

SECTION 6
FORM OF BID

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Description of the Works: Appointment of contractor for development of KalyanMurbad Road from KDMT Bus Depot to Karnik Road as smart street under the network of complete street project under the smart city proposal of Kalyan-Dombivli city

BID

To :

Address

We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specification, drawings, Bill of Quantities and Addenda for the sum(s) of

We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the document.

We agree to abide by this Bid for the period of _____ days from the date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any tender you may receive.

We accept the appointment of Shri _____ as the Dispute Review Expert.

(OR)

We do not accept the appointment of Shri _____ as the Dispute Review Expert and propose instead that Shri be appointed as Dispute Review Expert, whose BIO-DATA is attached.

Dated this _____ day of _____

Signature _____ in the capacity of _____ duly authorized to sign bids for
and on behalf of _____

(in block capitals or typed)

Address

Witness

Address

Occupation

SECTION 7
BILL OF QUANTITIES

BILL OF QUANTITY

Preamble

1. The Bill of Quantities shall be read in conjunction with the instructions to bidders, conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. A rate or price shall be entered against each item in the Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
7. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
8. The method of measurement of completed work for payment shall be in accordance with the specification for Road and Bridge Works published by the Ministry of Surface Transport (edition).
9. Errors will be corrected by the Employer for any arithmetic errors pursuant to Clause 29 of the Instructions to Bidders.
10. Rock is defined as all materials which, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 150 kw with a single rear mounted heavy duty ripper.

BILL OF QUANTITIES

Sr. No	Description	Unit	Qty.	Rate (INR) in figures	Rate (INR) in words
1	Providing and fixing retro-reflectorized cautionary, mandatory and informatory sign made of 1.5mm thick Aluminum Sheet/3mm Aluminum Composite Material, face to be fully covered with Class B Type-IV High Intensity Micro Prismatic Grade Sheeting as defined in IRC: 67-2010 having approved messages e.g. letter, numerals, symbols/legend/arrow etc. in Regional and/or Hindi and /or English as per drawing and Technical Specifications for Road and Bridge works (Fourth Revision). The sign plate will be fixed with minimum 6 mm dia aluminum rivets back supported on a mild steel angle iron frame 35x35x5 mm and one vertical Mild Steel post of NB65 Dia Pipe (height from crown level of the road and bottom of the sign board shall not be less than 2.10 m.) firmly fixed to the ground by means of properly designed foundation with M - 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.				
a.	Facility information 650 mm X 900 mm	Nos.	8		
b.	Route marker sign 450mm x 600 mm	Nos.	6		
c.	Triangular 900 mm side	Nos.	4		
2	Providing and laying in situ cement concrete of specified grade of trap / granite /quartzite/ gneiss metal for R.C.C. work for raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, cover blocks compaction and curing etc. (Excluding reinforcement and structural steel) complete, of M30 grade	Cumt	64		
3	Providing and installation of stainless steel bollards of 100 mm dia at the pedestrian refuge islands and pedestrian crossing with excavation, footing. The spacing between the bollards shall be as directed by the Engineer in charge.	Nos	79		

4	Providing and laying Tactile Block of yellow color conforming to IS 13801:1993 (Reaffirmed 1998) of size 250 x 250 x 65 mm on pedestrian pathway as shown in drawing and directed by Eng in charge. The tile should be subjected to a pressure of not less than 14N/sq.mm. Sample must be approved complete as per Additional Technical Specification 10.	Sqmt	132		
5	Providing and fixing heavy duty inter locking concrete Gray / Colour antiskid paving blocks of 80 mm thickness of having a strength of 400 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 40 mm thick including compacting cleaning etc. complete. (prior approval of SE is essential) The contractor suitable provisions for ramps with maximum gradient of 8.33% of at all the junctions/crossings to facilitate the movement of differently abled, aged and children.(as shown below) ; and also provide for suitable turning radius as per the proposed layout showed in section 9. Spec. No.: A directed by Engineer in charge	Sqmt	283		
6	Providing and laying in situ Dry lean cement concrete sub-base of trap metal of specified gradation using ,mixing as per approved design mix, compacting with vibratory roller of minimum 80-100KN static weight to give desired compacted density, providing construction joints, and curing with liquid curing compound and sprinkling water, and covering with moist hessian or ponding of water for 7days including all materials,labour,machinery with all leads and lifts, bailing out water manually, and formwork etc. complete..	Cum	27		
	Add for fanning		1.4		
7	Providing Burnt Brick-on-edge in half brick thick wall masonry with second class bricks of conventional type bricks in cement mortar 1:3 including mild steel longitudinal reinforcement of 2 bars of 6mm diameter / one strips of hoop iron 25 mm X 1.6 mm placed at every third course, properly bent and bonded at ends, scaffolding, raking out joints and watering complete.	Sqmt	397		
8	Providing and laying Rough Shahabad Stone Flooring 25-30 mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete.	Sqmt	53		

