



# **SURAT MUNICIPAL CORPORATION**

## **CARPET/RECARPET 2026-27**

### **WEST ZONE (RANDER)**

**SHORT TENDER NOTICE NO. Addi. City Engineer/West Zone/04/2026-27**

**[Work no- 04]**

## **VOLUME II - PRICE BID**

**Name of Work:- CONSTRUCTION OF BITUMEN ROAD LAYERS FROM SUB GRADE TO BINDER / WEARING COURSE BY CONTRACTOR'S OWN BATCH MIX TYPE HOT MIX PLANT AND WMM PLANT TO BE INSTALLED WITHIN SURAT CITY LIMIT WITH SENSOR OPERATED PAVER FINISHER ON VARIOUS ROADS HAVING WIDTH BELOW 24.0 MTS. FALLING IN WZ (RANDER) INCL. CONST. / REPAIR OF FOOTPATH, DIVIDER, JUNCTION PAVER BLOCK, GARD STONE, WATER TABLE AND PROV. & LAYING / FIXING OF PAVEMENT MARKING, ROAD STUDS, ROAD SIGNAGES WITH OTHER TRAFFIC SAFETY MEASURES. (Work no- 04)**

Uploading of tender documents	<b>Dt-29/06/2026</b>
Last date of Document downloading	<b>Dt-14/07/2026 UP TO 16.00 Hrs.</b>
Last date of Online bid submission	<b>Dt-14/07/2026 UP TO 18.00 Hrs.</b>
Online query	Bidder shall have to post their queries on E mail address <a href="mailto:exen.wz@suratmunicipal.org">exen.wz@suratmunicipal.org</a> on or before <b>Dt.06/07/2026 up to 11:00 A.M.</b>
Pre bid Meeting	-
Physical submission of EMD, Tender fee.	<b>During Dt.29/06/2026 to Dt.21/07/2026</b> to the office of “Chief Accountant, Surat Municipal Corporation, Shri Tapi Bhavan, Tapi pura , by Speed Post/RPAD only.” In sealed cover duly super scribed with name of work and tender notice no.
Opening of Technical bid (Online)	<b>Probable Dt - 15/07/2026 10:00 hrs. onward</b>

# **SURAT MUNICIPAL CORPORATION**

## **WEST ZONE (RANDER)**

### **TENDER FORM**

#### **F O R**

**NAME OF WORK :- CONSTRUCTION OF BITUMEN ROAD LAYERS FROM SUB GRADE TO BINDER / WEARING COURSE BY CONTRACTOR'S OWN BATCH MIX TYPE HOT MIX PLANT AND WMM PLANT TO BE INSTALLED WITHIN SURAT CITY LIMIT WITH SENSOR OPERATED PAVER FINISHER ON VARIOUS ROADS HAVING WIDTH BELOW 24.0 MTS. FALLING IN WZ (RANDER) INCL. CONST. / REPAIR OF FOOTPATH, DIVIDER, JUNCTION PAVER BLOCK, GARD STONE, WATER TABLE AND PROV. & LAYING / FIXING OF PAVEMENT MARKING, ROAD STUDS, ROAD SIGNAGES WITH OTHER TRAFFIC SAFETY MEASURES. (Work no- 04)**

I/We the undersigned do hereby tender for carrying out the work described in the schedule below subject to the condition annexed.

Should this tender be accepted I/We hereby agree to abide by and to fulfill all the terms and provisions of specifications and conditions of contract annexed hereto so far as they are applicable and default thereof to forfeit and pay to the Municipal Corporation the sum of money mentioned in the said conditions.

The earnest money deposited by me/us with tender may be forfeited to the said Municipal Corporation if I/We do not deposit the full amount of security deposit, in accordance with the clause (1) of the said conditions of contract.

**EXECUTIVE ENGINEER  
WEST ZONE (RANDER)  
SURAT MUNICIPAL CORPORATION.**

SIGNATURE OF THE TENDERER.  
ADDRESS :-

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3	Percent below / above the estimated rates	25

# **SURAT MUNICIPAL CORPORATION**

## **WEST ZONE (RANDER)**

### **PREAMBLE**

**NAME OF WORK :- CONSTRUCTION OF BITUMEN ROAD LAYERS FROM SUB GRADE TO BINDER / WEARING COURSE BY CONTRACTOR'S OWN BATCH MIX TYPE HOT MIX PLANT AND WMM PLANT TO BE INSTALLED WITHIN SURAT CITY LIMIT WITH SENSOR OPERATED PAVER FINISHER ON VARIOUS ROADS HAVING WIDTH BELOW 24.0 MTS. FALLING IN WZ (RANDER) INCL. CONST. / REPAIR OF FOOTPATH, DIVIDER, JUNCTION PAVER BLOCK, GARD STONE, WATER TABLE AND PROV. & LAYING / FIXING OF PAVEMENT MARKING, ROAD STUDS, ROAD SIGNAGES WITH OTHER TRAFFIC SAFETY MEASURES. (Work no- 04)**

### **BILL OF QUANTITIES**

#### **PREAMBLE**

- 1) The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special 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.
- 3) The bidder must quote his rate above / below the estimated rate specified in the Bill of Quantities part for each item of work both in words and figures.
- 4) The rates and prices quoted in Bid in the priced Bill of Quantities, 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 and including remedy of any defects during the Defects Liability Period.
- 5) All rates and sums of money quoted in the Bill of Quantities shall be in Indian Rupees (Rs) rounded to the nearest whole number.
- 6) The whole cost for complying with the provisions of the Contract shall be included in the items provided in the Bill of Quantities.
- 7) 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.
- 8) After adjusting the bid prices as stated above, final bid evaluation will be done as follows:
  - (a) Bidder needs to quote in percentage of rates (above /below as indicated in BOQ) for each part of BOQ. It is mandatory for further evaluation of bids & payment. Payment of items of each part of BOQ shall be made as per quoted percentage for each part of BOQ.

