	Laboratory Sample No.	ITL/05-17/43/10
2.	Issued To	M/S MCC POWER PROJECTS PVT. LTD. BALAJI VIHAR, KANGRA -176001 (H.P.)
3.	Name of Sample Collecting Officer	By Lab Representative
4.	Type of Sample	Project Site water sample from Charm Rog place (Markand Site)
5.	Date & Time of Sample Collection	22/05/2017
6.	Date & Time of Sample Receipt in Lab.	23/05/2017 at 10.00 pm
7.	Date of receipt of job	24/05/2017
	Date of completion of job	05/06/2017

Test Results

SN	Parameters	Result	Test method followed
1.	pH	8.67	IS: 3025 (Part-11) 1983(RA 2012)
2.	TSS, mg/l	0.1	IS: 3025 (Part-17) 1984(RA 2012)
3.	TDS, mg/l	230	IS: 3025 (Part-16) 1984 (RA2012)
4.	Total Hardness (as CaCO ₃), mg/l	365	IS:3025 (Part 21) 2009, (RA 2009)
5.	Oil and Grease, mg/l	N.D.	IS: 3025 (Part-39) 1991(RA 2009)
6.	Total Coli form, MPN/100 ml	<2	IS:5401(Part 2) 2002

Regulatory standards source: The Environmental (Protection) Rules, 1986 [schedule- VI] General standards for discharge of environmental pollutants.

Part-A: Effluents

*N.D. - Not Detected

ANALYST

AUTHORIZED SIGNATORY
(QM & TM)

NOTE :- 1. Total liability of our laboratory is limited to the invoiced amount.

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Annexure 48

PUBLIC CONSULTATION



Project Name: Rejuvenation of the Markandeya Temple Precincts and Provisions of Visitors Facilities, Bilaspur

Package No- Package HPTDB/11/1

Date of Consultation: 17th January, 2017

Project Phase: During Construction

Consultation Done By: Dr. Seema Srivastava (Safeguard Specialist, Environment, PMC) & Dr. Basobi Sheel (Safeguard Specialist, Social, PMC)

Place: Temple premises	
Participants: Individual shopkeepers of the temple premises/pilgrims. Satisfaction letter with signatures are attached as Appendix-1	
Objective: The objective of consultation was to obtain shopkeepers views on shifting and to seek their views in strengthening the safeguard while construction to maximize the project benefits.	
1.	<p>Issues Discussed:</p> <p>Following issues pertaining to Social/Environmental safeguards and existing direct and indirect impacts have been discussed for the improvement options.</p> <ul style="list-style-type: none"> • Shopkeeper's satisfaction level on shifting process • Impact on the local environment due to initiated construction activities of the project. • Scope of employment generation for the local people during construction phase. • Construction activity whether causing any type of hazard or not? • Any loss of land or property due to construction activity? • Any damage to historical or cultural monuments? • Problems faced by the local people in their daily activities due to improper amenities?
2	<p>Shopkeepers Response:</p> <ul style="list-style-type: none"> • Shopkeepers are satisfied with shifting mechanism • Food Vendors sale increased due to staff/labours • Pilgrims are happy in amenities development. • Local people are doing their routine cultural activities in premises without interruption. • There is negligible impact on environment during construction and being mitigated by suitable measures • There is no tree cutting, no cultural loss.
3	<p>Recommendations & Suggestions:</p> <ul style="list-style-type: none"> • Time bound completion shall be done.
PHOTOGRAPHS	
<div style="display: flex; justify-content: space-around;">   </div>	



Appendix-1

"जय ऋषि मारकण्डेय"

टीका नं. 890187

श्री मारकण्डेय प्रबन्धक एवम् विकास समिति

मारकण्ड, जिला विलासपुर (हि0प्र0)

संख्या: _____ दिनांक 17-10-17

हम कर्मी पुन्नाहवार जो अग्रेल 2015 मे निर्माण के कारवा नई जमक जमीन
होने से तब इस लक्ष्य के कारवा है विवेक विवेक मुद्रास्तेपल प्रकृत नई थी

