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HABIB BANK

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INVITATION FOR BIDS

DETAILED DESIGN FOR
WIDENING AND IMPROVEMENT
OF PRIORITY SECTIONS OF N-5
(Package - 1, 2, 3, 4, 5, 6 & 7)

National Engineering Services Pakistan (Pvt.) Limited (NESPAK), invites sealed bids (Technical and financial in separate sealed envelopes for each package, separately) from drilling Contractors/Companies, registered with Income Tax and Sales Tax Departments and who are on Active Taxpayers List of Federal Board of Revenue and Provincial Revenue Authority having valid PEC registration in relevant category, for carrying out the geotechnical investigations for the subject project.

Bidding documents (i.e. Bid Invitation Letter, BOQs & Qualification Criteria) can be downloaded from **NESPAK** (www.nespak.com.pk) and **PPRA** (www.ppra.org.pk) website or can be obtained on submission of a written application from the address mentioned below.

The bidders shall submit a bid security amounting to Rs. 100,000/- (Rupees one hundred thousand) (for each package, separately) at the time of submission of bids in the form of pay order or bank draft in favor of M/s NESPAK.

Companies capable of carrying out subject work are requested to furnish complete information in accordance with the requirement of bidding document. Sealed bids (inclusive of all taxes) prepared in accordance with the instructions in the bidding documents, must be submitted on or before **October 25, 2024** up to **1100 Hours** at the address mentioned below.

Technical bids would be opened on the same day at 1130 Hours after their receipt in the presence of those bidders who wish to be present. Financial bids would be opened after evaluation of technical bids, at time, date and venue announced and communicated to the technically responsive bidders in advance. NESPAK reserves the right to accept or reject any/all offers according to provision of PPRA Rules.

General Manager/Head

Geotechnical & Geoenvironmental Engineering Division

NESPAK House, 1-C, Block-N,

Model Town Extension, Lahore Pakistan – 54700

Tel: +92-42-99090000 (Ext. 300 & 310)

Fax: +92-42-99231950

E-mail: geotech@nespak.com.pk

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED

NESPAK HOUSE: 1-C, Block-N, Model Town Extension, Lahore - 54700, Pakistan



Ref: SA-586/024/KY/01/0464

Date: October 07, 2024

DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5

(Package - 1, 2, 3, 4, 5, 6 & 7)

Invitation of Bids for Geotechnical Investigations (Field and Laboratory Works)

Dear Sir,

Sealed bids (Technical and Financial in separate sealed envelopes) are invited in accordance with the attached BOQs (for seven packages i.e. Package-1, Package-2, Package-3, Package-4, Package-5, Package-6 & Package-7, separately) and qualification criteria from drilling Contractors / companies for carrying out the geotechnical investigations for the subject project.

The companies capable of carrying out subject work are requested to provide their Company's Profile and the following documents along with their sealed bids:

- 1. PEC Registration Certificate
- 2. FBR & PRA Registration Certificates
- 3. List of Similar Projects completed during last three years
- 4. Financial Capability
- 5. Equipment Capability
- 6. Personnel Capability
- 7. Litigation History
- 8. HSE Policies

The work comprises; execution of boreholes up to 40 m depth below natural surface level (NSL) by using straight rotary drilling / percussion boring method, core drilling in bedrock, excavation of testpits, performance of SPTs in boreholes, performance of field density tests in testpits, collection of disturbed/undisturbed soil samples, collection of rock core samples, collection of water samples and laboratory testing of selected soil/rock/water samples. The field and laboratory work shall have to be completed according to the following time schedule:

Sr No.	Package Number	Minimum No. of Straight Rotary Drilling Rigs/ Percussion Sets Required	Time for Completion of Field Investigations	ompletion of Field estigations Time for Completion Laboratory Testing	
1	Package - 1	02	24 Days	20 Days	44 Days
2	Package - 2	02	33 Days	21 Days	54 Days
3	Package - 3	02	27 Days	20 Days	47 Days
4	Package - 4	02	36 Days	21 Days	57 Days
5	Package - 5	02	26 Days	20 Days	46 Days
6	Package - 6	02	39 Days	21 Days	60 Days
7	Package - 7	01	30 Days	20 Days	50 Days