9	Filling fresh garden soil & manure in excavated area in 3:1 proportion to a required height of 30 cms, mixing garden soil & manure thoroughly well, leveling, watering on previous night. Planting seeding of required annuals 25 cms apart maintaining till well established by watering, weeding, stirring replacing of casualties, etc. complete	Cumt	119		
10	Planting of plants/tress as may be decided by the engineer in charge of polybag size 16 X 16 & height of 6-8 feet	No	26		
11	Procurement and installation of Bus- Q-Shelters of Stainless Steel Confirming to SS 304 Grade , of Span (6.00 X 1.5 M) with SS Vertical Column & Roof Pipe of 219 MM Diameter , Back Rest Pipe & Seating Pipe is of 101 MM Diameter , Add panel of 4.75 X1.5 MTR with clear polycarbonate of 5 MM thick , Roof truss 8 MM thick with multiwall Polycarbonate sheet 10 MM thick (Grey), with proper lighting as specified by the engineer in charge and solar panels. The bus stop shall have LED display boards, fixed or scrolling on the side and the back, wifi connected display for status of the bus of size 1100X400 mm on both sides The contractor shall provide maintenance, including washing and period servicing for a period of 12 months.	No	5		
12	Procurement and installation of galvanized steel, with polyester coating, dual bin system of 70 litres capacity, with sizes as per manufacturer, and recommendations of the engineer in charge. The bins should be openable completely for easy emptying and cleaning, and should have snap locking system. The contractor shall also provide for foundation for the bins of M25 grade concrete. The manufacture should comply with ISO requirements.	Nos	5		
13	Providing & laying in situ RCC including form work Using concrete Mixer of M20 Grade, of trap stone metal for R.C.C. works in cut off walls/curtain walls including necessary scaffolding, centering compacting by vibrator and finishing curing complete. Spec. No.: As directed by Engineer in charge.	Cumt	27		
14	Providing and fixing in position TMT- Fe 500/Fe-415 bar reinforcement of of TATA TISCON /SAIL/JSW /ESSAR or equivalent make (condirming to IS code) of	MT	0.5		

	various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, arches, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required including cover block etc. complete.				
15	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, racking out joints, watering and scaffolding Complete.	Cumt	53		
16	Providing internal cement plaster 25mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick or stone surfaces, in all positions including scaffolding and curing complete.	Sqmt	106		
17	Providing railing of mild steel post 2 Meter center to center of section 75mm x 75mm x 10mm or equivalent channel section of height 1.05 m above ground surface with minimum anchor length of 30 cm including hold fast of 25 mm diams bar welded at the bottom and concreting of 1:3:6 of size 30 x30 cm with three rows of 40 mm 'B' class G.I. pipes provided at 30 cm centre to centre and including scaffolding and with two coats of anticorrosive paint. etc. complete.	Rmt	265		
18	Providing and laying of hot applied White thermoplastic compound 2.5mm thick, traffic lane edge/centre lines strips 10cm. wide, including reflectorising glass beads @250 gms.persqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes etc.complete with 3 years guarantee	Sqmt	106		
19	Providing and laying of hot applied Yellow thermoplastic compound 2.5mm thick, traffic lane edge/centre lines strips 10cm. wide, including reflectorising glass beads @250 gms.persqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes etc.complete with 3 years guarantee.	Sqmt	106		
20	Providing and painting Zebra painting of pedestrian crossing on the New carriageway with approved road marking paint in two coats etc. complete.(over 10cm.wide patta)	Sqmt	318		
21	Dismantling carefully the structure plain cement concrete, sorting out serviceable materials and stacking, disposing off unserviceable material, up to lead of 50m	Cumt	40		

