



**WEST BENGAL MEDICAL SERVICES CORPORATION LTD.**  
(Wholly owned by the Government of West Bengal)  
Swasthya Sathi, GN-29, Sector-V, Salt Lake, Kolkata-700 091.

**CORRIGENDUM – I  
TO  
BIDDING DOCUMENTS**

**FOR**

**Planning, Design and Construction of 5 Government Medical Colleges in the State of West Bengal on  
Turnkey Basis**

Sl. No.	Page No.	Section	Clause/ Sl. No.	Current Clause / Provision			Changed Clause / Provision		
				Sl. No.	Particulars	Date & Time	Sl. No.	Particulars	Date & Time
1	6-7	Section - 1 Notice Inviting e-Tender (e- NIT)	10	1.	Date of uploading of Bidding Documents online) (Publishing Date)	30/06/2016	1.	Date of uploading of Bidding Documents (online)	30/06/2016
				2.	Documents download start date (Online)	01/07/2016	2.	Publishing Date (Online)	01/07/2016
				3.	Documents download end date (Online)	01/07/2016 from 9.00 AM	3.	Documents download start date	01/07/2016 from 9.00 AM
				4.	Date of Pre Bid Meeting with the intending bidders in the office of WBMSCL	19/07/2016 at 1.00 PM	4.	Date of Pre Bid Meeting with the intending bidders in the office of WBMSCL	19/07/2016 at 1.00 PM
				5.	Bid submission start date (Online)	28/07/2016 at 1.00 PM	5.	Bid submission start date (Online)	28/07/2016 at 1.00 PM
				6.	Bid submission closing (Online)	08/08/2016 at 4.00 PM	6.	Bid submission closing (Online)	08/08/2016 at 4.00 PM
				7.	(a) Last date of submission of cost of Bidding Documents (Offline) (b) Last date of submission of Earnest Money Deposit (Offline)	11/08/2016 at 3.00 PM	7.	(a) Last date of submission of Hard copies (Offline). (b) Last date of submission of cost of Bidding Documents	11/08/2016 at 3.00 PM

							(Offline). (c) Last date of submission of Earnest Money Deposit (Offline)		
				8.	Bid opening date for Technical Bid (Online)	11/08/2016 at 4.00 PM	8.	Opening date for Technical Bid (Online)	11/08/2016 at 4.00 PM onwards
				9.	Technical Presentation	To be notified later	9.	Technical Presentation	To be notified later
				10.	Date & Place for opening of Financial Proposal (Online)	To be notified during uploading of Technical Evaluation Sheet of bidders	10.	Uploading list of responsive/ non-responsive bidders	To be notified later
				11.	Date of uploading of list of bidders along with financial bids (Online)	Within 48 (forty eight) hours after opening of Financial Bid	11.	Financial Bid opening	To be notified later
							12.	Issue Notification of Award	To be notified later

Sl no.	Section no. & Clause no.	Current Clause/Provision	Changed Clause/Provision
2	Section 5.6 Page no. 8 sub section 2.4 <b>Electrical Load</b> (Annexure - 3)	Proposed Electrical Load is Estimated for Medical College, Auditorium, Hostels and Staff Quarters	<b>Revised</b> Proposed Electrical Load is Estimated for Medical College, Auditorium, Hostels and Staff Quarters <b>are attached hereunder</b>
3	Section 5.6 Page no. 9 sub section 2.4 <b>Electrical Load</b>	Calculation of DG loads	<b>Revised Calculation</b> of DG load <b>are attached hereunder.</b>
4	Section 5.6 Page no. 10 -30 <b>ELVS SCHEDULE</b> For Medical college campus in West Bengal	MEDICAL COLLEGE - 100 ADMISSIONS Lecture Theatres (120 Seating Capacity) Lecture Theatres (250 Seating Capacity) Auditorium (500-700 Seating Capacity)	MEDICAL COLLEGE - <b>150 ADMISSIONS</b> Lecture Theatres (Minimum <b>180</b> Seating Capacity) Lecture Theatres (Minimum <b>375</b> Seating Capacity) Auditorium ( <b>1000</b> Seating Capacity)
5	Section 5.6 Page no. 32-34 sub section 4.1	ILLUMINATION LEVEL (Annexure-5)	<b>Revised</b> ILLUMINATION LEVEL (Annexure – 5) <b>are attached hereunder</b>
6	Section 5.6 Page no. 35 - 41	Power Socket Schedule (Annexure-4)	<b>Revised</b> Power Socket Schedule (Annexure-4) <b>are attached hereunder</b>
7	Section 5.6 Page no. 42 sub section 6.0 <b>EMERGENCY POWER SUPPLY</b>	1. Lighting & power in OTs, SCBUs, ICUs, Pre & Post operation, delivery, nursery, emergency blood banks, Research Lab, Auditorium, Lecture Theatre, wards etc.	1. Lighting & power in <b>Research Lab, Auditorium, Lecture Theatre, BMS, Dissection hall</b> etc.
8	Section 5.6 Page no. 46-47 sub section 13.0 <b>Design of ELEVATOR components, their installation and operation shall meet</b>	Supply, erection, testing and commissioning of Bed cum passenger lift ..... and equipped with Simplex full collective with/without.....	Supply, erection, testing and commissioning of Bed cum passenger lift .....and equipped with <b>Duplex</b> full collective with/without.....
9	Section 5.6 Page no. 47-52 <b>PROVISIONS FOR ACMV SYSTEM (Annexure -1)</b>	Lecture Theatres (120 Seating Capacity)- Each Lecture Theatres (250 Seating Capacity) Auditorium (500 Seating Capacity) (including Green Room & Office)	Lecture Theatres (Minimum <b>180</b> Seating Capacity)- Each Lecture Theatres (Minimum <b>375</b> Seating Capacity) Auditorium ( <b>1000</b> Seating Capacity) (including Green Room & Office)