Your bid shall be valid for a time period of ninety (90) days after the bid opening. If one Contractor happens to be the lowest in more than one packages, than he may be awarded one or more packages (but not more than three packages), depending on his capability to undertake such large work with tight time schedule. The work shall be executed under the instructions and full-time supervision of NESPAK

Telephone: +92-42-99090000

Website: www.nespak.com.pk

Fax: +92-42-99231950

P.O.Box: 1351, Lahore, Pakistan



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engineers/geologists and the successful bidder shall mobilize to the site on three (03) days' notice after issuance of Letter of Award/Acceptance.

The coordinates and ground elevations of all the boreholes and testpits by total station / differential GPS shall have to be provided to NESPAK before completion of investigation at site by the Contractor.

The approved laboratory, where testing is to be carried out, shall be pursued by the successful bidder for timely completion of the assigned laboratory testing. The successful bidder shall be responsible for providing the factual geotechnical investigation report (including borehole and testpit logs, summary of samples recovered, summary of laboratory test results and detailed laboratory test result sheets) to NESPAK, within the contract period. A premium of up to 25 % will be admissible on the official rates of the laboratory, selected for testing of soil / rock / water samples. This premium has been allowed as compensation to the Contractor for making advance payment to the laboratory and later following-up for obtaining test results in time. The name of the laboratory should be provided on page 2 of 2 (Annexure-1).

The bidders shall submit a bid security amounting to Rs. 100,000/- (Rupees one hundred thousand) (for each package, separately) at the time of submission of bids in the form of pay order or bank draft in favor of M/s NESPAK.

Your most competitive sealed bids (inclusive of all taxes) in accordance with the BOQs and qualification criteria, should reach the office of the undersigned by 1100 hours on or before October 25, 2024. Technical bids would be opened on the same day at 1130 hours after their receipt in the presence of those bidders who wish to be present.

Financial bids would be opened after evaluation of Technical bids, at a time, date and venue announced and communicated to the technically responsive bidders in advance. However the final decision to accept/reject any or all the bids as per PPRA rules solely lies with the undersigned. The entire work shall be carried out in accordance with the requirements of the General Bidding Documents for Geotechnical Investigations available at NESPAK website (www.nespak.com.pk).

for National Engineering Services Pakistan (Pvt.) Limited

(KAMRAN YOUSAF)
General Manager / Head
Geotechnical & Geo-Environmental Engineering Division

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DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 1: Hyderabad - Hala Section

GEOTECHNICAL INVESTIGATIONS

	BILL OF QUANTITIES						
Sr. No.	Description	Unit	Qty.	Rate	Amount		
A.	FIELD INVESTIGATIONS			(Rs.)	(Rs.)		
Al	Mobilization and demobilization of at least Two (02) straight rotary drilling rigs / percussion boring equipments alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job				
A2	Execution of Eleven (11) boreholes of 30 m - 40 m depth below NSL in overburben soils or upto rock strike level, whichever is met earlier, by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	290	-			
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a minimum depth of 3 m below rock strike level, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L,M.	60				
A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	270				
A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	20				
A5	Excavation of Thirty Nine (39) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignments including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	78				
A6	Excavation of Thirty Nine (39) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	58.5				
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling, packing, storage & transportation to an approved testing laboratory	No.	136				
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	136				
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	4				
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	10				
	Sub-Total A =						

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil & bedrock. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil /rock / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 1: Hyderabad - Hala Section

	Description	Unit	Qty.	Rate	Amount
Sr. No.				(Rs.)	(Rs.)
В.	LABORATORY TESTING				
B1	Sieve Analysis	No.	175		
B2	Hydrometer Analysis	No.	50		
В3	Liquid and Plastic Limits	No.	80		
B4	Natural Moisture Content	No.	40		
B5	Bulk & Dry density	No.	40		
В6	Consolidation with Swell Pressure Measurement	No.	4		
В7	Unconfined Compression	No.	10		
B8	Uniaxial Compression	No.	10		
В9	Point Load Strength Index	No.	10		
B10	Direct Shear	No.	10		
B11	Modified AASHTO Compaction	No.	140		
B12	3-point soaked CBR	No.	140		
B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	10		
B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	10		
141	Sub-Total B =				
	Total (A+B)=				



