

Lab Equipments-BOQ							
S.N	Description	Brand	Quantity	Unit	Name of Firm		Remarks
					Rate	Amount	
<b>A</b>	<b>General</b>						
<b>1</b>	<b>Oven</b>						
i	Oven24x24x24" Aluminum Chamber Digital Electrically operated,thermostatically controlled, (including thermometer) stainless steel interior		1	Set			
<b>2</b>	<b>Weigh Balance</b>						
i	Platform balance 300 kg		1	Set			
ii	Electronic Balance Model CH30R11 30kgx5gm OHAUS or Equivalent		1	Set			
iii	Electronic Balance Model CH30R11 20 kg0.5gm OHAUS or Equivalent		1	Set			
iv	Electronic Balance Model CT6000 Capacity 6010x0.5gm OHAUS or Equivalent		1	Set			
v	Electronic Balance Model NDB110 Capacity 2100x0.1gm OHAUS or Equivalent		1	Set			
3	Waterbath Serological 2 rack electric as per IS 6593		1	Set			
<b>4</b>	<b>Thermometer</b>						
i	Mercury Thermometer 250 <sup>0</sup> C		2	Set			
ii	Dial Thermometer 400 <sup>0</sup> C		2	Set			
iii	Gun Thermometer 250 <sup>0</sup> C		2	Set			
iv	Mercury Thermometer 50 <sup>0</sup> C		2	Set			
v	Wet and Dry Thermometer		1	Set			
5	Stop watch 1/5 sec Accuracy		1	Set			
6	Glassware: Containers and small tools including						
7	Enamel Coated GI Trays						
i	300x300x75		6	Set			
ii	400x400x75		6	Set			
iii	600x600x75		6	Set			
8	Aluminum Moisture Container 75x50mm		50	Set			
9	Rubber Mallet		1	Set			
10	Aggregate Steel Scoop (690*300*100mm)		2	Set			
11	Aluminium Scoop (125*200*75mm)		1	Set			
12	Guaging Trowel		2	Set			
13	S.S Bowlb 2 Lit		2	Set			
14	Volumetric Flasks						
	1000ml		2	Set			
	500ml		2	Set			
	250ml		2	Set			
15	Measuring Cylinders						
	1000ml		2	Set			
	500ml		2	Set			
	250ml		2	Set			
16	Beakers						
	1000ml		2	Set			
	500ml		2	Set			
	250ml		3	Set			
17	Vernier Caliper 150mm		1	Set			
18	Steel Ruler 300mm		1	Set			
19	Pairs of heat resistant Aesbestos handgloves		4	Set			
20	Set of sampling tools all materials		1	Set			
21	Set of crowbar, pick and spade		2	Set			
23	<b>GI Sieve 450mm dia Size per IS 462 with lid and pan</b>						
	75 mm		1	Set			
	63 mm		1	Set			
	50 mm		1	Set			
	45mm		1	set			
	37.50 mm		1	Set			
	31.50 mm		1	Set			
	26.5 mm		1	Set			
	22.4mm		1	Set			
	20 mm		1	Set			
	19 mm		1	Set			
	13.2 mm		1	Set			
	12.50 mm		1	Set			
	9.50 mm		1	Set			
	6.30 mm		1	Set			
	5.6 mm		1	set			
	4.75 mm		1	Set			
	Lid and pan set		1	Set			
24	<b>Brass Sieve 200mm dia Size(IS460 or BS 410)</b>						
	4.75 mm		1	Set			
	2.80 mm		1	Set			

