



BHARAT HEAVY ELECTRICALS LIMITED
ELECTRO PORCELAINS DIVISION
BANGALORE : 560 012

TENDER DOCUMENT
(PART-B)
(Price Bid Format)

Works contract for Asphaltting of roads

DEPARTMENT : WORKS ENGINEERING
SECTION : CIVIL

Schedule A (Part B)**Name of the Work: Works contract for asphaltting of roads**

S.N.	Item	Unit	Qty.	Rate	Amount
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil working depth upto 1.5 m including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking the clods etc complete by mechnaized equipments	cum.	168.00		
2	Re-Filling available excavated earth (excluding rock) in sides of foundation upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 1000m and lift upto 1.5m including cost of all labour etc complete by mechanical means	cum.	100.00		
3	Dismantling existing structures comprising of masonry concrete, wood work. Steel work (minor) including T & P and scaffolding wherever required, sorting the dismantled materials, disposal of unservicable materials safely to the bins identified by Engineer-in-charge inside the factory premises and stacking the servicable materials with all leads upto 1000m and lift 1.5m etc complete.	cum.	50.00		
4	Dismantling of existing steel structures by cutting into such shape and sizes that it can be reused, stacking it properly at the identified locations inside the factory premises and disposing unusable materials to the metal scrap bin including the cost of gas cutting, welding, scaffolding etc and including cost of all materials, labour, HOM of machinery etc complete	MT	5.00		
5	Labor charges for fabricating of steel structure consistng of Circular / Square / Rectangular Hollow Sections / Angles / Channels / Standard I-sections / Plates etc. with available new steel or by collecting from released structural members by welding/ gas cutting and applying two coats of PU paint of approved make and color over a coat of red oxide primer including necessary scaffolding, tools and plants up to working height of 6.00 mtrs. Fabrication to be done as per IS - 800 & and as per approved drawing unless otherwise specified. The tolerance of fabrication steel structure shall be in accordance with BIS:7215 unless otherwise specified. Steel will be issued by BHEL free of cost	MT	2.78		
6	Disposal of waste debris consistng of clay waste, waste sand, excavated earth, brick bats, waste plaster of paris, concrete debris, waste wood, waste gunny bags and garbage etc., through lorry / truck outside factory premises including loading, unloading. Collection of waste to be done from the construction site, waste bins etc. The contractors should dispose the waste as per norms of BBMP	cum.	150.00		
7	Providing and laying in position plain cement concrete (PCC) 1:4:8 with OPC @ 180 kg of approved make using 40mm and downsize graded granite metal coarse aggregate @0.85 cum. and fine aggregates @ 0.57 cum., machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete.	cum.	78.30		

8	Construction of compact cement concrete kerb of approved make with top and bottom width 115mm and 165mm respectively, 250mm high in M20 grade PCC on M10 grade foundation 150mm thick, foundation having 50mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete Using concrete mixer.	RM	1256.00		
9	Providing and constructing granite size stone masonry in superstructure and substructure with cement mortar 1:6, edges of stones chistle dressed in course not less than 15cms high, bond stones at every 2m apart in each course including cost of materials, labour, scaffolding, curing etc complete.	cum.	10.00		
10	Providing and laying in position reinforced cement concrete (RCC) of design mix M25 (can be RMC) using 20mm and downsize graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation, plinth and ground floor level for drainage sides and bed (upto 200mm), drainage cover with slab with thickness 100mm or more including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing etc complete.	cum.	222.00		
11	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as foundations, footings, bases of columns, for mass concrete including cost of all materials, labour etc complete.	sqm.	672.00		
12	TMT steel reinforcement fabrication for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and/ or welding wherever required, tying with binding wire and anchoring to the adjoining members, wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery etc complete. The design of reinforcement should be certified by Engineer-in-charge before commencement of bar binding work. Supply of binding wire also will come under the scope of contractor. TMT steel rods will be provided free of cost by BHEL	MT	23.00		
13	Cleaning the existing black-top surface with brooms, soft-brushes, and finally dusting with old gunny bags or compressed air to receive bituminous treatment including cost of all labor, materials, HOM of machineries complete as per specifications.	sqm.	4668.00		
14	Providing and applying tack coat using 80/100 grade bitumen (VG-10) on prepared black topped surfaces at the rate of 2.50/10 sqm., heating bitumens in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labor, HOM of machineries complete as per specifications	sqm.	4668.00		
15	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of size upto 8mm of specified grading, pre-mixed with bituminous binder and filler, transporting the hot-mix to work-site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction etc complete in all respects using 40/60 TPH capacity HMP with Mechanical Paver Gr-II with 6% VG-30 bitumen	cum.	187.20		

16	Providing and laying SEAL COAT for sealing voids on bituminous surface, laid to the specified levels, grade and cross fall manually and rolling with power roller 8-10 tonne capacity including cost of all materials, labour HOM of machinery etc complete using graded aggregates 6.7mm and downsize at 0.009 cum/sqm with bitumen binder VG - 10 (80/100 grade) at 0.98kg/sqm.	sqm.	4668.00		
17	Providing and laying / fixing cement base, pre-cast, pre-polished cement concrete, designer tiles 25mm thick for heavy duty flooring, treads of steps, landing,, laid on a bed of 12mm thick cement mortar, 1:3 ni finished with flush pointing using white-cement, including cost of materials, including cutting, grinding, the edge to half / full, round wherever required, labor, curing complete	sqm.	540.00		
18	Painting lines, dashes, arrows etc., on roads in two coats on new work with ready mixed marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust, and other foreign materials,, demarcation at site etc. complete upto 10cm. in width	sqm.	189.00		
19	Providing Laying and rolling of bituminous cold mix on prepared base consisting of a mixture of unheated mineral aggregate and emulsified or cutback bitumen, including mixing in a plant of suitable type and capacity, transporting, laying, compacting and finishing to specified grades and levels complete as per specifications using bitumen emulsion at 175 kg/cum & 9.5mm or 13.2mm nominal size aggregate.	cum.	20.00		
20	WET MIX -Providing, laying, spreading and compacting crushed stone aggregates of granite /trap/basalt to wet mix macadam specifications including pre-mixing the material with water at OMC in mechanical mix plant carriage of mixed materialsby tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete	cum.	112.43		
			Sub Total =		
Taxes, if any (i)					
(ii)					
(iii)					
			Grand Total =		

(Rupees _____)

Note: (i) Rate quoted must be in actual figures and not in the percentage form. Quotation having rates in percentage formats will be (ii) Bidders are advised to meet the Engineer Incharge, visit the work spots and understand the scope of work clearly before quoting.

(iii) Taxes and duties as applicable may be quoted saperately in the space provided. Otherwise the rate quoted above will be considered as inclusive of all taxes and no further clarification in this regard will be entertained later.

iv) Bidders are required to account the cost towards safety measures like providing barricading, safety equipments & PPE's to

Signature of the Bidder =

Name of the Bidder =

Address of the Bidder =

Contact No. of the Bidder =

E-mail of the Bidder =