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 2: Ranipur - Rohri Section

GEOTECHNICAL INVESTIGATIONS BILL OF QUANTITIES

	BILL OF QUANTITIES				
Sr. No.	Description	Unit	Qty.	Rate	Amount
Α.	FIELD INVESTIGATIONS			(Rs.)	(Rs.)
A1	Mobilization and demobilization of at least Two (02) straight rotary drilling rigs / percussion boring equipments alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job		
A2	Execution of Fifteen (15) boreholes of 30 m - 40 m depth below NSL in overburben soils or upto rock strike level, whichever is met earlier, by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	400		
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a minimum depth of 3 m below rock strike level, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	80		-
A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	375		
A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	25		
A5	Excavation of Forty Two (42) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignments including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	84		
A6	Excavation of Forty Two (42) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	63		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling, packing, storage & transportation to an approved testing laboratory	No.	146		
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	146		
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	5		
A 10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	12		
	Sub-Total A =				

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil & bedrock. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil / rock / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 2: Ranipur - Rohri Section

	Description	Unit	Qty.	Rate	Amount
r. No.				(Rs.)	(Rs.)
В.	LABORATORY TESTING				
B1	Sieve Analysis	No.	200		
B2	Hydrometer Analysis	No.	75		
В3	Liquid and Plastic Limits	No.	100		
B4	Natural Moisture Content	No.	50		
B5	Bulk & Dry density	No.	50		
В6	Consolidation with Swell Pressure Measurement	No.	5		
В7	Unconfined Compression	No.	15		
В8	Uniaxial Compression	No.	20		
В9	Point Load Strength Index	No.	15		
B10	Direct Shear	No.	10		
B11	Modified AASHTO Compaction	No.	146		
B12	3-point soaked CBR	No.	146		
B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	12		
B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	12		
	Sub-Total B =				
	Total (A+B)=				



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 3: Okara - Manga Section

GEOTECHNICAL INVESTIGATIONS BILL OF QUANTITIES

	BILL OF QUANTITIES Description	Unit	Qty.	Rate	Amount
Sr. No.	A			(Rs.)	(Rs.)
A.	FIELD INVESTIGATIONS				
A1	Mobilization and demobilization of at least Two (02) straight rotary drilling rigs / percussion boring equipments alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job		
A2	Execution of Fifteen (15) boreholes of 30 m - 40 m depth below NSL in overburben soils by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	500		
A3	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	460		
A4	Collection of relatively undistrubed soil samples from boreholes through Denison/Pitcher/Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	40		
A5	Excavation of Forty (40) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignments including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	80		
A6	Excavation of Forty (40) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	60		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling,packing, storage & transportation to an approved testing laboratory.	No.	140		
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	140		
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	5		
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	12		
	Sub-Total A =				

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.

DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 3: Okara - Manga Section

	Description	Unit	Qty.	Rate	Amount
r. No.				(Rs.)	(Rs.)
В.	LABORATORY TESTING				
B1	Sieve Analysis	No.	210		
B2	Hydrometer Analysis	No.	75		
В3	Liquid and Plastic Limits	No.	100		
B4	Natural Moisture Content	No.	40		
B5	Bulk & Dry density	No.	40		
В6	Consolidation with Swell Pressure Measurement	No.	8		
В7	Unconfined Compression	No.	20		
В8	Direct Shear	No.	20		
В9	Modified AASHTO Compaction	No.	145		
B10	3-point soaked CBR	No.	145		
B11	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	12		
B12	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	12		
	Sub-Total B =				
	Total (A+B)=				



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 4: Lahore - Gujranwala Section