1. लक्ष्य/पुन्नाहवार की तबकिली के लिए समिति ने एक मजदूर
बिरासा भेज दिया था।
2. समिति समिति की लक्ष्य के पुन्नाहवार की तबकिली के लक्ष्य के लिए
3. पुन्नाहवार के संचालन की तबकिली की तबकिली के लिए एक मजदूर
भारता इन्फो कम्पनी के लक्ष्य के लिए भेजा था।
4. हमें समिति समिति की लक्ष्य के लिए एक मजदूर भेजा था।
हमारे पुन्नाहवार के निर्माण के लिए एक मजदूर भेजा था।
परिचालन के लिए एक मजदूर भेजा था।
5. इस निर्माण के लिए एक मजदूर भेजा था।
परिचालन के लिए एक मजदूर भेजा था।
6. निर्माण कार्य के लक्ष्य के लिए एक मजदूर भेजा था।
परिचालन के लिए एक मजदूर भेजा था।

सभी पुन्नाहवार के लिए एक मजदूर भेजा था।

क्र.सं.	नाम	फोन नं.
1.	पुन्नाहवार	98255 37586
2.	लक्ष्य/पुन्नाहवार	98255 37586
3.	लक्ष्य/पुन्नाहवार	98255 37586
4.	लक्ष्य/पुन्नाहवार	98255 37586
5.	लक्ष्य/पुन्नाहवार	98255 37586
6.	लक्ष्य/पुन्नाहवार	98255 37586
7.	लक्ष्य/पुन्नाहवार	98255 37586
8.	लक्ष्य/पुन्नाहवार	98255 37586
9.	लक्ष्य/पुन्नाहवार	98255 37586

"जय ऋषि मारकण्डेय"

टीका नं. 890187

श्री मारकण्डेय प्रबन्धक एवम् विकास समिति

मारकण्ड, जिला विलासपुर (हि0प्र0)


संख्या: _____ दिनांक 17-10-17

10. लक्ष्य/पुन्नाहवार — 98255 37586


11. लक्ष्य/पुन्नाहवार — 98255 37586

Annexure 49

Status of Air Quality /Water Quality/Noise level at Naldehra site (Baseline data)



Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Sector-57, Gurgaon - 122003 (Haryana) Tel: 0124-4291036
 Laboratory: Samaspur, Opposite Amity International School, Sector-51, Gurgaon - 122001 (Haryana)
 Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404
 (ISO 9001 | ISO 14001 | OHSAS 18001 | MoEF & CC Recognized | NABL Accredited |  RSPCB Approved)

Test Report


Sample Number:	VEL/ST/A/ 01	Report No.:	VEL/A/1706/001
Issued To:	M/s Shah Technical Construction (P) Ltd. (In Association with Grassroot Research and Consultancy) Tourist Information Centre, Teh- Dehra, Distt- Kangra.	Format No.:	5.10 F-01
Name & Address of Party:	Eco Tourism Park at Naldehra Shimla (HP)-(Package No.-HPTDB/16/4).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	23/06/2017
		End Date of Analysis:	21/06/2017
		Start Date of Analysis:	17/06/2017
		Receipt Date:	17/06/2017


General Information:- Sample collected by Sampling Location Instrument Used Instrument Code Instrument Calibration Status Meteorological condition during monitoring Date of Monitoring Time of Monitoring Ambient Temperature (°C) Surrounding Activity Scope of Monitoring Control measure if Any Sampling & Analysis Protocol Parameter Required	: Vardan Enviro Lab Team : At Park : RDS & FPS : VEL/RDS/02 & VEL/FPS/02 : Calibrated : Clear Sky : 15/06/2017 to 16/06/2017 : 10:00 AM to 10:00 AM : Min. 25.0, Max. 37.0 : Human, Vehicular & Construction Activities : Regulatory Requirement : No : IS-5182 : PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂
--	---

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	PM _{2.5} sampler (Lab. SOP*)	51.25	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	91.04	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 1975 Reaffirmed-1998	24.32	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	9.32	µg/m ³	80

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 18.11.2009
 *As per Laboratory Standard Operating Procedure.


