

South Bengal State Transport Corporation

(A Government of West Bengal Undertaking)

Dr.B.C.Roy Avenue, Durgapur-713201, Dist.:-Burdwan.

TENDER DOCUMENTS OF NEW BUS

Tender no & Date		SBSTC/E-TND/Fully Built Bus/16-17 Dt. 13.08.2016
Name of the work		54 +1 Seater(3*2) 6 cyl. BS-III , Type III Fully Built (Diesel) Semi Deluxe Bus (SDX) 42 nos.
Specification		Emission Variant : BS III Wheel Base : 5334 – 5340 mm Horse Power : 130 to 160 HP, 6 cylinder engine Over all Chassis Length : 10.5 m to 11m Engine : BS III Diesel Engine Gear Box : At least 5 forward + 1 reverse gear Tyres : 10.00*20 radial, 6 + 1 (Spare wheel) Suspension : Semi-elliptical laminated Spring. System Voltage : 24 Volt Battery : 2 nos. 12V 150AH Fuel Tank : 240 – 250 lts. Capacity Braking System : Air Brake Purpose : Bus should be TYPE APPROVED as per AIS 052
Availability of Tender Documents		From the date of advertisement till 06.09.2016.
Last date for submission of Tender Document, both Technical & Financial bids		06.09.2016 up to 14.00 hrs
Opening of Technical bids		06.09.2016 after 14.30 hrs.
Opening of Financial bids		Will be intimated latter on
Address of Communication		Managing Director, South Bengal State Transport Corporation, Dr. B. C. Roy Avenue, Durgapur, 713201. Email Id:- sbstcpurchase@gmail.com & sbstcmd@gmail.com.
Content of the Tender Document		Eligibility criteria for the Bidders:- 1. Technical Bids. 2. Financial Bids.

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TECHNICAL BID

(I) ELIGIBILITY CRITERIA FOR THE BIDDER

Copies of the following documents are to be enclosed with the technical bid

1. Bidder should have experience of supplying new bus to different state transport undertaking. Supporting paper to be enclosed. Bidder should have AIS052 accreditation and relevant paper in this respect to be uploaded.
2. An application fees of Rs. 35,000.00 (Thirty five thousand) non refundable in the form of Demand Draft in favour of South Bengal State Transport Corporation to be submitted. Scan Copy of the same to be uploaded.
3. Bidder should submit the Copy of PAN Card, Trade License, Income Tax Return for last 3 years, VAT Certificate.
4. In case any Agency of Bus Manufacturer participates in the Bid requisite authorization letter certifying rates from the Principal to be submitted. The warranty norms of the principal will be applicable and due certificate regarding quality is also to be obtained from the principal. All supporting paper to be enclosed.
5. Bidder should submit no deviation certificate from the Specification as prescribed by the Corporation.
6. Warranty should be for a minimum period of TWO years.
7. Bidder should give an undertaking for the availability of spares parts and providing the after sales service of the Buses for which they are participating in the bid.
8. A Bank Guarantee equivalent to 10% of total Order Value is to be submitted by the successful Bidder on whom the order will be placed. The same Bank Guarantee will be kept withheld till the expiry of the warranty period.
9. The hard copies of all relevant documents to be submitted in the tender box kept in the office of The Managing Director, South Bengal State Transport Corporation, Dr. B. C. Roy Avenue, Durgapur, 713201 by 06.09.2016 within 14.00 hrs.

(II) GENERAL TERMS & CONDITIONS FOR THE BIDDER

1. Tender should be in the prescribed format obtained online from the e-tender portal www.wbtenders.gov.in and it should be submitted as per the instruction given in **para (IV)** of this tender document.