## 2.4 ELECTRICAL LOAD

(a) Proposed Electrical Load is Estimated for Medical College, Auditorium, Hostels and Staff Quarters are as under:

Medical college campus in West Bengal						
						<b>Annexure-3</b>
Calculation of Transformer loads						
S. No	Facility / Location	Approx Area(m <sup>2</sup> )	LOAD In for Light, Fan, 6 amps Plug & Power plug etc KW/Sqm	CONNECTED LOAD IN KW	MD factor	MD IN KW
1	ADMIN & DEPARTMENT	26736	0.04	1069	0.6	642
2	ANIMAL HOUSE	130	0.06	8	0.6	5
3	CENTRAL WORKSHOP	130	0.04	5	0.5	3
4	INCINERATOR	90	0.03	3	0.7	2
5	HOSTEL	13856	0.01	139	0.6	84
6	QUARTERS	11954	0.01	120	0.6	72
7	SERVICE BUILDINGS	700	0.01	7	0.85	6
8	Misllaneous Loads ( Fire Pumps, Lift, STP Pump, Domestic Water Pump, External Lighting,.etc..)			150	1	150
9.	Auditorium Load (Including AC)	1728		200	0.9	180
10.	A/C Load	5600		560	0.85	480
	<b>Total</b>					<b>1624</b>
Considering Diversity Factor at 80%						<b>1299</b>

<b>Medical college campus in West Bengal</b>							
							<b>Annexure-3</b>
<b>Calculation of Transformer loads</b>							
Total Say							<b>1300</b>
Maximum Load Demand in KVA (0.8 Power Factor)							<b>1625</b>
Add. 20% Furute Load							325
<b>TOTAL</b>							<b>1950</b>
Transformer Loading 85%							<b>2294 KVA</b>

**Two nos. 1250 KVA Transformer will be provided for considering above mentioned Load demand**

### **Calculation of DG loads**

<b>CALCUALTION OFDG LOADS</b>		
<b>S. No</b>	<b>Load Description</b>	<b>Emergency Load (KW)</b>
<b>1</b>	ADMIN & DEPARTMENT	<b>300</b>
<b>2</b>	HOSTELS	<b>50</b>
<b>3</b>	Misllaneous Loads ( Substation,Fire Pumps, Lift, STP Pump, Domestic Water Pump, PHE, External Lighting,.etc.)	<b>110</b>
<b>4</b>	Auditorium	<b>180</b>
<b>5</b>	A/C Load (50% load)	<b>240</b>
	<b>Total in Kw</b>	<b>880</b>
	Applying 0.8 power factor Load in KVA	<b>1100</b>
	Loading on DG set at 90% or Keeping 10% as spare capacity in KVA	<b>1222</b>
	<b>Total Say</b>	<b>1230 KVA</b>

**Two nos. D.G set will be provided for considering above mentioned Load demand.**

## 4.1 ILLUMINATION LEVEL

<b>Medical college campus in West Bengal</b>	
<b>Electrical Illumination Levels</b>	<b>Annexure-5</b>
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>	
<b>Location</b>	<b>Recommended Avg Lux</b>
Principal office	300
College Council room	300
Office	300
Record room	200
Common room - Boys & Girls	200
Cafeteria	200
Examination room	300
Central Library	300
Lecture Theatres	300
Auditorium (1000 Seating Capacity)	300
Central Research Laboratory	300
Central Photographic Section	300
Medical Education Unit	300
Demonstration room	300
Dissection Hall	300
Museum	300
Embalming room	300
Cold Storage room	200
Histology Lab	300