MR. MOHAMMAD ANAS
 M.Sc. Env. Science



NOTE: a) The results listed refer only to the tested samples & applicable parameters
 b) Total liabilities of our lab will be restricted to the invoice amount only
 c) The sample will be destroyed after retention time unless otherwise specified
 d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

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Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Sector-57, Gurgaon - 122003 (Haryana) Tel: 0124-4291036
 Laboratory: Samaspur, Opposite Amity International School, Sector-51, Gurgaon - 122001 (Haryana)
 Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404
 (ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited| RSPCB Approved)

Test Report

Sample Number:	VEL/ST/N/ 01	Report No:	VEL/A/1706/001
Issued To:	M/s Shah Technical Construction (P) Ltd. (In Association with Grassroot Research and Consultancy) Tourist Information Centre, Teh- Dehra, Distt- Kangra.	Format No.:	5.10 F-01
Name & Address of Party:	Eco Tourism Park at Naldehra Shimla (HP)-(Package No.-HPTDB/16/4).	Party Reference No.:	NIL
		Reporting Date:	23/06/2017
		Receipt Date:	17/06/2017

Sample Description : AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	Vardan Enviro Lab Team
Sampling Location	At Park
Instrument Used	Sound Level Meter
Instrument Code	VEL/S/SLM/03
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	15/06/2017 to 16/06/2017
Time of Monitoring	06:00 AM to 06:00 AM
Ambient Temperature (°C)	Min.27.0, Max. 37.0
Surrounding Activity	Human, Vehicular & Construction Activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	No any
Sampling & Analysis Protocol	CPCB Guidelines & IS-9989
Sampling Duration	16 Hours
Parameter Required	As per Work Order

S. No.	Parameters	Protocol	Test Result dB	Unit
			Day Time	
			(10:00 am to 6:00 pm)	
1.	L_{eq}	CPCB Guidelines/ IS 9989	68.2	dB(A)
2.	L_{eq}	CPCB Guidelines/ IS 9989	50.1	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	64.27	dB(A)
4.	CPCB Limits in dB(A) Leq [Industrial Area]	-	75.00	dB(A)