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2. SBSTC does not take any responsibility for the delay caused due to non availability of Internet connection ,Internet traffic jam etc. for online bids.
3. SBSTC reserves the right either to accept or reject any or all the tenders at any time to award of contract.
4. SBSTC reserves the right to choose any / all Buses and change the quantity required.
5. The bidder must specifically mention the warranty period which should not be less than TWO years.
6. The successful bidder shall be intimated of his selection for the award of contract. Hence no enquiry in this regard will be encouraged.
7. The rates quoted in the Financial Bid shall be inclusive of all Taxes levied by the appropriate authorities, Insurance , Transportation , loading & unloading charges and other charges, up to delivery point.
8. The rate quoted in the Financial Bid shall be valid for 180 days from the date of opening of Financial Bid.
9. If it is found that the supplied materials are not as per specifications, the supply made will be rejected and the order may be cancelled.
10. The bidder shall be solely responsible for the payment of sales Tax and other taxes, if any levied by the Government and other local bodies.
11. In exceptional circumstances, SBSTC may solicit the bidders consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by e-mail or fax).
12. Online Bid must be submitted not later than the specified time & date.
13. The SBSTC may, at its discretion, extend the deadline for submission of bids by amending the bid documents.
14. During evaluation of Technical bids, SBSTC may, at its discretion, ask the bidder for clarification of his bid.
15. SBSTC will scrutinize the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished,

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whether the documents have been properly signed, and whether the bids are generally in order.

16. SBSTC, reserves the right at the time of award of contract to increase or decrease the quantity of goods originally specified in the schedule of requirements without any change in unit price or other terms and conditions.

17. SBSTC, reserves the right to allot the jobs to the successful bidder / bidders in phases at L1 rate.

18. SBSTC reserves the right to place order to the successful bidders as per its discretion.

19. The Managing Director, SBSTC, will act as the Arbitrator in case of any disputes. The jurisdiction will be at Durgapur.

20. Delivery Schedule:- Delivery Schedule:-

Delivery of complete buses should be done within 60 working days which excludes calendar holidays from the placement of order. If the completed buses is delivered late i.e. beyond 60 working days, it will warrant penalty for an amount of Rs. 1000.00 per day of late delivery for TEN days and beyond 10 days it will be Rs.2000.00 per day.

21. Payment Terms:- 100% payment will be done after receipt of completed bus body on receipt of three copies of tax invoices, agreement copies, bank guarantees and other related papers completed in all respect.

22. The taxes and duties will be applicable as prevailing at the time of delivery within the delivery schedule.

Delivery of buses should be done within 60 working days from the date of receipt of the Purchase Order. Corporation reserves the right to cancel the Purchase Order in case the delay is more than the specified period.

23. Financial bid of only those bidders will be opened who are found to have fulfilled all the criteria as specified in Technical bid.

24. Price BID/BOQ (Financial bid)

“Financial Bid” shall contain the financial bids with the base rate per accounting inclusive of transportation, installation charges, freight charges, VAT, Excise duty and entry tax (wherever applicable) to be quoted. Bidders are required to fill online only in the **BOQ Folder**, further bidders are required to explain the taxes/levies etc. as mentioned in the **Price Bid** and upload a

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scan copy of write ups on taxes/levies etc in the **Misc Folder**. Separate Bids to be done for the **New Addition** as mentioned in Sl. no **23 of Bus Specification**

25. Order may be placed to the selected bidder in instalments. However in case the performance of buses of any specific make is not found satisfactory; Corporation reserves the right to make its choice from the next bidder at L1 rates.

(III) SPECIFICATION FOR NEW BUS (FOR TENDER)

S. No.	DESCRIPTION	SPECIFICATIONS
	Bus characteristics	TYPE III SDX BUS
1.	Propulsion system	ICE
2.	Fuel-options	Fuel to be compatible with propulsion system & prescribed emission norms
3.	Engine	125-130H.P
3.1	Emission norms	BS III
3.2	Engine management	Engine oil pressure, engine coolant temperature, engine speed in RPM, vehicle speed, diagnostic details message (engine specific)
3.3	Engine operational requirements	Engine should be able to operate efficiently at ambient temperatures of approximately 0° to 50° C, humidity level from 5% to 100%, and altitude levels of up to 2000 meters, generally operating in the semi arid zone/hilly region prevailing in the area.
3.4	Engine location	Front
3.5	Transmission	
a	Automatic with torque convertor. Neutral during stops	Manual - synchromesh - forward speeds (minimum 5) & constant mesh on reverse gear
b	Automated manual	
c	Manual - synchromesh - forward speeds (minimum 5) & constant mesh on reverse gear	
4.	Operational safety	Transmission system to be fitted with a mechanism which makes it possible to engage reverse gear only when vehicle is stationary (applicable for automatic & automatic manual transmission)
5.	Clutch (where applicable)	Dry, single plate, power assisted operation
5.1	Rear axle	Single reduction, hypoid gears, full floating axle shafts with optimal gear ratios suitable for urban operations
5.2	Front axle	Heavy duty reverse Elliot type axle suitable for various floor heights