<b>Medical college campus in West Bengal</b>	
<b>Electrical Illumination Levels</b>	<b>Annexure-5</b>
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>	
<b>Location</b>	<b>Recommended Avg Lux</b>
Preparation room	200
Research Lab	300
Museum - Preparation rooms	300
Department Library	300
Amphibian Lab	300
Mammalian lab	300
Human Lab - Haematology	300
Clinical Physiology Lab	300
Practical Class room	300
Ante room	300
Practical Labs	300
Service Laboratory	300
Balance room	200
Store room	100
Special room for High Centrifuge	300
Media Preparation & Storage	300
Autoclaving	300
Washing & Drying	200
Professor & Head / Lecturer	200
Lobby	150



<b>Medical college campus in West Bengal</b>	
<b>Electrical Illumination Levels</b>	<b>Annexure-5</b>
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>	
<b>Location</b>	<b>Recommended Avg Lux</b>
Change/ Lockers	150
Toilet	100
Staff room/ Doctors room	200
Animal rooms	150
Feed Room	150
Bio-Medical Engineers room	300
Instruments repair area/ Workshop area	300
Carrom/ Chess room	300
Gym room (Tread Mill, Cycling, Work area)	300
Office / Staff room/ Doctors room	300
Demonstration room	300
Autopsy room	300
Student room	200
Visitor room/ Care taker room	150
Study room (With Computer & Internet)	300
Recreation room	200
Corridor	100
Living room/ Family room	200
Kitchen	200
Bed room	150

<b>Medical college campus in West Bengal</b>	
<b>Electrical Illumination Levels</b>	<b>Annexure-5</b>
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>	
<b>Location</b>	<b>Recommended Avg Lux</b>
UG Sump & Pump Room, Electrical Sub station, Transformer Yard, HVAC Plant room	200
Area Lighting	10
Service Road Lighting	15
Main Access road/Street Lighting	30

**Illumination Level may be changed as per Employers requirement**

## Table- Power Socket Schedule

<b>Medical college campus in West Bengal</b>									
<b>Table- Power Socket Schedule</b>							<b>Annexure-4</b>		
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>									
S. No	Facility	RAW POWER SOCKET				UPS POWER SOCKET			
		6/16 A	6A	20A	32A	6/16 A	6A	20A	
<b>1A</b>	<b>ADMINISTRATIVE BLOCK</b>								
	Principal office		1	1			2		
	Staff room	2					10		
	College Council room	2					2		
	Officer Superintendent room		2				2		
	Office	1	2				48		
	Record room		1				2		
	Common room - Boys & Girls	4	2				0		
	Cafeteria	6	2						
	Examination room	6					2		
	Central Library	6					12		
	Lecture Theatres (180 Seating Capacity)	8					6		
	Lecture Theatres (375 Seating Capacity)	10					6		
	Auditorium (1000 Seating Capacity)	20					6		
	Common Laboratories	4	50				2		
	Common Laboratories	10					2		
	Central Research Laboratory	4					2		

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>								
		6/16 A	6A	20A	32A	6/16 A	6A	20A						
	Central Photographic Section	4					2							
	Medical Education Unit	2					2							
	<b>SUB TOTAL</b>													
<b>1B</b>	<b>DEPARTMENT BLOCK</b>													
<b>A</b>	<b>ANATOMY</b>													
	Demonstration room	4					2							
	Dissection Hall	6					2							
	Museum	4	4				2							
	Embalming room	1					2							
	Storage Tanks													
	Storage Tanks													
	Cold Storage room	2												
	Histology Lab	4	50				2							
	Preparation room	2												
	Research Lab	2	2											
	Museum - Preparation rooms	6					2							
	Department Library	4					2							

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>								
		6/16 A	6A	20A	32A	6/16 A	6A	20A						
<b>B</b>	<b>PHYSIOLOGY INCLUDING BIOPHYSICS</b>													
	Demonstration room	1					2							
	Amphibian Lab	4	50				2							
	Preparation room	2												
	Mammalian lab	5					2							
	Preparation room	2												
	Human Lab - Haematology	6												
	Preparation room	2												
	Clinical Physiology Lab	2					2							
	Department Library	2					10							
	Research Lab	2												
<b>C</b>	<b>BIOCHEMISTRY</b>													
	Demonstration room	1					2							
	Practical Class room	4					2							
	Ante room	2	2											
	Department Library	2					2							
	Research Lab	2												

<b>Medical college campus in West Bengal</b>													
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>					
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>													
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>							
		6/16 A	6A	20A	32A	6/16 A	6A	20A					
<b>D</b>	<b>PATHOLOGY</b>												
	Demonstration room	1					2						
	Museum	4	4				2						
	Practical Labs	4	50				2						
	Preparation room	2											
	Service Laboratory	2					2						
	Balance room	1											
	Store room	1											
	Special room for High Centrifuge	1					2						
	Wash	1											
	Autopsy Block												
	Department Library	1					2						
	Research Lab	1					2						
<b>E</b>	<b>MICROBIOLOGY</b>												
	Service Laboratories	1					2						
	Museum	4	4										