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	2.36 mm		1	Set			
	2.00 mm		1	Set			
	1.18 mm		1	Set			
	600 micro		1	Set			
	425 micro		1	Set			
	300 micro		1	Set			
	150 micro		1	Set			
	0.71 micro		1	Set			
	0.09 micron		1	Set			
	0.075 micron		1	Set			
	Lid and pan set		1	Set			
26	Specific Gravity Bottle 100ml		2	Set			
27	Steel Bowl 750ml		5	pic.			
<b>B</b>	<b>Soil Test &amp; Aggregate Test(Soil,sub-Base,Base)</b>						
1	Organic Content testing kit (set)		1	Set			
2	Sodium Sulfate		5	kg			
3	Modified AASHTO Compaction apparatus as per IS 2720 ( part 8)or heavy compaction , complete with collar, base plate and hammer with all other accessories		1	Set			
i	Compaction Mould 150mm		2	Set			
ii	Sample Splitters (Riffle boxes) 50 mm		1	Set			
iii	Scraper Tool		1	no			
4	Liquid limit & Plastic Limit device with grooving tools As Per IS 2720		1	Set			
i	Glass Plate 400x600x6mm		2	Set			
ii	Spatulas 200mm		2	Set			
iii	Evaporating Disc 150mm		3	Set			
5	Sand Pouring Apparatus 150mm AS Per IS 2720 part 28		1	Set			
i	Standard sand(Zone I,II,III)		9	Bags			
iv	Rapid Moisture Meter all complete Set		1	set			
6	Aggregate Impact Value Test Apparatus as per IS 2386 part 4		1	Set			
7	Los Angeles Abrasion Test Apparatus as per IS 2386 part 4		1	Set			
8	Aggregate Crushing value Test Mould		1	Set			
9	Flakiness Index Test Apparatus		1	Set			
10	Elongation Index Text Gauge		1	Set			
11	Bulk Density of Aggregate Test 30, 15 and 3 Lit		1	Set			
12	Specific gravity test apparatus set with Balance(6200gm) of fine and coarse aggregates as per IS : 2386 part 3		1	Set			
i	Wash Bottle		5	Set			
13	CBR Test Apparatus With Proving ring 10kn & 25kn as per IS 2720 part 16, electrically operated with speed control with all complete accessories		1	Set			
i	Dial gauges 25 mm travel 0.01 mm/ division		9	Set			
ii	Annular Weight 2.5kg		9	Set			
iii	Central Hole Weight 2.5kg		9	Set			
iv	CBR Mould 150mm		9	Set			
v	Perforated Plate Brass		9	Set			
vi	Spacer Disc		3	Set			
vii	Tripod		9	Set			
viii	Rammer 4.89 kg		3	Set			
14	Sand equivalent test set, complete with graduate plastic cylinder, manual or mechanical shaker and stock solution IS 2720 Part 37		1	Set			
15	Filter Paper(150mm Dia)		10	pkt.			
<b>C</b>	<b>Cement &amp; Concrete Test</b>						
1	Vicat needle apparatus for setting time with plungers as per IS 269		1	Set			
2	Slump Test Apparatus BS 1881 Part 102		1	Set			
3	Cube Mould 150mm		24	Set			
4	MortarCube Mould 70.7 mm		24	Set			
5	Compression Strength Testing Machine 2000 K.n computerized		1	Set			
6	Compression Strength Testing Machine 200 K.n digital						
7	Heavy Duty Working table (2.0*1.2*0.9 m)						
8	Light weight Hammer Test		1	Set			
9	Flexure Strength Testing Machine 100 kn Capacity with additional dial for flexural testing						

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S.N	Description	Brand	Quantity	Unit	Name of Firm		Remarks
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10	Rubber Hammer For Concrete cube Moulding		6	Set			
11	Soundness testing apparatus For Cement(Le-Chatelier)		2	Set			
7	Tool kit Box (195*240*435)Stainless Steel Materials Made including 6-22mm combination set 12 inch.sliding wrench 8 inch plier 5*6 screw driver,allen key set and other necessary accessories all complete set		1	Set			
<b>D</b>	<b>Bitumen &amp; Asphalt Test</b>						
1	Standared spray trays For Tray test Prime & Tack Coat		12	Set			
2	Electrecret operated bitumen extractor 500ml With 5pkt. filter paper		1	Set			
3	3 m straight edge		1	Set			
4	Camber board and spirit level		2	Set			
5	Marshall Stability Test Appartus, complete with all accessories(with 18 N Marshall Moulds)		1	Set			
6	Bitumen Laboratory Mixer inculding required accessories		1	Set			
7	Core Cutter Machine with complete Apparatus (150 mm & 100 mm Dia Bit)		1	Set			
8	Viscometer		1	Set			
9	Penetrometer with standerd Needle Automic		1	Set			
10	Flash & Fire point test Apparatus		1	Set			
11	Ductility test Apparatus		1	Set			
12	Softening Point Test Apparatus		1	Set			
<b>Sub-Total</b>							
VAT (13%)							
<b>Grand Total</b>							
<b>Rank</b>						<b>I</b>	