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6.	Steering system	Hydraulic power steering with height and angle adjustment
7.	Suspension system	Semi elliptical leaf spring at front & rear, Hydraulic double acting telescopic type shock absorber at front & rear
7.1	Anti roll bars/stabilizers (Optional in case of independent suspension)	Both front and rear
7.2	Shock absorbers	Hydraulic double acting 2 at front & 2/4 at rear
8.	Braking system	Dual circuit full air brakes, . Graduated hand controlled, spring actuated parking brakes acting on rear wheels.
8.1	Anti skid anti brake locking system (ABS)	As per CMVR
9.	Electrical system	24 volt DC
9.1	Batteries:	Low maintenance type lead acid batteries for 24 V system- performance as per BIS:14257-1995 (latest). 2*12V of commensurate capacity. Maintenance free batteries preferred.
9.2	Self starter	24V
9.3	Alternator	24V
9.4	Electrical wiring & controls- type	As per A.I.S -52(Rev.1)
10.	Speed limiting device (optional):	Electronic type duly approved /certified as per AIS 1018/2001 or latest, tamper proof and be adjusted to applicable speed limit
11.	Tyres	10.00*20 Radial tyres
	Fuel tank	240 litres and above
12.	Fuel tank location	Optional
13.	Bus characteristics	
13.1	Bus dimensions (mm)	
a	Overall length (over body excluding bumper)	10500 (minus tolerance of 100) and above
b	Overall width (sole bar/floor level- extreme points)	2600 (maximum)
c	Overall height (unladen - at extreme point)	3800 (maximum)
d	Wheel-base	5300 (tolerance -200 +400) and above
i	Front overhang	As per CMVR
ii	Rear overhang	As per CMVR
13.2	Maximum turning circle radius (mm)	As per CMVR
13.3	Floor height above ground (mm)- maximum	1100 to 1200
13.4	Clearances (mm)	
a	Minimum axle clearance (mm)	190.

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b	Wheel area clearance (mm)	> 220 for parts fixed to bus body & > 170 for the parts moving vertically with axle.
c	Minimum ground clearance (un-kneeled) in mm at GVW	Within the wheelbase not less than 240
13.5	Angles (degrees)	
a	Angle of approach (unladen)	Not less than 8.5°
b	Angle of departure (unladen)	Not less than 9.0°
c	Ramp over angle (half of break-over angle)	Not less than 4.8°
14.	Bus gates/Doors	
14.1	Type of doors	jack knife
a	Operating mechanism	Manual
B	Minimum door aperture (without flaps) in mm	A.IS 52(Rev.1).
c	Minimum clear door width (fully opened) in m	A.IS 52(Rev.1).
d	Minimum door height in mm	A.IS 52(Rev.1).
e	Positioning service gate	Between front and Rear axle
f	Number of gates	1.
14.2	Maximum first step height (mm) from ground - unladen & un-kneeled position in buses with:	
a	Stepped type entry (maximum)	430.
14.3	Maximum height (mm) of other steps	350
A	Emergency doors/exits or apertures (Numbers)	As per AIS 052
	Dimensions in mm	As per AIS 052
b	Door components	As per AIS 052
c	Door locks/locking systems/door retention items	As per AIS 052
d	Door hinges	As per AIS 052
15.	Bus body	
15.1	Design type approval	Bus should be Type Approved