- (b) Successful bidder will be decided based on overall percentage quoted above/below of Total estimated amount as indicated in Vol-II for the complete project.
- 9) General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. Reference to the relevant sections of the contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
  - 10) The method of measurement of completed work for payment shall be in accordance with the requirements as stated in the individual sections of the Technical Specifications.
  - 11) Errors will be corrected by the Employer for any arithmetical errors pursuant to Clause 25 of the Instructions to Bidder.
  - 12) The specification numbers stated in the detailed description of items of works against each item are indicated for guidance of the Bidders. However, any of the specification alluded to the specifications referred to in the Bill of Quantities and / or any other specifications from Vol.3 “Technical Specifications” which in the opinion of the Engineer are applicable for a particular item is deemed to have been included in the scope of item and fully covered by the rates quoted for the items. In case of any discrepancies between provisions stated in the description of individual items and those covered by the technical specifications, the provisions in the description of item shall have preference.
  - 13) Rock is defined as all materials which in the opinion of the Engineer, require blasting or the use of metal wedges and sledge hammers or the use of compressed air drilling for its removal.
  - 14) All concrete items above and including M-15 shall be controlled concrete only.
  - 15) Grouping of items under subheads of different sections is done in Part B BOQ for the convenience. Any item from any section can be considered for operation in any other section as indicated as directed by the Engineer.
  - 16) The units of measurement described in the Bill of Quantities are metric units.
  - 17) Abbreviations used in the Bill of Quantities are as follows:

<b><u>ABBREVIATIONS</u></b>	<b>:</b>	<b>FOR</b>
Rs or RS	:	Indian Rupees
LS or L.S. or SUM	:	Lump Sum
nr. or No. or nos or Nos.	:	Number (s)
RM	:	Running meter
m/mtr	:	Meter
KM or km	:	Kilometer
hct./ha	:	Hectare
M <sup>2</sup> or Sq.m or Sq.m or S.M.	:	Square meter

M <sup>3</sup> or Cum or cu.m or C.M.	:	Cubic meter
CC. or c <sup>3</sup> or cu.cm	:	Cubic centimeter
KG or kg or Kg	:	Kilogram
Mt or tone or T or MT	:	Metric Tone
HP	:	Horse Power
PS	:	Provisional Sum
IRC	:	Indian Roads Congress
MoRT&H Specification(s)	:	Specifications for Road and Bridge Works (last revision) issued by the Ministry of Surface Transport (Roads Wing), Government of India.
ASP	:	Additional Technical Specification
BIS	:	Bureau of Indian Standards
Prov.	:	Provisional
P.O.L. or POL	:	Petrol, Oil and Lubricants
Veh. Month or Veh Month	:	Vehicle month
month	:	Calendar month
hr.	:	Hours
FRL	:	Finished Road Level
Qtl	:	Quintal
Veh. Km	:	Vehicular Kilometer
TS	:	Technical Specification

**EXECUTIVE ENGINEER  
WEST ZONE (RANDER)  
SURAT MUNICIPAL CORPORATION.**

SIGNATURE OF THE TENDERER.  
ADDRESS:-

# SURAT MUNICIPAL CORPORATION

## WEST ZONE (RANDER)

### CARPET/RECARPET 2026-27

**SHORT TENDER NOTICE NO. Addi. City Engineer/West Zone/04/2026-27 [Work no- 04]**

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## BOQ TO BE FILLED BY BIDDER (ONLINE)

