"Schedule of the Quantity" Cum "Unprice bid format"

Name of the work: TOPOLOGICAL SURVEY AND GEO-TECHNICAL INVESTIGATION WORK FOR 265 TPH STEAM GENERATION PACKAGE FOR BPCL , BINA PETCHEM AND REFINERY EXPANSION PROJECT (BPREP) AT BINA, MADHYA PRADESH.

Tender Ref no.T0AZX00003, Dated:03.01.2026

SL NO	DESCRIPTION	Unit	Quantity	Rate in Rs.	Amount in Rs.	Weightage (in %)	Remark
1.0	TOPOGRAPHICAL SURVEY. (PART - A)	Set	1			5.416743319	Refer PART-A for details SOQ,
2.0	GEOTECHNICAL INVESTIGATION (PART - B)	Set	1			94.58325668	Refer PART-B for details SOQ
	GRAND TOTAL FOR PART-A & B					**100.00000000**	

TOPOGRAPHICAL SURVEY (PART - A)						
SL.NO	**ITEM**	**UNIT**	**QTY.**	**Rate in Rs.**	**Amount in Rs.**	**Weightage (in %)**
1	Carrying out bench mark from the nearest GTS bench mark or any other available source as approved by the engineer-in-charge to different locations in the project area including clearing of jungles and/or cutting trees and any other works required for completion of the said item etc all complete as per specification and instructions of the engineer-in-charge. (Construction of bench mark pillar to be paid separately)	km	2			17.62
2	Carrying out topographical survey of plant and allied areas showing all permanent & general features. Locating (coordinates, plan dimensions, object name etc) existing building, structure, roads, drains, manhole, poles, cable trenches, pipe trenches etc and detailed contour survey by taking spot levels at 10m interval, carrying out cross section of canal/nallah by taking spot levels at 5m interval or less including clearance of jungles and cutting of trees etc which are interfering with the survey works and any other field works necessary for the completion of the said item, preparation and submission of all plans (maps), reports, CDs and originals etc all complete as per specification and instructions of the engineer-in-charge.	SQM	14000			7.24
3	Construction of bench mark pillar/ reference pillar/ grid pillar etc with concrete at different locations including clearing of jungles, excavation, supply of materials, pillar marking, backfilling, white washing, painting on MS plate etc all complete as per specification, drawings and instructions of the engineer-in-charge. For construction of pillars only following quantities shall be measured for payment.					
	a) RCC (M25 grade as per DSR-2018 item no. 5.33.1)	CUM	6			58.50
	b) Formwork (as per DSR-2018 item no. 5.9.1)	SQM	30			10.35
	C) Reinforcement (as per DSR-2018 item no. 5.22.6)	kg	50			4.97
	d) Earth work (as per DSR-2018 item no. 2.6.1)	CUM	6			1.32
	Total Weightage for (PART -A)					**100**

GEOTECHNICAL INVESTIGATION (PART - B)						
SL. NO.	**DESCRIPTION OF ITEM**	**UNIT**	**QTY.**	**Rate In Rs.**	**Amount in Rs.**	**Weightage (in %)**
1	Mobilisation of necessary equipments, men and materials to the project site for carrying out the geotechnical investigation and demobilisation of the same after completion of all the field works etc all complete as per specification, drawings and as directed by the engineer-in-charge.	LS	1			29.29625697
2	Making 150mm nominal diameter bore hole up to a maximum depth of 15 m below ground level at various locations in all types of soil including laterite using suitable approved method of boring including chiselling, cleaning, providing casing pipes as required or as directed; performing standard penetration test at every 1 m interval alternate to collection of undisturbed soil samples up to 10 m depth below ground level and at every 1.5 m interval alternate to collection of undisturbed soil samples beyond 10 m depth, at change of strata and at depths wherever undisturbed soil samples could not be collected; collection of undisturbed sample (UDS) at every 1 m interval alternate to conducting standard penetration test up to 10 m depth below ground level and at every 1.5 m interval alternate to conducting standard penetration test beyond 10 m depth; collection of disturbed soil samples and water samples, sealing and packing of samples, observation such as ground water table etc; transportation of all the collected samples to the laboratory and back filling of boreholes with sand on completion of the same etc all complete as per specification and as directed by the engineer-in-charge for depth below ground level.	RM	10			0.656657452
3	Core drilling (Nx size) in rock using hydraulic feed rotary drill and double tube core barrel with diamond bit including collection of core samples, performing SPT at locations where core recovery is less than 20%, maintaining continuous record of core recovery and RQD, keeping the cores in wooden core boxes, transporting the cores to laboratory, back filling the holes with 1 part of cement : 3 part of sand grout on completion of the same etc all complete as per specification, drawings and as directed by the engineer-in-charge.	RM	100			20.20439759
4	Excavating trial pit of size 3m x 3m at various locations upto a maximum depth of 2.5m below ground level in all types of soil/rock which can be excavated with pick axe/crow bar etc including sheeting or shoring the sides for the purpose of stability, dewatering and maintaining the pit dry at all times, collecting disturbed/undisturbed samples and conducting field density test at 1m interval, starting from 1m depth below ground level and transporting all the collected samples to the laboratory; backfilling of the pit with excavated material etc all complete as per specification and as directed by the engineer-in-charge.	CuM	45			0.591001577