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15.2	Bus structure - materials specs etc	Material to be decided by the manufacturer . Other requirements as per bus body code. Material should fulfil strength etc.
15.3	Insulation	
a	Roof structure	Material to be decided by the manufacturer . Other requirements as per bus body code. Material should fulfil strength etc.
b	Engine compartment	
15.4	Aluminium extruded sections for:	
a	Rub rail	Aluminium extrusion IS 733/1983 or better
b	Decorative moulding	
c	Wire cover	
d	Wearing strip	
e	Foot step edging	
f	Panel beading	
g	Window frame	
h	Roof grab rail brackets	
15.5	Floor type/Materials etc	
a	Type of floor	Flat except at wheel arches .
B	Floor surface material	The saloon floor and driver cab floor shall be of aluminium alloy chequered plates of 10-G thickness (Minimum 3.0mm thick) aluminium alloy with diamond pattern or with 5 bar pattern 65032 & T 6 conforming to IS-14712-1999 or latest. However one pattern shall be provided in a bus. Wearing strips of suitable extruded section shall be provided in the saloon gangway and driver's cab gangway, on all sides of gear box trap, etc. These wearing strips shall also be provided in the entrance and exit step well assembly, wheel arches, etc.
c	Anti- skid material	3 mm thick anti-skid type silicon grains ISO 877/76 for colour, IS5509 for fire retardancy
15.6	Safety glasses and fittings:	
a	Front windscreen (laminated) glass:	Single piece laminated safety glass, plain, flat/curved with curved corners with PVB film IS 2553 (Part-2)-1992/latest. Standard designs for each variant of buses to be followed.
	Size:	

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b	Rear windscreen: (wherever provided)	Single piece flat/curved toughened glass-plain/flat/curved at centre & curved at corners IS:2553 (Part-2)1992/latest
	Size:	Standard designs for each variant of buses to be followed.
c	Side windows:	Flat, 2-piece design-top fixed/sliding & bottom sliding toughened glass
d	Glass specifications	IS2553 (Part-2)-1992/latest Toughened glass IS2553(Part-2)-1992/latest
	Glass thickness:	4.8-5.3mm
e	Window & other glasses - material specs, thickness etc	Toughened as per IS:2553 (Part-2)1992/latest of 4.8-5.3 mm thickness
f	Safety glass	As per AIS 052/CMVR
g	Rear view mirrors	As per AIS 052
15.7	Seating and gangway etc	
15.7.1	Passenger seatings for Type-III buses	As per AIS 052
a	Seat layout in the low floor area	3x2
b	Seat area/seat space per passenger (width*depth) mm	400*350
c	Seat pitch - minimum (mm)	As per AIS 052
d	Minimum backrest height-from floor to top of seat/ headrest	As per AIS 052
	Seat base height-distance from floor to horizontal front upper surface of seat cushion mm.	As per AIS 052
	Seat back rest height (mm)	1100mm.
e	Torso angle (degrees)	Minimum 15 deg.
f	Seat materials	Moulded PU foam
g	Seat frame structure material where required:	Frame structure of ERW steel tube
h	Free height over seating position (mm)	As per AIS 052
	Seat base height	As per AIS 052
i	Clearance space for seated Passenger facing partition (mm)	Minimum 350
j	Seat back/Pad material/Thickness:	Polyurethane foam IS15061:2002 (padding is optional)
	Type:	MDI moulded IS 5509

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	Upholstery:	Velvet cloth
k	Area for seated passengers (sq. mm.) type III SDX:	450x400 (min)
l	Area for standee passengers (sq. mm.)	As per AIS 052
m	Number of seats including one for wheel chair	54+1
n	Number of standees	Calculation as per AIS 052
o	Sitting/Standing ratio	Not required
p	Head rest	required
q	Seats side facing location	Not suggested
s	Seat arm	required as per A.I.S 52
t	Magazine pouch	required
u	Individual seat row fans	Not required
v	Reading lights	Not required
w	Seat back rest	Fixed
x	Seat belts & their anchorage	Not necessary except diver seat (performance etc. as per AIS 052)
y	Performance & strength requirements of:	
i)	Driver seat	As per AIS 023
ii)	Passenger seats	As per AIS 023
15.7.2	Gangway:	
a	Minimum interior head room (centre line of gangway) mm	1900 including that in the rear overhang area.
i)	At front axle:	As per AIS 052
ii)	At rear axle:	As per AIS 052
iii)	Other areas	As per AIS 052