**S.O.R.- 2024-25**

**Note:- SOR Rate without GST & With Cess**

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
<b>PART I</b>					
<b>1</b>	<b>Box cutting</b> the road surface to proper slop and camber for road work including a base for road work including removing the excavated stuff depositing on the road side to a slop as directed up to 50.0 mt. Lead.	22750.00	109.41	C.M.	2489077.50
<b>1 (A)</b>	<b>Removing of Existing metalled grouted road/Asphal Road</b> surface upto base course including stacking of material upto lead of 50 mt. (Note : Removing of Existing road shall be Carryout only by Cutter Machine /Hydraulic Bracker)	0.00	288.65	C.M.	0.00
<b>1 (B)</b>	<b>Providing cutting of existings bituminous</b> surface upto suitable depth in line and alignment using Mechanically operator cutter machine before excavating existing surface for utility laying including cost of all type of machinery, fuel, labour, etc and as per direction of Engineer Incharge .	0.00	51.00	R.M.	0.00
<b>2</b>	Excavation of the soil by means of <b>Disc Harrowing or Rotavator</b> , as the case may be, upto 240 mm depth for full width of road and breaking the soil into pieces less than 20 mm etc.by the use of rotavator and as directed by engineer in charge. (200 mm compacted thickness)	13000.00	20.33	C.M.	264290.00
<b>3</b>	Supplying <b>Fly ash</b> including collecting, carting, stacking and spreading the same as per details in tender specification & as	3250.00	572.00	MT	1859000.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	directed by engineer in charge.				
4	Supplying and carting of <b>Hydrated lime</b> (CaO content not less than 70%) and spreading the same with the excavated soil and flyash thoroughly by Disc Harrowing Rotavator or as the case may be, including watering, Tests required to be carried out etc. complete as per details in tender specification & as directed by engineer in charge.	650.00	6952.00	MT	4518800.00
5	<b>Rolling and compaction of Subgrade</b> with 8 T. vibratory roller and filling in depressions which occur during the process as per details in tender specification & as directed by engineer in charge.	13000.00	33.09	CM	430170.00
6	Providing and laying <b>Granular Sub Base</b> (drainage layer) conforming to grading V of Table 400-1 of each layer not exceeding 200mm thickness and compacted thickness as per design & drawing with specified graded stone metal and sand mixed in pugmill and laid with mechanical means spreading with motor grader and compacting with vibratory roller having minimum 80-100 kN static weight to achieve desired density of 98% of MDD including all materials, labour, machinery, tests required to be carried out with all leads and lifts etc., complete as per details in tender specification & as directed by engineer in charge.	10000.00	1488.88	CM	14888800.00
7	Providing and laying <b>Wet Mix Macadam</b> with paver finisher in specified thickness, each layer not exceeding 200 mm compacted thickness including premixing in WMM plant with well graded crushed stone aggregate, with watering and spreading by mechanical means to required profile and compacting by vibratory roller of minimum 80-100 kN static weight to achieve desired density of 98% of MDD including all material, labour, machinery, test with all leads and lifts etc., complete as per details in tender specification & as directed by engineer in charge.	7000.00	1654.66	CM	11582620.00
8	Supplying and applying <b>Slow Setting-1 (SS-I) bitumen emulsion</b> confirming to IS 8887, for application of prime coat over Wet Mix Macadam at the rate of 0.85 kg per Sq.Meter area, including all materials, labour, machinery, test with all leads and lifts etc., complete as per details in tender specification & as directed by engineer in charge.	65000.00	68.67	SM	4463550.00
9	Supplying and applying <b>Rapid Setting-1 (RS-I) bitumen emulsion</b> confirming to IS 8887, for application of Tack coat before application of binder course at the rate of	250000.00	15.16	SM	3790000.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	0.27 kg. per Sq. Meter area, including all materials, labour, machinery, tests required to be carried out with all leads and lifts etc., complete as per details in tender specification & as directed by engineer in charge.				
10	Providing and laying <b>DENSE GRADED BITUMINOUS MACADAM (DBM)</b> as per gradation and bitumen for mixing shall be as arrived from mix design, provided in no case it shall be less than 4.0% for Grade I and 4.5% for Grade II by wt. of total mix as binder by batch mix type hotmix plant and laying by manual paver finisher including consolidation by rollers as specified including providing and operating plant, manual paver and machinery, cost of fuel, oil lubricant and labour charges, tests required to be carried out including cost of aggregate and filler (if found required as per mix design) etc complete (But including cost of providing bitumen )				
(a)	@ 4.50% bitumen (including cost of bitumen)	35000.00	3443.09	MT	120508150.00
(b)	@ 4.00% bitumen (including cost of bitumen)	10000.00	3196.65	MT	31966500.00
(c)	@ 4.50% bitumen (Excluding cost of bitumen)	0.00	1235.23	MT	0.00
(d)	@ 4.00% bitumen (Excluding cost of bitumen)	0.00	1197.86	MT	0.00
11	Supplying and applying <b>Rapid Setting-1 (RS-I) bitumen emulsion</b> confirming to IS 8887, for application of Tack coat before application of wearing course at the rate of 0.25 kg. per Sq. Meter area, including all materials, labor, machinery, tests required to be carried out with all leads and lifts etc., complete as per details in tender specification & as directed by engineer in charge.	220000.00	14.24	SM	3132800.00
12	Providing and laying 25mm to 50mm thick compacted <b>BITUMINOUS CONCRETE (BC)</b> using aggregates as per gradation and percentage of bitumen for mixing shall be as arrived from mix design, provided in no case bitumen percentage shall be less than <b>5.2%</b> for Grade I and <b>5.4%</b> for Grade II by Wt. of total mix as binder by batch mix type hot mix plant and laying by sensor paver finisher including consolidation by rollers as specified including providing and operating plant, sensor paver and machinery, cost of fuel, oil, lubricant and labor charges, tests required to be carried out including cost of aggregate and filler (if found required as				