GEOTECHNICAL INVESTIGATIONS BILL OF OUANTITIES

	Description	Unit	Qty.	Rate	Amount
Sr. No				(Rs.)	(Rs.)
A.,	FIELD INVESTIGATIONS				
A1	Mobilization and demobilization of at least Two (02) straight rotary drilling rigs / percussion boring equipments alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job		
A2	Execution of Twenty Two (22) boreholes of 30 m - 40 m depth below NSL in overburben soils by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	680		
A3	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	640		
A4	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	40		
A5	Excavation of Forty One (41) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignments including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	82		
A6	Excavation of Forty One (41) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	61.5		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling,packing, storage & transportation to an approved testing laboratory.	No.	144		
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	144		- 22
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	5		ä
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	15		
	Sub-Total A =				

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.

DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 4: Lahore - Gujranwala Section

	Description	Unit	Qty.	Rate	Amount
r. No.				(Rs.)	(Rs.)
В.	LABORATORY TESTING	<u> </u>			
B1	Sieve Analysis	No.	230	=	
B2	Hydrometer Analysis	No.	50		
В3	Liquid and Plastic Limits	No.	80	-	
B4	Natural Moisture Content	No.	40		
B5	Bulk & Dry density	No.	40		
В6	Consolidation with Swell Pressure Measurement	No.	5		
В7	Unconfined Compression	No.	20		
В8	Direct Shear	No.	20		ř
В9	Modified AASHTO Compaction	No.	150		
B10	3-point soaked CBR	No.	150		
B11	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	15		×
B12	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	15	3	
- n	Sub-Total B =		-	=	
	Total (A+B)=	2			

Name of Laboratory:			



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package 5: Kharian - Dina Section

GEOTECHNICAL INVESTIGATIONS BILL OF QUANTITIES

	BILL OF QUANTITIES				
Sr. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
A.	FIELD INVESTIGATIONS			(145))	(10)
Al	Mobilization and demobilization of at least Two (02) straight rotary drilling rigs / percussion boring equipments along with allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L,S,	Job		
A2	Execution of Ten (10) boreholes of 30 m - 40 m depth below NSL in overburben soils or upto rock strike level, whichever is met earlier, by straight rotary drilling / precussion boring method including backfiiling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	300		
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a minimum depth of 3 m below rock strike level, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	80		
A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	280		
A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	20		
A5	Excavation of Twenty Five (25) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignments including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	50		
A6	Excavation of Twenty Five (25) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	37.5		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling,packing, storage & transportation to an approved testing laboratory.	No.	85		
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	85		
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	4		
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	5		
	Sub-Total A =				

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil & bedrock. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil / rock / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package 5: Kharian - Dina Section

r. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
В.	LABORATORY TESTING				
В1	Sieve Analysis	No.	120		
B2	Hydrometer Analysis	No.	50		
В3	Liquid and Plastic Limits	No.	50		
B4	Natural Moisture Content	No.	40		
B5	Bulk & Dry density	No.	40		
В6	Consolidation with Swell Pressure Measurement	No.	3		
В7	Unconfined Compression	No.	10		
B8	Uniaxial Compression	No.	10		
В9	Point Load Strength Index	No.	10		
B10	Direct Shear	No.	10		
B11	Modified AASHTO Compaction	No.	89		9
B12	3-point soaked CBR	No.	89		
B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	5		
B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	5		
	Sub-Total B =				
	Total (A+B)=			A	



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 6: Dina - Rawat Section

GEOTECHNICAL INVESTIGATIONS BILL OF QUANTITIES

Sr.	Description	Unit	Qty.	Rate	Amount
No.				(Rs.)	(Rs.)
A.	FIELD INVESTIGATIONS				
A1	Mobilization and demobilization of at least Two (02) straight rotary drilling rigs / percussion boring equipments alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job	,	
A2	Execution of Fourteen (14) boreholes of 30 m - 40 m depth below NSL in overburben soils or upto rock strike evel, whichever is met earlier, by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	410		6
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a minimum depth of 3 m below rock strike level, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	100		
A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	380		
A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	30		
A5	Excavation of Thirty (30) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignment including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	60		
A6	Excavation of Thirty (30) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	45		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling,packing, storage & transportation to an approved testing laboratory.	No.	105		
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	105		
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	4		
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	10		