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b	Gangway width (mm) from gates to longitudinal space between seats (access to service doors)	(Ref figure-1) minimum 700 mm excluding armrests (armrests are required) and including stanchions- will be measured from seat edge to seat edge. In case of front engine buses, clear passage available between front seat row and engine should not be less than 400 mm.
c	Gangway width (mm) in longitudinal space between seats	As per AIS 052
d	Gangway width (mm) in longitudinal space between seats (rear of rear edge of the rear door in rear engine bus)	As above
E	Driver's working space	As per AIS 052
F	Driver's seat	As per AIS 052
15.8	Corrosion prevention & painting	Corrosion prevention treatment/ painting for structural members/ components, assembled structure, panels etc.,
a	Corrosion prevention treatment	As per clause 3.17 of AIS 052
	Internal surfaces of structural members	
	External surfaces of structural members	
	After drilling holes/welding	
	Intermetallic galvanic corrosion prevention	
b	Primer coating	
c	Painting:	
16.	Electrical system	BIS marked, copper conductors with fire retardant as per IS/ISO:6722:2006 as per appropriate class. conductor x-sec varying as per circuit requirements, minimum cross-section 0.5 sq mm. quality marking may also be as per equivalent or better European, Japanese, US standards
16.1	Electrical cables:	
16.2	Conductor cross section	
16.3	Safety requirements of electrical	
a	Fuse	As per AIS 052
b	Isolation switches for electrical circuits where RMS value of voltage exceeds 100 volts	
c	Location of cables away from heat sources	
d	Type approval of circuit diagram as per Standards related to electric equipments/wiring	
e	Battery cut - off switch (isolator switch):	

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16.4	Wind screen wiper:	Electrically operated with two wiper arms & blades, wiper motor heavy duty steel body with minimum 2-speed operation wiping system as per CMVR/BIS:7827 part-1, 2, 3 (Sec.1 & 2)/latest. As per AIS 011
a	Wiper motor:	Variable speed with time delay relay as per AIS 011
b	Wiper arm/Blade:	As per AIS 019/AIS 011
16.5	Driver cabin fan	1 number, 200 mm fan as per provision of CMVR, matching interiors
16.6	Lighting - internal & external and illumination	As per AIS 052
16.7	Illumination requirements/performance of:	
a	Dash board tell tale lighting/control lighting	As per AIS 052
b	Cabin lighting - luminous flux of all lamps for cabin lighting	As per AIS 052 with illumination level of ≥ 100 lux & ± 200 lux
c	Passenger area lighting -luminous flux of all lamps for Passenger area lighting	As per AIS 052 with illumination level of ≥ 100 lux and ± 150 lux
17	Safety related items:	
17.1	Driver seat belt & anchorage duly type approved.	ELR recoil type, 3 point mounting as per CMVR & AIS 052 conforming to AIS 005 & 015
78.2	Passengers seat belt:	Not necessary except diver seat
	Number:	
17.3	Driver/Passenger/Wheel chair seat belt anchorage	
17.4	Fire extinguisher:	As per AIS 052
17.5	First aid box:	1 number, as per provision of CMVR
17.6	Handrails minimum length*diameter*height above floor in mm	Colour contrasting and slip resistant of aluminium tubing 32 mm dia, 3 mm thick. rest as per AIS 052
17.7	Handholds:	Colour contrasting and slip resistant. 2 to 4 numbers. Handholds per bay. rest as per AIS 052
17.8	Stanchions:	Vertically fitted, aluminium OR stainless steel tubing with colour contrasting and slip resistant. 40 mm diameter & 3.15 mm thick
17.9	Bells for Passenger convenience	High visibility bell pushes shall be fitted at a height of 1.2 meter on all alternate stanchions. These would assist PwDs
17.10		Applicable for BRTS

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17.11	Window guardrails:	As per AIS 052. An additional guard rail in the rear part of bus in view of raised seating.
a	In all school buses - minimum numbers.	
b	In all other buses- minimum numbers.	
c	In AC super deluxe buses	
d	Other details:	
i)	First guard rail at a height from window sill in mm	
ii)	The distance between two guard rails in mm	
17.12	Entrance/Exit guard/Step well guard:	800 mm minimum height extending ≥ 100 mm more than centre line of sitting position of the Passenger.
17.13	Emergency exit doors, warning devices etc:	As per AIS 052/CMVR
17.14	Front/Rear door, stepwell lights, door open sign	Incandescent bulb/LED as per AIS 008
17.15	Mirrors right/left side exterior/interior:	Convex as per AIS 001 & 002. Interior with double curvature
17.16	Towing device front/rear	Heavy duty 1.2 times (minimum) the kerb weight of the bus with 30 of the longitudinal axis of the bus. As per CMVR & IS 9760 - ring type
17.17	Warning triangle	As per AIS 052/CMVR
17.18	Fog lighting	As per AIS 052/CMVR
17.19	Bumpers - front and rear	Both made of steel or impact resistant polymer or combination of both meeting requirement of an energy absorbing system
	Impact strength for bumpers	Meet requirements of paragraph 6.3.1 of AIS 052
18.	Miscellaneous items/requirements	
18.1	Windows	
a	Type of window	Sliding type window panes except AC bus
b	Minimum height of window aperture (clear vision) in mm	≥ 950
c	Minimum height of upper edge of window aperture from bus floor	As per AIS 052
d	Minimum width of windows (clear vision zone)	As per AIS 052
18.2	Cabin luggage carrier	As per AIS 052
18.3	Life cycle requirements of bus (whichever is earlier)	12 years or 10,00,000 km