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	per mix design) etc. complete <b>(Including cost of providing bitumen )</b>				
(a)	@ 5.40% bitumen (including cost of bitumen)	27000.00	3887.49	MT	104962230.00
(b)	@ 5.2% bitumen (including cost of bitumen)	0.00	3788.51	MT	0.00
(c)	@ 5.40% bitumen (Excluding cost of bitumen)	0.00	1188.77	MT	0.00
(d)	@ 5.2% bitumen (Excluding cost of bitumen)	0.00	1190.79	MT	0.00
13	Collecting, carting and stacking <b>Stone Dust</b> on road side as directed and flushing the same on Bituminous surfaces at the rate of 0.30 C.M. per 10 smt. as per details in tender specification & as directed by engineer in charge.	250000.00	2.47	SM	617500.00
13 A	Providing & Laying <b>Bitumen Painting (VG30)</b> by mechanical sprayer on wearing course(BC)surface using bitumen @ 5.0kg. / 10.0 S.M. And spreading stone dust @ 0.03 C.M. / 10.0 S.M. On painted surface including operating cost of contractor's own equipment, fuel, lubricants, carting of required materials, all labor and material cost <b>(including cost of bitumen)</b> preparing surface by brushing with wire brushes, sweeping with mechanical broom / compressed air and finally fanning the cleaned surface with gunny bags to remove all loose dirt etc. completes per details in tender specification & as directed by engineer in charge.	50000.00	33.66	SM	1683000.00
13 B	<b>Bitumen Painting</b> (Excluding cost of bitumen)	0.00	8.67	SM	0.00
14	<b>Preparing Surfaces</b> by excavating with spades, scraping with shovel, brushing with wire brushes for removing caked mud up to 150mm thick etc. sweeping with brooms and finally fanning the cleaned surface with gunny bags to remove all loose dirt etc. including carting of excavated stuff from site.including all labour & equipment.	250000.00	3.55	SM	887500.00
15	<b>Picking of the bituminous</b> surface using JCB excavator or by any mechanical means, cleaning and removal of loose and unsuitable material on the road surface including cost of fuel, oil, lubricant, labour charges and disposal of loose unsuitable material from site to the disposal site as directed by Engineer in charge.	2000.00	4.81	SM	9620.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
16	<b>Scarifying</b> the graveled macadam, bituminous macadam surface 6 cm. to 10 cm. deep including stacking the useful materials and disposing remaining stuff including loading and unloading and carting the same within city limit as directed by Engineer in charge.	30000.00	42.76	SM	1282800.00
17	Providing, supplying & Fixing heavy duty I.S.I mark <b>RCC precast machinehole frame with cover</b> at site as per design for circular machinehole including labour charge etc., Complete as per details in tender specification & as directed by engineer in charge.	500.00	2294.00	No.	1147000.00
18	<b>Raising &amp; Lowering</b> Eixsiting Machineholes & Inlet chamber (with frames) of drainage, strom drainage, sever trap chamber, scraper machinehole frame & cover any utility services up to newly carpeted/recarpeted road surface including both of plain cement concrete ordinary grade 1:1.5:3.(1 Part of cement : 1.5 Part of sand : 3 part of course aggregate) The inside & outside surface of chamber shall be plastered in cement mortar 1:3 (1 part of Cement and 3 part of sand) include lobour required to carry out the work. and cleaning the bitumen on the top surface & removing road material from machinehole etc. complete.	1150.00	573.66	No.	659709.00
18 (A)	<b>Raising &amp; Lowering</b> up to 10 cm inlet Chamber to the required level upto FRL of DBM/BCIncluding all Materials, formwork including removing existing Inlet Chamber frame Cover and Fixing Existing Inlet Chamber frame Cover and Removing Existing Material from Inlate Chamber (Add or Deduct Rs. 568.00 per 0.10 mt depth increase or decrease)	760.00	701.00	No.	532760.00
18 (B)	Providing and fixing <b>RCC pre cast Inlet Chamber Cover</b> of M-30 grade as per Drawing and Specifications.				
i	size 750 mm x 600 mm	100.00	1661.00	No.	166100.00
ii	size 600 mm x 450 mm	30.00	722.00	No.	21660.00
18 (C)	Providing and fixing <b>RCC pre cast Inlet Chamber Frame</b> of M-30 grade as per Drawing and Specifications.				
i	size 750 mm x 600 mm	100.00	1038.00	No.	103800.00
ii	size 600 mm x 450 mm	30.00	529.00	No.	15870.00
19	Carting and conveying of bitumen from refinery / any depot of oil companies to Surat including loading & unloading in suitable tanks/drums etc. Complete (without octroi charge applicable from time to time).				

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	[1] From Koyali and Savli (vadodara)	0.00	918.96	MT	0.00
	[2] From Vapi	0.00	755.34	MT	0.00
	[3] From Mumbai	0.00	1426.54	MT	0.00
	[4] From Hazira	0.00	265.84	MT	0.00
20(i)	Providing <b>SEMI DENSE BITUMINOUS CONCRETE (SDBC)</b> with aggregates as per gradation and bitumen for mixing @ 5.50% by Wt. of total mix as binder by batch mix type hot mix plant including cost of fuel, oil, lubricant and labour charges tests required to be carriedout including cost of aggregates and including cost of bitumen.	2000.00	3727.91	MT	7455820.00
(ii)	<b>SDBC</b> (Excluding cost of bitumen)	0.00	980.71	MT	0.00
20 (A)	Providing and filling <b>Yellow soil/Mixed soil</b> with necessary dumping filling of the trenches of each layer not exceeding 150mm depth of not including watering, raming,consolidation,labour charge & tests required to be carriedout etc., Complete	10000.00	301.78	CM	3017800.00
20 (B)	Earth work in embankment for subgrade and shoulders by using mechanical means with approved material <b>AS HARD MURRUM/QUARRY SPALL</b> having 4 days soaked CBR equal to or more than 8%, laying in layers not exceeding 250 mm loose, breaking clods, dressing to the required lines, curves, grades, watering to OMC and compacting to 97% modified Proctor density with vibratory rollers having minimum 80 - 100 KN staticweight including all labour, equipments charges & tests required to be carriedout with all leads and lifts etc. complete.	10000.00	1116.41	CM	11164100.00
	<b>Total of Part-I</b>				<b>333621026.50</b>
	<b>PART II</b>				
21	<b>FOOTPATH, KERB &amp; DIVIDER</b>				
21.1	<b>Excavating the road surface</b> upto required depth including removing the excavated materials and depositing on the road side upto 50 mt. lead etc. complete. Including labour, machinery & equipments require to complete this item and as detailed in tender specification & as directed by engineer in charge.	500.00	109.41	C.M.	54705.00
21.2	<b>Dismantling of structures</b> of roadways, including disposing off unserviceable material free of cost which will be the ownrship of contractor or as directed by the Engineer with all leads and lift etc. Including labour, machinery & equipments required to complete this item etc.				