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil & bedrock. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil / rock / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 6: Dina - Rawat Section

Sr. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
В.	LABORATORY TESTING			(10.)	(165.)
BI	Sieve Analysis	No.	175		
B2	Hydrometer Analysis	No.	75		
B3	Liquid and Plastic Limits	No.	75		
B4	Natural Moisture Content	No.	50		
B5	Bulk & Dry density	No.	50		
В6	Consolidation with Swell Pressure Measurement	No.	8		
В7	Unconfined Compression	No.	15		
В8	Uniaxial Compression	No.	15		
В9	Point Load Strength Index	No.	15		
B10	Direct Shear	No.	15		
B11	Modified AASHTO Compaction	No.	109		
B12	3-point soaked CBR	No.	109		
B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	10		
B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	10		
	Sub-Total B =				
	Total (A+B)=				





DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 7: Rawalpindi - Hassanabdal Section

GEOTECHNICAL INVESTIGATIONS BILL OF QUANTITIES

Sr.	BILL OF QUANTITIES Description	Unit	Qty.	Rate	Amount
No.	Description	Omi	Qiy.	(Rs.)	(Rs.)
A.	FIELD INVESTIGATIONS				
Al	Mobilization and demobilization of at least One (01) straight rotary drilling rig / percussion boring equipment alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job		
A2	Execution of Seven (07) boreholes of 30 m - 40 m depth below NSL in overburben soils or upto rock strike level, whichever is met earlier, by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	200		
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a minimum depth of 3 m below rock strike level, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	30		
A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	185		
A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	15		
A5	Excavation of Twenty Nine (29) testpits upto a maximum depth of 2 m or upto subgrade, whichever is met earlier, along the existing road alignments including exposing existing road / pavement layers and backfilling of pits to original condition including casting of 1 ft thick P.C.C. (1:2:4) pad at top of each pit for level surfacing.	L.M.	58		
A6	Excavation of Twenty Nine (29) testpits upto a maximum depth of 1.5 m below NSL along proposed widening portion inclusing backfilling of pits to original condition.	L.M.	43.5		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 - 3 tests/pit at selected horizons in existing pavement layers (i.e. in Water Bound Mecadam / Aggregate Base Course, Sub-Base and Subgrade) including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method as well as labelling,packing, storage & transportation to an approved testing laboratory.	No.	102	-	
A8	Collection of composite bulk samples (from Water Bound Mecadam, Aggregate Base Course, Sub-Base and Subgrade) from testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	102		3
A9	Collection of composite bulk samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	4		
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	4		
	Sub-Total A =				

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil & bedrock. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.

All soil / rock / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.



DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5 Package - 7: Rawalpindi - Hassanabdal Section

	Description	Unit	Qty.	Rate	Amount
r. No.	I A DOD A TODY TESTING			(Rs.)	(Rs.)
В.	LABORATORY TESTING				<u>. </u>
B1	Sieve Analysis	No.	130	. 0	,
B2	Hydrometer Analysis	No.	30		
В3	Liquid and Plastic Limits	No.	50		
B4	Natural Moisture Content	No.	20		
B5	Bulk & Dry density	No.	20		
В6	Consolidation with Swell Pressure Measurement	No.	2		
B7	Unconfined Compression	No.	5		
В8	Uniaxial Compression	No.	5		
В9	Point Load Strength Index	No.	5		
B10	Direct Shear	No.	5		
B11	Modified AASHTO Compaction	No.	106		
B12	3-point soaked CBR	No.	106		
B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	4		
B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	4		
	Sub-Total B =				
	Total (A+B)=				



QUALIFICATION OF BIDDING CONTRACTORS FOR GEOTECHNICAL INVESTIGATIONS FOR DETAILED DESIGN FOR WIDENING AND IMPROVEMENT OF PRIORITY SECTIONS OF N-5

(Package - 1, 2, 3, 4, 5, 6 & 7)

1. Qualification Criteria

Qualification will be based on the criteria given in the following paras regarding the Applicant's experience, personnel and equipment capabilities, financial position and litigation history, as demonstrated by the Applicant's responses in the Forms attached as Annex-A to this Document. The Employer reserves the right to waive minor deviations, if these do not materially affect the capability of an Applicant to perform the contract by the Applicant.