GEOTECHNICAL INVESTIGATION (PART - B)						
SL. NO.	**DESCRIPTION OF ITEM**	**UNIT**	**QTY.**	**Rate In Rs.**	**Amount in Rs.**	**Weightage (in %)**
5	Conducting plate load test in various locations at specified depth complete as per specification, drawings and as directed by the engineer-in-charge. Payment for making the pit of suitable size, maintaining it dry and backfilling etc shall be paid separately as per item no.4.	NO	2			3.53575587
6	Conducting cross hole shear wave test in bore hole in all types of strata at 2m, 4m, 6m, 8m, 10m, 12m, 15m, depth below ground level including drilling and preparation of required number of bore holes, providing PVC liner, grouting and backfilling with sand after completion of the test etc all complete as per specification, drawings and as directed by the engineer-in-charge.	NO	2			23.63905196
7	Conducting field vane shear test in various locations at specified depth including collection of disturbed soil sample etc. all complete as per specification, drawings and as directed by the engineer-in-charge.	EACH	2			1.054139241
8	Conducting electrical resistivity test at various locations complete as per specification, drawings and as directed by the engineer-in-charge.	NO	18			4.545994392
9	Conducting field CBR test in various locations at specified depth below ground level complete as per specification, drawings and as directed by engineer-in-charge.	Each	2			0.707153367
10	Conducting laboratory test on soil samples at an approved laboratory including preparation of soil samples to determine the following properties etc all complete as per specification.					
a)	Natural moisture content	NO	10			0.040411208
b)	Sieve analysis	NO	10			0.101033503
c)	Hydrometer analysis	NO	10			0.101033503
d)	Liquid limit, plastic limit, Shrinkage limit and Plasticity Index	NO	10			0.101033503
e)	Bulk & Dry density and	NO	15			0.090933442
f)	Specific gravity & Void Ratio	NO	15			0.151550254
g)	Unconfined compressive strength	NO	15			0.227317156
h)	Triaxial shear test					
	(i) Undrained test	NO	8			0.105066947
	(ii) Drained test	NO	8			0.105066947
i)	Direct shear test	NO	10			0.176789438
j)	consolidation test (Odometer)	NO	8			0.242454087
k)	Differential free swell index	NO	8			0.121235817
l)	CBR test					
	(i) Soaked Condition	NO	8			0.404090145
	(ii) unsoaked Condition	NO	8			0.404090145

GEOTECHNICAL INVESTIGATION (PART - B)						
SL. NO.	**DESCRIPTION OF ITEM**	**UNIT**	**QTY.**	**Rate In Rs.**	**Amount in Rs.**	**Weightage (in %)**
12	Conducting laboratory test on rock samples including preparation of the samples to determine the following properties etc all complete as per specification.					
a)	Specific gravity	NO	25			0.214667406
b)	Crushing strength					
	(i) Soaked Condition	NO	15			0.530368315
	(ii) Unsoaked Condition	NO	15			0.530368315
13	Chemical analysis for					
a)	Soil	NO	15			1.515338044
b)	Subsoil Water	NO	15			1.515338044
14	Submitting Preparation and submission of draft report in 4 copies and final report in 5 hard copies and 2 soft copies on CD after the approval of draft report including all field records, laboratory test results, graphs, analysis of test results and recommendation etc all complete as per specification.	LS	1			9.091405371
	Total Weightage for (PART-B)					**100**
Note-1	Bidder to confirm having quoted their price in BHEL NIC portal (https://eprocurebhel.co.in) in the manner described in below, by writing "QUOTED" here					
2	Bidder no need to quote the price here, lumsum Price quoted by bidder in (excel sheet) price bid format in BHEL NIC portal (https://eprocurebhel.co.in) shall be cosidered as the total price of this tender SOQ (Total for Part-A & Part-B). Rate and amount against each line item shall be derived from the corresponding weightage assigned against each line item of this SOQ.					
3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 4.0 of the SCC will be applicable.					