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	(A) R.C.C. Pardi	0.00	1110.75	C.M.	0.00
	(B) Removing existing Kotah Stone	200.00	50.11	S.M.	10022.00
	(C) Brick / Stone Masonary	500.00	577.92	C.M.	288960.00
	(D) Plain Concrete	0.00	639.72	C.M.	0.00
	(E) Bituminious Pavement	0.00	288.65	C.M.	0.00
	(F) Non Bituminious Pavement	0.00	155.25	C.M.	0.00
21.3	<b>Preparation of Subgrade</b> with compacting, levelling and consolidation of subgrade with mini roller/plate vibrator machine including watering and filling in depression which occur during the process. including labour,machinery, equipments required to execute this item etc. complete as detailed in tender specification & as directed by engineer in charge.	2500.00	5.03	S.M.	12575.00
21.4	Providing and laying <b>Cement Concrete 1:5:10</b> (1 cement : 5 coarse sand : 10 graded stone aggregate of 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete in vertical and horizontal fins upto floor two.including labour,machinery, equipments required to execute this item etc. complete.	150.00	2606.92	C.M.	391038.00
21.5	Supplying and filling fine sand ( <b>Pana/Stone Dust/Crush sand</b> ) in 25/75 mm (Avg.) compacted thickness over the base including necessary compaction, watering etc. complete. item includes levelling by using mini rollar/plat vibrator machine and as per details in tender specification & as directed by engineer in charge.	250.00	480.00	C.M.	120000.00
21.6	Providing 100 mm thick readymade <b>C.C. kerb</b> of strength M20 (Size 300 x 380 mm) purchased from S.M.C.'s approved paver block manufacturer and setting in line, level and in truly vertical position, including filling joints 10mm width in C.M. 1:1 (1 Part of cement 1 part of coarse sand) smooth pointing in C.M. 1:1 (1 Part of cement : 1 Part of stone dust) including watering, test required to be carriedout etc. complete and as directed by Engineer-in-charge). including watering, labour, tests required to be carried out, machinery, equipments required to execute this item etc. complete.				
A	For regular edge of footpath	1000.00	228.00	R.M.	228000.00
B	For roundling at the edge of footpath (For fanning portion)	250.00	274.00	R.M.	68500.00
21.7	Providing and fixing interlocking type Rubber Moulded cement concrete <b>paver block</b> of approved shape, design and colour having 60 mm thickness (M-35), purchased from SMC's approved				