Experience and resources of the Company intended to be employed as sub-contractor shall not be taken into account in determining the Applicant's compliance with the qualifying criteria. However, for joint venture, collective experience, resources and financial soundness of all partners shall be considered.

1.1 General Information

The Applicant shall provide general information of his firm as per the format specified in the Application Form A-1 attached in Annex-A.

1.2 Experience of the Firm

The Applicant shall meet the following minimum criteria:

Successful experience as contractor in the execution of at least five (5) projects involving bulk of geotechnical investigations within the last three (03) years. This experience should specifically be of geotechnical investigations of similar nature. The Applicant will supply information as per the format specified in the Application Form A-2 attached in Annex-A.

1.3 Personnel Capabilities

The Applicant must have in his employment, suitably qualified and experience personnel to fulfill the positions tabulated below. The Applicant will supply information as per the format specified in the Application Form A-3 attached in Annex-A.

Sr.					M	inimum l	No.			Minimum
No.	Position	Qualification	Packa ge - 1	Packa ge - 2	Packa ge - 3	Packa ge - 4	Packa ge - 5	Packa ge - 6	Packa ge - 7	Experience (Years)
1	Technical Manager	B.Sc. Civil Engg.	1	1	1	1	1	1	1	5
2	Site Geologist/ Supervisor / Engineer	M. Sc. Geology/ B.Sc. Civil Engg. / B.Sc. Geological Engg.	2	2	2	2	2	2	1	2
3	HSE Supervisor	HSE Certification course	1	1	1	1	1	1	1	1
4	Driller	Literate	2	2	2	2	2	2	1	3



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|---|---------|---|--------|--------|--------|--------|--------|--------|--------|---|
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| | Labor | | ed | |

1.4 Equipment Capabilities

The Applicant should own, or have assured access to the following key items of equipment in full working order, and must demonstrate that, based on known commitments, these will be available for deployment on the proposed works.

C	Equipment Type &			Minimum	Number	Required		
Sr. No.	Equipment Type & Characteristics	Package - 1	Package - 2	Package - 3	Package - 4	Package - 5	Package - 6	Package - 7
1	Straight Rotary Drilling rigs complete in all respects including drilling rods, bits, mud pumps etc. along with at least one stand-by rig.	2	2	2	2	2	2	1
2	Percussion boring set (≥ 300 mm diameter) complete in all respects including tripod, chiesal/bit etc.	2	2	2	2	2	2	• 1
3	Casing set having various diameters for all types of boring at least 40 m in length with casing bits.	2	2	2	2	2	2	1
4	Core barrels (single tube & double tube) including coring and casing bits	2 each	2 each	2 each	2 each	2 each	2 each	1 each
5	Standard penetration test (SPT) equipment complete in all respects including all rods, split spoon sampler, hammer, container etc.	2	2	2	2	2	2	1
6	Denison/Pitcher/Shelby samplers and tubes	2 each	2 each	2 each	2 each	2 each	2 each	1 each
7	Hydraulic jacks with all accessories for the extraction of casings	1	1	1	1	1	1	1
8	Electrically operated sounder for groundwater level measurement	1	1	1	1	1	1	1
9	Testpit excavation equipment, complete in all respects	As required	As required	As required	As required	As required	As required	As required



Sr.	Equipment Type &			Minimun	Number	Required		
10	Field density test apparatus complete in all respect as per ASTM requirements.	As required	As required	As required	As required	As required	As required	As required
11	Wooden box for the preservation of undisturbed soil samples and rock cores	As required	As required	As required	As required	As required	As required	As required
12	Transport for mobilization of equipment	As · required	As required	As required	As required	As required	As required	As required

The Applicant will supply information as per the format specified in the Application Form A-4 attached in Annex-A.