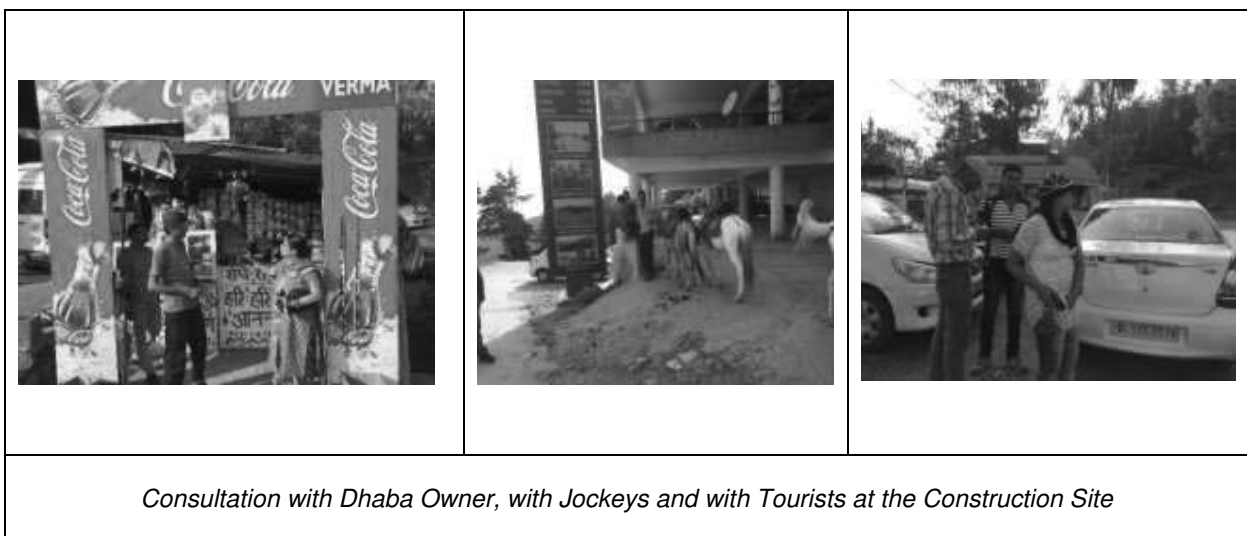
Mr. MOHAMMAD ANAS
M.Sc. Env. Science

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Annexure 50**Public Consultation****Project Name:** Eco- tourism Park at Naldehra, HP**Package No-** Package HPTDB/16/4**Date of Consultation:** 24th May, 2017**Project Phase:** During Construction**Consultation Done By:** Dr. Seema Srivastava (Safeguard Specialist, Environment, PMC), Dr. Basobi Sheel (Safeguard Specialist, Social, PMC) and Ms. Priyanka Khanghta (Safeguard Specialist Social & Environment, PMU)

Place: Naldehra	
Participants: Ms. Dharmila Hannot (Chairperson, Zila Parishad), Ms. Anita (ZP Member), Mr Garg, (Panchayat Pradhan), Ms Satya Devi (Ward Member), Ms. Uma (Ward Member), Ms. Shakuntala Devi, (Ward member), Mr. Rajesh and Ms. Tara Dutt Sharma.	
1.	Issues Discussed: <ul style="list-style-type: none"> Information/ awareness on the scope of work at Naldehra. Provisions at the site.
2	Response: <ul style="list-style-type: none"> Initially Panchayat members were not involved in any discussion regarding the development work. Provision of toilet is much needed in the area. The place has many tourists coming & the facility of toilet is lacking. The construction work that is coming up is appreciated, but then there should be proper signages (safety). Passage where horse riding is done is to be cleaned & maintained well at all time. Toilet facilities have to be improved, by providing more toilet complexes with an attendant to maintain it.
3	Outcome/ Remarks: <ul style="list-style-type: none"> Scope of work was communicated. They were conveyed that safeguard team is here to discuss issues with them. Informed that provision of toilet facilities is there in the scope of work.

Photos

ATTENDANCE SHEET

Participation List, Nalanda 24/5/17

1.	मि. [Name]	9625286008
2.	सि. [Name]	
3.	मि. [Name]	
4.	मि. [Name]	98175
5.	मि. [Name]	84988
6.	मि. [Name]	
7.	मि. [Name]	
8.	मि. [Name]	
9.	मि. [Name]	
10.	मि. [Name]	
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Annexure 51**Public Consultation**

Project Name: Restoration and beautification of Ancient temples and Surrounding areas at Rampur Bushair, Shimla