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	paverblock manufacture only and fixing on fine sand bedding. Item includes levelling by using plate vibrator compactor machine. Item also includes all material colour, equipments, tools, plants, curing, watering, cleaning, test required to be carried out etc. complete.				
A	With Colour	500.00	524.00	S.M.	262000.00
B	Without Colour	2000.00	524.00	S.M.	1048000.00
C	With Colour (Produced by C&D waste)	0.00	408.50	S.M.	0.00
D	Without Colour (Produced by C&D waste)	0.00	376.25	S.M.	0.00
	<b>As per CE note no.:1910, 4.7.2022</b> <b>1 Recycle Product produced by C&amp;D waste project plant (Max. usage 20% of total requirement. Refer this note for details.)</b>				
21.8	Providing and setting 50 to 60 mm thick <b>rouge kotah stone water table</b> in line, level and in required gradient including 25 mm thick bedding in C.M. 1:6 (1 Part of cement : 6 Part of coarse sand) with sufficient ramming consolidation. Providing joints in C.M. 1:3 (1 Part of cement : 3 Part coarse sand) and smooth pointing in C.M. 1:1 (1 Part of Cement, 1 Part of coarse sand) including watering etc. complete and as per details in tender specification & as directed by engineer in charge.				
A	Size : 2'0" x 1'0" (600mm x 300mm)	0.00	119.02	R.M.	0.00
B	Size : 1' x 1'(40 to 50 mm thick)	0.00	125.88	R.M.	0.00
21.9	Providing and fixing in position readymade cement concrete <b>Water Drain Slab ( 300 x 300 x 80 mm ) M-30 Grade</b> with all labour, material, testing charge etc. complete as per details in tender specification & as directed by engineer in charge.	3000.00	189.00	R.M.	567000.00
(A)	Readymade water drain channel (600x300x100)	0.00	353.00	R.M.	0.00
21.10	Supplying and fixing <b>RCC collar</b> (300 mm dia) for tree plantation including all taxes, carting, loading, unloading etc. complete with all labour, material charge etc. complete as per details in tender specification & as directed by engineer in charge.	0.00	60.00	Nos.	0.00
A	Tree guard ID 500mm, 800 x 800 x 75 mm (Type D) ( set 4)	0.00	672.00	Nos.	0.00
21.11	Providing and applying two coats of <b>synthetic enamel paint</b> including primer to kerb as per technical specifications and as directed by Engineer-in-charge.	100.00	90.00	S.M.	9000.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
21.12	<b>Removing existing kotah stone</b> flooring in mortar and vertical stone kerbing including stacking of serviceable material carting at SMC store disposal of unserviceable material with all lead and lift.	500.00	50.11	S.M.	25055.00
21.13	<b>Removing and resetting existing rough kotah stone water table</b> for footpath in line, level and proper gradient including 25 mm thick bedding in CM 1:6 (1 Part of Cement, 6 Part of coarse sand) with sufficient ramming, consolidation, Providing joints in C.M. 1:3 (1 Cement : 3 Coarse sand) and smooth pointing in C.M. 1:1 (1 Cement : 1 Coarse sand) including watering etc. complete as per details in tender specification & as directed by engineer in charge.	200.00	63.89	R.M.	12778.00
21.13 (A)	<b>Removing and resetting Existing paver block</b> , including all watering leveling, cleaning, labour & Equipments chagres etc. complete as per details in tender specification & as directed by engineer in charge.	500.00	102.00	S.M.	51000.00
21.14	<b>Excavation for 27 cm wide and 25 cm deep Gishi</b> in Ashpalt Bitumeneous road for erection of concrete wall as a road divider and removal of all excavated materials / asphalts etc. from the site as per details in tender specification & as directed by engineer in charge at the cost of contractor.	2000.00	29.25	R.M.	58500.00
21.15	Providing and laying <b>cement concrete cast-in-situ/Precast kerb</b> in M-20 grade as per drawing and as per details in tender specification & as directed by engineer in charge with all leads, lifts, loding & unloading etc. complete.				
	( i ) <b>775mm height cement concrete</b> M-20 grade cast-in-situ/Precast Kerbs & Fixing for Median as per drawing and as per details in tender specification & as directed by engineer in charge.	1500.00	1091.00	R.M.	1636500.00
	( ii ) <b>0.15 (th.) *0.30(l)* 0.48(Ht.) mt.</b> in size cement concrete M-20 grade pre cast Kerbs & Fixing as per drawing Purchsed from SMC's approved manufactures and as per details in tender specification & as directed by engineer in charge.	800.00	380.00	R.M.	304000.00
21.16	Removing & Restarting existing ready made C.C.Kerb of strength of required size & thickness in line, level and truly vertical position, including filling joints in C.M.1:1 (1part of cement 1part of coarse sand) smooth pointing in C.M.1:1	100.00	56.00	R.M	5600.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
21.17	Providing and laying <b>cement concrete cast-in-situ Guard Stone (1:2:4)</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) including cost of form work including, curing labour,machinery, equipments required to execute this item etc. complete. Size :- <b>(750 X 350 X 400)</b>	50.00	564.00	R.M.	28200.00
21.18	Providing and laying <b>cement concrete cast-in-situ Guard Stone (1:1/2:3)</b> (1 cement : 1/2 coarse sand : 3 graded stoneaggregate of 20 mm nominal size) including cost of form work including, curing labour,machinery, equipments required toexecute this item etc. complete. Size :- <b>(600 x 225 x 400)</b>	50.00	395.00	R.M.	19750.00
21.19	Providing and fixing in the carriageway Interlocking concrete pavers uni-shape (monolithic single layer precast concrete blocks) of any specified colour / size & shape, with approved pattern etc. of 100 mm thick having average crushing strength of 50 N/mm2 on average thickness of 45 mm uniformly graded river sand cushioning with properly compacted with mechanical compactor with required level, grade and camber etc. complete as directed by Engineer-In-charge. (Excluding Sand bed) (At Junctions)	500.00	965.00	S.M.	482500.00
21.20	Providing and fixing in the carriageway Interlocking concrete pavers uni-shape (monolithic single layer precast concrete blocks) of any specified colour / size & shape, with approved pattern etc. of 80 mm thick having average crushing strength of 50 N/mm2 on average thickness of 45 mm uniformly graded river sand cushioning with properly compacted with mechanical compactor with required level, grade and camber etc. complete as directed by Engineer-In-charge. (Excluding Sand bed) (At Junctions)	500.00	714.00	S.M.	357000.00
21.21	Providing and laying cement concrete 1:2:4 ( 1 part of cement, 2 part of coarse sand, 4 part of graded stone aggregate of 20 mm nominal size) in proper line and level including compaction, curing form work but excluding steel reinforcement etc. complete.	100.00	3637.34	C.M.	363734.00
<b>Total of Part-II</b>					<b>6404417.00</b>

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
<b>PART III</b>					
<b>22</b>	<b>PAVEMENT MARKING &amp; CAT EYE</b>				
22.1	Providing and applying <b>2.50 mm thick hot applied thermoplastic</b> road marking of white / yellow colour on bituminous / concrete surface with fully automatic machines as per detailed drawings / engineers instructions for Lane markings, edge markings / arrows including materials, labour charges, tests required to be carried out etc. complete as per details in tender specification & as directed by engineer in charge.	5000.00	367.72	S.M.	1838600.00
a	For <b>Edge line</b> marking of 15cm width				
b	For <b>Center Line</b> marking of 10cm width				
c	For pedestrian markigns at junctions ( <b>Zebra Crossing</b> )				
d	For pedestrian markigns at junctions ( <b>STOP LINE</b> )				
e	<b>Letter</b> markigns at junctions				
f	Direction <b>arrow</b> markigns at junctions				
g	For <b>lane line</b> marking of 15cm width				
22.2	Supplying of <b>Molded Shank Raised Pavement Markers made of polycarbonate and ABS molded body and reflective panels</b> with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 100 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. (3M or Equivalent Brand)	1200	217.40	Nos.	260880.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
22.3	<b>Solar Stud:</b> Supplying of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0 C to 70 C. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1 Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively. The weight of the marker shall not exceed 0.5 Kilograms. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and complete as directed by the engineer. (3M or Equivalent Brand)	0	2088.68	Nos.	0.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
22.4	Flexible Median Marker:- Providing and Fixing of Flexible Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with property of flexibility to provide high durability. The dimension of flexible median marker should not exceed 18.4cm in height (including shank height), 12.5cm in width, 0.65cm in thickness and shank depth shall be 3.4cm. the body structure shall be rounded at all its corners and edges. the plastic used for molding the flexible median marker should survive impact load 5kg continuously for 750 times at room temperature. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The median marker shall have flame like shaped body with, fluorescent yellow colour retro-reflective sheeting of size not less than 90cm square, with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC-67 2012 and ASTM D4956-09 type XI specifications reflective values. The retro-reflective sheeting shall be one or both sides of the flexible median marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The flexible median marker shall be fixed by a combination of adhesive and grouting as recommended by manufacturer and Engineer in charge.	0	271.69	Nos.	0.00
	<b>Total of Part-III</b>				<b>2099480.00</b>
	<b>PART IV</b>				
<b>23</b>	<b>ROAD SIGNAGES</b>				
23.1	<b>Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phosphating process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with High Intensity Prismatic Grade retro reflective sheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.6mtr long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with best quality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in</b>	10	3906.19	Nos.	39061.90