	etc. Complete				
22	Dismantling carefully the existing structure of Brick masonry, in cement mortar or lime mortar, including sorting out serviceable materials & stacking dismantled materials neatly within 50 Meter lead as directed etc. complete.	Cumt	50		
23	Dismantling carefully reinforced cement concrete including breaking concrete by chiseling wedging, etc. including cutting reinforcement steel bars, sorting out serviceable materials and stacking, disposing off unserviceable material, up to lead of 50m and spreading as directed. etc. Complete.	Cumt	106		
24	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 Meters, stacking serviceable and unserviceable materials separately with Manual means	Cumt	159		
25	Excavation for the roadway in Earth soil of all sorts sand, gravel or soft murum using manual means including dressing section to the required grade, camber, side slopes and loading in a truck and carrying of cut earth to embankment site with all lifts and lead up to 1000 Meter and spreading for embankment or stacking, disposing as directed by Engineer incharge.	Cumt	53		
26	Debris generated due to dismantling of existing pavement /structures shall be suitably reused in proposed construction. Un-utilizable debris shall be suitably disposed at the site identified by the KDMC. Good disposal practices recommended by various agencies/authorities shall be followed.	Cumt	53		
27	Providing & fixing of Cement Concrete Kerb Stone of various grades of size 600 mm width X 325 mm height X 150 mm thick (half batter, bull nose/full batter) manufactured in wet press vacuum dewatering technology plant/ equivalent with face pimple finish for high visibility with excellent quality and finish and edges perfect and sharp grade M-25 including excavation and any soil except rock, laying a leveling course of M-15 grade RMC 100 mm thick to required slope (Inclusive of formwork) jointing in C.M. 1:2 proportion flush to concrete surface painting exposed surface with one coat of primer and 2 coats of first grade road marking paint in the yellow/white/black or any shade as directed (Kerb Stone shall be procured from KDMC registered agencies and decision of Engineer in charge will be final)	Rmt	636		

28	Providing & fixing 0.91 m X 0.61 m Composite rasin Manhole cover with frame (For Footpath) with top coat of decorative granite finish of approved color confirming to relevant grade designation D-2.5 as per IS 1726-1991 and frame shall have rectangular slot for additional grip in concrete with stainless steel wire rope locking arrangement, etc complete, as specified and as directed. (Inspection shall be as per guidelines of IS specifications)	Nos.	8		
29	Supply and installation of Bench With FRP Sitting Slaps of Size Approx 1500L Frame to Frame Side frame is of Cast Iron. Seat & back-rest 1800 long total 10 nos. is of FRP Slap (Rust Proof) of size 65 x 25mm x 1 mm thick & it contain inside m.s rectangular tube 50 x 15mm to give it strength including fixing on ground, MS framing, complete with Priming & Synthetic Enamale paint over metallic surfaces in multi colors including cost of all materials, all taxed conveyence to the work site etc. complete.	Nos.	9		
30	Providing and fixing Advertisement board including LED lights inside of the board & all other fixtures in lightning condition without advertisement. Spec. No.: As directed by Engineer in charge as per site condition	Sqmt	41		

Note:

1. Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the bill of quantities (Refer : ITB Clause 13.2 and GCC Clause 43.3).
2. Unit rates and prices shall be quoted by the bidder in Indian rupee [ITB Clause 14.11.]
3. Where there is a discrepancy between the rate in figures and words, the rates in words will govern.[ITB Clause 27.1(a)].
4. Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern [ITB Clause 27.1(b)].