Package No- Package No. HPTDB/16/5

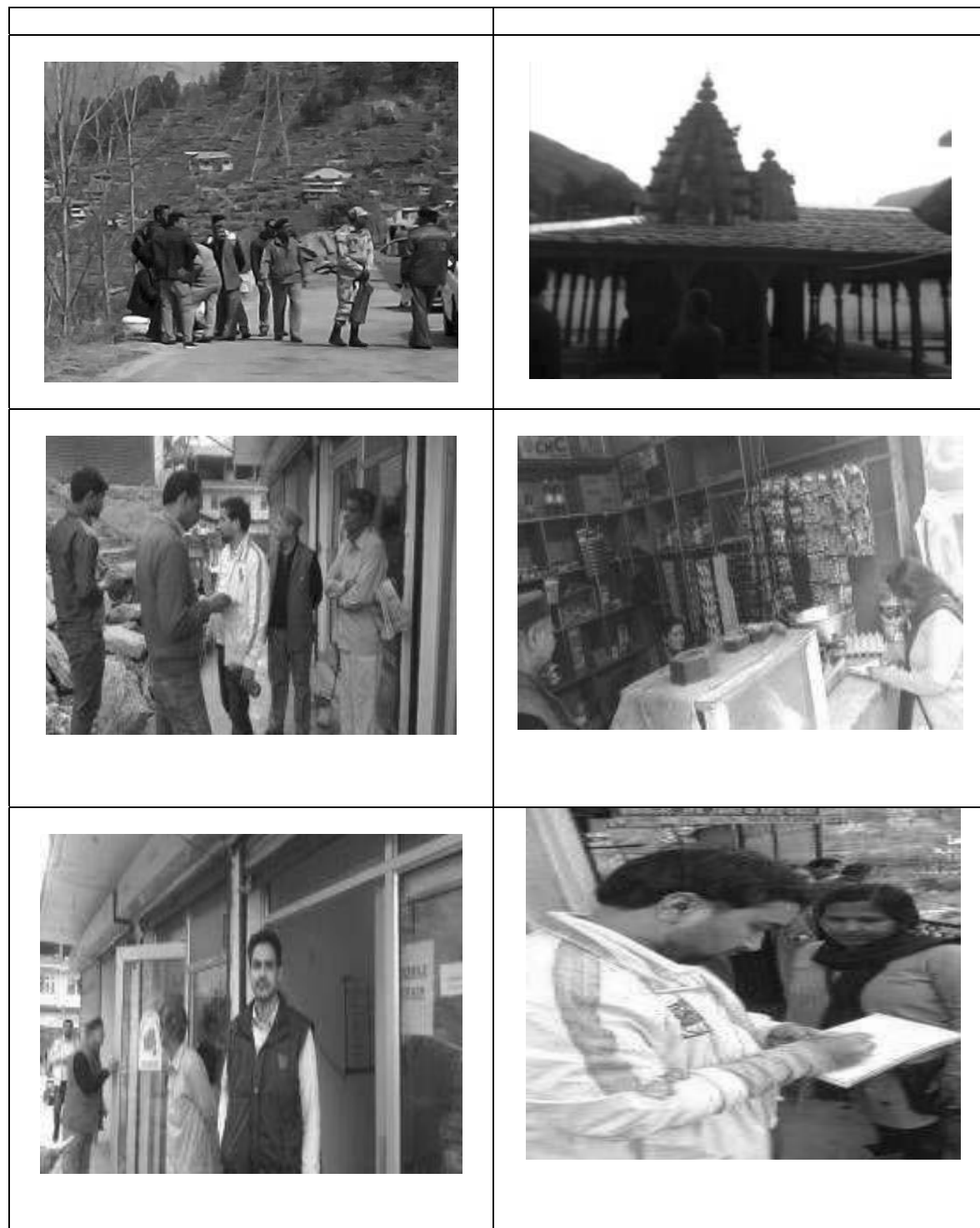
Date of Consultation: 22nd & 23rd March, 2017

Project Phase: During Construction

Consultation Done By: Dr.SeemaSrivastava (Safeguard Specialist, Environment, PMC) &Mr.AbhaySrivastava (Safeguard Specialist, Environment, DSC)

Place: Rampur Parking Area, PanchayatSarhan&Temple premises	
Participants: Individual shopkeepers nearby the Rampur Parking, temple priests/pilgrims.Attendance letter with signatures are attached as Appendix-1	
Objective: The objective of consultation was to obtain shopkeepers, priests, pilgrims views on proposed work and to seek their views in strengthening the safeguard while construction to maximize the project benefits.	
1.	Issues Discussed: Following issues pertaining to Social/Environmental safeguards andexisting direct and indirect impacts have been discussed for the improvement options. <ul style="list-style-type: none"> • Shopkeeper's satisfaction level on construction work at Rampur Parking • Priests of temples and Panchayat, Sarhansatisfaction level on temple works and Sarhanparking works • Impact on the local environment due to initiated construction activities of the project. • Scope of employment generation for the local people during construction phase. • Construction activity whether causing any type of hazard or not? • Any loss of land or property due to construction activity? • Any damage to historical or cultural monuments? • Problems faced by the local people in their daily activities due to improper work?
2	Response: <ul style="list-style-type: none"> • Shopkeepers are satisfied with construction work at Rampur parking • Priests are happy with proposed temple works. Panchayat, Sarhan is also satisfied but need community acceptance during their meetings as nearby proposed site there is a cremation area and is also being used for waste disposal. • Pilgrims are happy in amenities development. • There is negligible impact on environment during construction and being mitigated by suitable measures • There is no tree cutting, no cultural loss.
3	Recommendations & Suggestions: <ul style="list-style-type: none"> • Local people shall be employed.