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg including excavation, curing etc. complete under the supervision of engineer in charge. A warranty for 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting				
23.2	<b>Informatory Signs :- Providing and fixing sign boards made out of 2 mm aluminium sheet; size 80 x 60 cms.</b> rectangle as per design of IRC 67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with retro reflective sheeting as per latest M.O.S.T. Specifications; 3.1 m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm as required; painted with best quality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg. including excavation, curing etc. complete under the supervision of engineer in charge. (B) High Intensity Grade.	10	3990.64	Nos.	39906.40
23.3	<b>Regulatory/ Mandatory Signs :- Providing and fixing sign boards made out of 2 mm aluminium sheet; size 60 cms. diameter circle</b> as per design of IRC 67-1977. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with retro reflective sheeting as per latest M.O.S.T. Specifications; 3.1 m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm as required; painted with best quality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg. including excavation, curing etc. complete under the supervision of engineer in charge. (B) High Intensity Grade.	10	3540.12	Nos.	35401.20

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
23.4	<b>Direction sign (Junction board) :- Providing and fixing sign boards made out of 2 mm aluminium sheet; size 244 x 122 cms.</b> rectangle as per design of IRC 67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with retro reflectivesheeting as per latest M.O.S.T. Specifications; Letters and numerals should be as per IRC -30-1968, 3.1 m long ( 2 nos ) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5 mm, 75 x 75 x 6 mm as required; painted with best quality epoxy coatings in black and white bends. The details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc. complete under the supervision of engineer in charge. (B) High Intensity Grade.	0	21287.51	Nos.	0.00
23.5	Providing Supplying & Fixing <b>jumbo swiss type traffic bollard</b> made out of 1.5 mm thick CRC sheet in conical shape having 188cms, bottom dia 30cms, top dia 22cms, with top circular direction plate of 30cms dia for arrow fabricated as per attached drawing and coated with black epoxy powder coating and Retro reflectorised three yellow strip 15cms wide and arrow Micro Prismatic grade sheeting as per ASTM 4956-09 Type-XI Fixing with cement concrete M-25 grade, Foundation size 30cm*30cm*35cm as per the instruction of Engineer in charge.	10	3729.97	Nos.	37299.70
<b>Total of Part-IV</b>					<b>151669.20</b>
<b>PART-V</b>					
<b>24</b>	<b>TRAFFIC SAFETY ,TRAFFIC CONTROL AND SURVEY</b>				
24.1	<b>Providing and installing barricades</b> including supplying, painting with flourscent paint/white paint and fixing CGI sheet 24 SWG of required height as per site condition and M.S. angle of required size to restrain at 2.5 mt. c/c and dismantalling the same after completion of work and allowing for movement of traffic as per drawing and as per instruction from engineer in charge	100.00	124.72	S.M.	12472.00
24.1 (A)	<b>Reuse of the above barricades</b> in item 24.1 for traffic safety purpose without procuring new barricades.	100.00	28.32	S.M.	2832.00
24.2	Provision and fixing of <b>traffic signs</b> for limited period at suitable locations as per requirement during the construction in	10	1800.00	Nos.	18000.00

ITEM NO.	ITEM DESCRIPTION	QTY	RATE IN RS	PER	AMOUNT IN RS
	construction zone comprising of warning zone, approach transition zone, working zone and terminal transition zone with a minimum distance of 60 cm from the edge of the kerb in case of kerbed roads and 2 to 3 m from the edge of the carriageway in case of un-kerbed roads, the bottom edge of the lowest sign plate to be not less than 2 m above the road level, fixed on 60 mm x 60 mm x 6 mm angle iron post, founded and installed as per approved design and drawings, removed and disposed of after completion of construction work, all as per IRC:SP:55-2001.				
24.3	Provision of <b>metal drum/empty bitumen drum/delineator, 300 mm</b> in diameter, 800 mm high, filled with earth for stability, painted in circumferential strips of alternate black and white 100 mm wide fitted with reflectors 3 Nos of 7.5 cm dia, all as per IRC:SP:55- 2001.	5	286.00	Nos.	1430.00
24.4	Carrying out <b>Topographic survey</b> in full width of road showing location of inlet chamber, machinehole of storm line & drainage line with total station instrument etc. on existing road along with level survey of road for road profile at minimum 15 mt. class interval with chainage markings on site including C-Section, L-Section & centre line marking of roads as per instruction of engineer in charge.	30.000	8800.00	Km	264000.00
24.5	Supplying and fixing the necessary <b>blinkers, delineators, traffic cones</b> , etc as per site requirement and as directed by engineer in charge				
	Delineators	5	850.00	Nos.	4250.00
	Traffic cones, Etc.	100	501.00	Nos.	50100.00
	Blinkers	5	3850.00	Nos.	19250.00
24.6	Provision of <b>Solar Blinkers</b> For barricading for limited period at suitable locations as per requirement during the construction in construction zone comprising of warning zone, approach transition zone, working zone and terminal transition zone Etc.	0	248.00	Nos.	0.00
<b>Total of Part-V</b>					<b>372334.00</b>