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19.	Air conditioning system - test procedure for type approval	Not required
20.	Additional requirements	
21.	Air circulations and ventilation in driver's area	An air passage/duct/roof hatch to be provided in driver area at a suitable location for proper inflow of air inside the driver cab Drivers work area to be provided with blower or suitable device (200 mm diameter fan) to ensure proper ventilation. These devices may be capable of 3 ÷ speed adjustment
21.1	Maximum noise levels inside the saloon (irrespective of AC, non-AC/fuel type/engine location)-test procedure as per AIS	84 dba (to be achieved a maximum noise level of 81 dba from 1 April 2015 onwards)
22.	Fuel efficiency requirement	While tendering purchaser may take into account the higher weightage for more fuel efficient vehicle under standard test conditions
23.	New Addition	Provision for fitment of a)L.E.D destination board(A.I.S -52(Rev.1) b)Security Cameras-2nos ,one in front of the bus and another in rear of the bus. I,e CCTV system.with a provision for recording,auto purging after 72 hours and live streaming. c)Provision for fitment of panic button.

-: MISCELLANEOUS ITEMS TO BE FITTED WITH EACH BUS BODY:-

1. One pair of Towing hooks required, one at front and other at rear and off side. The diameter of the rod should be 20mm Dia. The hole Diameter of the rear Towing hook must be 75mm.
2. Tool box 24"x 10"x17"with 14 SWG M.S. to be provided at inside portion of Driver's Cabin.
3. Suitable sizes Destination Board shall be provided at left side portion above front Dash Board.
4. Doors shall be designed in such a manner as to be completely rattle dust lock proof in closed position.
5. Metal First Aid Box with Medicine to be provided at Driver's Cabin.
6. **South Bengal State Transport Corporation** in English & Bengali lettering to be provided Monogram to be painted on the both side only.
7. Driver's door window shall be full drop type glass window.
8. Suitable Spare wheel carrier to be provided.
9. Roof luggage carrier as per A.I.S -52(Rev.1) is to be provided/Side luggage carrier to be provided.

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10. Hatrack to be provided inside the bus as per A.I.S-52(Rev.1)

(IV) METHOD OF SUBMISSION OF BOTH TECHNICAL & FINANCIAL BIDS.

1. TECHNICAL BID (cover-I) should contain the following covers.

(i) One Sealed cover containing the documents required to prove the eligibility criteria mentioned in the tender document along with the letter accepting the terms and conditions of the tender.

(ii) Separate sealed cover containing all technical specifications as specified in the bid to be submitted physically & scan copy to be uploaded at desired folder. All the copies should be self attested by the bidder.

(iii) The Technical Bid must be accompanied by **non refundable application fees by D.D** as mentioned .

(iv) All these covers should be placed in a single cover along with non refundable application fees by D.D and covering letter and sealed properly and super scribed as **“TECHNICAL BID FOR Type III Bus Supply ”**.

2. BOTH TECHNICAL & FINANCIAL BIDS to be submitted in Online format on or before 06.09.2016 at 14.00 hrs .Physical copies of the supporting documents along with **non refundable application fees by D.D** mentioned above should be submitted to office of **“The Managing Director”, South Bengal State Transport Corporation, Dr. B. C. Roy Avenue, Durgapur, 713201** by 06.09.2016 within 14.00 hrs.

Managing Director,

South Bengal State Transport Corporation