PHOTOGRAPHS



Appendix-1

Attendance

- Rampur Parking Consultative
22.3.17
- ① दिमालम डाला.
इन्डिया मासिन् रामपुर बुडौडर
जिला शिमला (H.P.)
क्र० इन्डिया सिन् - 0418393096
- ② Surrender Communication
Surrender - 98651-73769
- ③ Mobile No. 8001 80001
98174-10004
A.K.
- ④ डीएल मस्केट (अरुण) 8629858912

- Meeting with GP, Sarla.
- 1- Greeta Devi Sharma - 9736864261
उप-प्रधान
- 2- Ishwar Singh. Ward Panch. member Sharma
- 3- Panna member - Sharma

दत्तलोकस्वामीजी मन्दिर दलबगल No.
Date 22.3.17

विश्व राम शर्मा 1. 8 P.O दलबगल
डो० रामपुर बुडौडर जिला शिमला
H.P.
Pin No 172001
94593-10065

नरसिम्हा मन्दिर
रजिष्ठा शर्मा
श्री-मुरीद मन्दिर रामपुर बुडौडर
पिन 363, 14499.

Annexure 52**Public Consultation**

Project Name: Restoration & Improvement of Chamunda, Bajreshwari Temple, Precincts & Cultural Center at Nagrota Bagwan

Package No- HPTDB/13/4

Date of Consultation: 20th and 21st June, 2017

Project Phase: During Construction

Consultation Done By: Mr. Abhay Srivastava, Social Safeguard Specialist, DSC and Mr. Jyoti Dhari Singh, Social Safeguard Specialist, DSC

Place: Mata Ka Bagh, Chakra Kund and Nagrota Bhagwan.	
Participants: Project Contractor, labors and owner of Chakrakund.	
1.	Issues Discussed: <ul style="list-style-type: none"> • Necessity of the project and sub-project components. • Health and Safety Issues. • Any hindrances this quarter. • Documentations / record preparation at the site. • Work progress • Any positive/ negative impact due to the undergoing works. • Safety Issues • Waste management at site. • Provisions at site.
2	Response: <ul style="list-style-type: none"> • They are happy the way work is going on. • There is no negative impact or any problem issue due to the construction.
3	Outcome/ Remarks: <ul style="list-style-type: none"> • Safety engineer should be engaged at site immediately for sensitizing the workers for proper use of PPEs. • Proper barricading required to avoid any inconveniences to the tourist and others coming to the kund (pond). • Contractors have to keep extra PPEs at the site. • Maintain all record documents such as, Wage Register, Attendance Register Hindrance Register, etc. properly.

PHOTOS

		
<i>Consultation with Contractor at Mata Ka Baag</i>	<i>Consultation with nearby shopkeepers, Mata Ka Baag</i>	



Consultation with nearby Residents

ATTENDANCE SHEET

Nagada Bazar		Consultations and Orientation with workers
Date - 21.06.2017		
1.	Vijay Dhimar	
2	May Kumar	
3	Subilam	
4	महेन्द्रराय	
5	Rondan Kumar	
6	DiPOK Ravi	
7	सोनादा कुमार	
8	परमेश्वर राव	
जोबहर सिंह		
अजय कुमार		
अविश कुमार		
प्राणी कुमार		
निमित्तमेश		

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