PART-VI					
25	MILLING				
25.1	Milling the existing bituminous pavement up to a depth of <b>50mm by milling machine</b> in a single cutting depth, to make a uniform surface without disturbing the base including diversion of traffic, removing milled materials and disposal of milled material to an approved dumping yard (within 12 km lead) including loading and unloading, all leads and lift, fuel, lubricant charges etc complete.	15000.00	<b>67.86</b>	S.M.	1017900.00
25.2	Milling the existing bituminous pavement for a depth more than <b>50 mm but up to 100 mm</b> by milling machine in a single cutting depth to make a uniform surface without disturbing the base including diversion of traffic, removing milled materials and disposal of milled material to an approved dumping yard (within 12 km lead) including loading and unloading, all leads and lift, fuel, lubricant charges etc complete.				
	(A) 51 mm -- 60 mm	15000.00	<b>73.78</b>	S.M.	1106700.00
	(B) 61 mm -- 70 mm	15000.00	<b>79.69</b>	S.M.	1195350.00
	(C) 71 mm -- 80 mm	15000.00	<b>85.61</b>	S.M.	1284150.00
	(D) 81 mm -- 90 mm	10000.00	<b>91.52</b>	S.M.	915200.00
	(E) 91 mm -- 100 mm	10000.00	<b>97.44</b>	S.M.	974400.00
25.3	Milling the existing bituminous pavement for a <b>depth more than 100 mm but up to 200 mm</b> by milling machine in double cutting depth to make a uniform surface without disturbing the base including diversion of traffic, removing milled materials and disposal of milled material to an approved dumping yard (within 12 km lead) including loading and unloading, all leads and lift, fuel, lubricant charges etc complete.				
	(A) 101 mm -- 110 mm	1000.00	<b>109.27</b>	S.M.	109270.00
	(B) 111 mm -- 120 mm	1000.00	<b>121.10</b>	S.M.	121100.00
	(C) 121 mm -- 130 mm	0.00	<b>132.93</b>	S.M.	0.00
	(D) 131 mm -- 140 mm	0.00	<b>144.77</b>	S.M.	0.00
	(E) 141 mm -- 150 mm	0.00	<b>156.60</b>	S.M.	0.00
	(F) 151 mm -- 160 mm	0.00	<b>168.43</b>	S.M.	0.00
	(G) 161 mm -- 170 mm	0.00	<b>180.26</b>	S.M.	0.00
	(H) 171 mm -- 180 mm	0.00	<b>192.09</b>	S.M.	0.00
	(I) 181 mm -- 190 mm	0.00	<b>203.92</b>	S.M.	0.00
	(J) 191 mm -- 200 mm	0.00	<b>215.75</b>	S.M.	0.00
25.4	Milling the existing bituminous pavement for a depth more than <b>200 mm but up to 300 mm</b> by milling machine in three cutting depth to make a uniform surface without disturbing the base including				

	diversion of traffic, removing milled materials and disposal of milled material to an approved dumping yard (within 12 km lead) including loading and unloading, all leads and lift, fuel, lubricant charges etc complete.				
	(A) 201 mm -- 210 mm	0.00	<b>227.59</b>	S.M.	0.00
	(B) 211 mm -- 220 mm	0.00	<b>239.42</b>	S.M.	0.00
	(C) 221 mm -- 230 mm	0.00	<b>251.25</b>	S.M.	0.00
	(D) 231 mm -- 240 mm	0.00	<b>263.08</b>	S.M.	0.00
	(E) 241 mm -- 250 mm	0.00	<b>274.91</b>	S.M.	0.00
	(F) 251 mm -- 260 mm	0.00	<b>286.74</b>	S.M.	0.00
	(G) 261 mm -- 270 mm	0.00	<b>298.57</b>	S.M.	0.00
	(H) 271 mm -- 280 mm	0.00	<b>310.41</b>	S.M.	0.00
	(I) 281 mm -- 290 mm	0.00	<b>322.24</b>	S.M.	0.00
	(J) 291 mm -- 300 mm	0.00	<b>334.07</b>	S.M.	0.00
25.5	Milling the existing concrete pavement for a <b>depth up to 50 mm</b> by milling machine including diversion of traffic, removing milled materials and disposal of milled material to an approved dumping yard (within 12 km lead) including loading and unloading, all leads and lift, fuel, lubricant charges etc complete.	0.00	<b>176.38</b>	S.M.	0.00
	<b>Total of Part-VI</b>				<b>6724070.00</b>
<b>TOTAL OF PART I + PART II + PART III + PART IV + PART V + PART VI =</b>					<b>34,93,72,996.70</b>

SIGNATURE OF THE CONTRACTOR

**EXECUTIVE ENGINEER  
WEST ZONE (RANDER)  
SURAT MUNICIPAL CORPORATION.**