1.5 Financial Capabilities

The Applicant shall meet the following minimum criteria:

1) Annual turnover which is also termed as income from contracting for procurement of geotechnical investigations and is defined as billing for works completed during the last three (3) years of at least Rs. 15 million.

The Applicant shall also provide evidence of financial health such as bank account statements, available line of credits, etc., to show the soundness of the Applicant's financial position for procurement of geotechnical investigations works. The Applicant will provide annual turnover of the geotechnical investigation works carried out by him during the last three years. The Applicant will supply annual turnover information as per the format specified in the Application Form A-5 attached in Annex-A.

1.6 Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from Contracts completed or under execution over the last three (03) years. The Applicant will supply information as per the format specified in the Application Form A-6 attached in Annex-A. A consistent/ overwhelming history of award against the Applicant may result in rejection of the application. In case an Applicant claims Nil litigation, he shall submit the same statement on the letter head of his company.

1.7 Application of Health, Safety and Environmental Standards

The Applicant should provide the HSE Policies and supporting documentary evidence for the following:

- i) First Aid Box
- ii) Personnel Protective Equipments (PPEs)
- iii) Standard Operating Procedures (SOPs)
- iv) Health, Safety and Environmental (HSE) Policies
- v) HSE staff



Application Form A-1

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General Information

All individual Applicants applying for qualification are requested to complete the information in this form. Nationality information (if applicable) is also to be provided for foreign owners as required under the PEC Bye-Laws as a Partnership.

1.	Name of Firm	*
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title: Cell No.
4.	Fax	E-mail
5.	Place of Incorporation/Registration Certificates of the firm*	Year of incorporation/registration

- Valid registration with Pakistan Engineering Council (PEC)
- Valid registration with Federal Board of Revenue (FBR)
- Valid registration with concerned Provincial Revenue Authority (PRA)
- Proof of active taxpayer of FBR & PRA



^{*} Registration certificates must include:

Application Form A-2	Page ofPages
Experience of the Firm	

Name of Applicant:

Sr. No.	Name of Project	Value of Geotechnical Contract* (Pak Rs.)	Contract Duration
	*		

^{*}Attach copy of Letter of Awards / Project Completion Certificates for any five (5) latest projects.



App	lication	Form	A-3
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Personnel Capabilities	Personr	ıel	Capa	bi	lities
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Name	of Applicant:	

Sr. No.	Name of Person	Qualification	Designation/ Position*	Total Experience
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^{*}Attach CVs of the Key Staff Members.



Application Form A-4

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Equipment Capabilities

Name of Applicant:	

Sr. No.	Equipment Description	Capacity	Number of Equipment	Working Condition a) Very good b) Good	Current Location
				c) Satisfactory	
	B-C				
	1.				



Application Form A-	Apı	plica	ation	Form	A-5
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Financial Capabilities

Name of Applicant:

Year	Annual Turnover (in PKR)
2022 - 2023	
2021 - 2022	
2020 - 2021	

Note: Financial soundness certificate from the bank(s) as specified in section 1.5 must be provided by the Applicant



Application Form A-0	Application	Form	A-6
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Litigation History

Name of Applicant:	•	

Year	Award for or against Applicant	Name of Client, cause of litigation, and matter in dispute	Disputed amount (current value Pak Rs. or equivalent)
			G.



Application Form A-	Ap	lq	ica	tion	Form	A-7
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Health, Safety and Environmental (HSE) Policies Personal Protective Equipment (PPE) and Standard Operating Procedures (SOP) of the Contractor

Name of Applicant:
The Applicant should provide the following policies/supporting documentary evidence as required in Para 1.7.
A. HSE Policies
Please attach HSE Policies

B. Details of PPE Available with the Contractor

Sr. No.	Type of PPE	Total Number

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C. Details of SOPs of the Contractor

Please attach the copies of SOPs