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>								
		<b>6/16 A</b>	<b>6A</b>	<b>20A</b>	<b>32A</b>	<b>6/16 A</b>	<b>6A</b>	<b>20A</b>						
	Demonstration room	1					2							
	Practical Lab	4	50				2							
	Preparation room	2												
	Media Preparation & Storage	1					2							
	Autoclaving	2												
	Washing & Drying	2												
	Department Library	1					2							
	Research Lab	1					2							
<b>F</b>	<b>PHARMACOLOGY</b>													
	Demonstration room	1					2							
	Museum	4	4											
	Practical Labs	4	50				2							
	Preparation room	2												
	Department Library	1					2							
	Research Lab	1					2							
<b>G</b>	<b>FORENSIC MEDICINE INCLUDING TOXICOLOGY</b>													

<b>Medical college campus in West Bengal</b>													
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>					
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>													
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>							
		<b>6/16 A</b>	<b>6A</b>	<b>20A</b>	<b>32A</b>	<b>6/16 A</b>	<b>6A</b>	<b>20A</b>					
	Demonstration room	1					2						
	Museum	4	4										
	Practical Lab		50				2						
	Department Library	1					2						
	Research Lab	1					2						
<b>H</b>	<b>COMMUNITY MEDICINE</b>												
	Museum	4	4										
	Demonstration room	1					2						
	Practical Lab	4	50				2						
	Department Library	2					10						
	Research Lab	1					2						
	<b>Staff Accommodation</b>												
	Professor & Head	1		2			2						
	Asso. Prof/ Reader	2	1				2						
	Asst. Prof/ Lecturer	2	1				2						
	Statistician cum Lecturer	2	1				2						



<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>								
		<b>6/16 A</b>	<b>6A</b>	<b>20A</b>	<b>32A</b>	<b>6/16 A</b>	<b>6A</b>	<b>20A</b>						
	Epidemiologist cum Lecturer	2	1				2							
	Tutor/ Demonstrator	2	1				2							
	Dept Office/ Clerical Room	2	1				2							
	Non Teaching staff room	2	1				2							
<b>2</b>	<b>ANIMAL HOUSE</b>													
	Lobby	1												
	Change/ Lockers		1											
	Toilet	1		1										
	Laboratory/ Sterile Store	2												
	Staff room/ Doctors room	1					2							
	Operation Theatre	2		1			2							
	Animal rooms	1												
	Feed Room	1												
<b>3</b>	<b>CENTRAL WORKSHOP</b>													
	Lobby	1												

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>								
		6/16 A	6A	20A	32A	6/16 A	6A	20A						
	Bio-Medical Engineers room	1					2							
	Instruments repair area/ Workshop area	4		2			2							
<b>4</b>	<b>GYMNASIUM (OPTIONAL)</b>													
	Lobby	1												
	Change/ Lockers		1											
	Toilet	1		1										
	Carrom/ Chess room	1												
	Gym room (Tread Mill, Cycling, Work area)	2	4											
<b>5</b>	<b>AUTOPSY BLOCK</b>													
	Lobby/ Reception	2	2											
	Office / Staff room/ Doctors room	1					2							
	Demonstration room	2												
	Autopsy room	2	2											
	Cold room			2										
	Store	1												
	Toilet	1		1										

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
<b>S. No</b>	<b>Facility</b>	<b>RAW POWER SOCKET</b>				<b>UPS POWER SOCKET</b>								
		6/16 A	6A	20A	32A	6/16 A	6A	20A						
<b>6</b>	<b>HOSTEL</b>													
	U.G Hostels (Boys & Girls) Room													
	Interns Girls & Boys hostel Room													
i	Lobby	1												
ii	Student room (3students Per Room)		3											
iii	Visitor room/ Care taker room	1	2											
iv	Study room (With Computer & Internet)	2	2				10							
v	Common Toilet (WB/ WC/ Bath)		2		1									
vi	Dining room	2												
vii	Recreation room	2	2											
viii	Service room	2		1										
<b>7</b>	<b>QUARTERS</b>													
	Superintendent / Principal Housing													
i	Lobby		1											
ii	Living room/ Family room	2												
iii	Kitchen	2												

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
S. No	Facility	RAW POWER SOCKET				UPS POWER SOCKET								
		6/16 A	6A	20A	32A	6/16 A	6A	20A						
<b>iv</b>	Bed room -1		1	1										
<b>v</b>	Bed room -2		1	1										
<b>vi</b>	Bed room -3		1	1										
<b>vii</b>	Toilets (WB/WC/Bath) (Common/ Attached)			1										
	Doctors Quarters													
<b>i</b>	Lobby		1											
<b>ii</b>	Living room/ Family room	2												
<b>iii</b>	Kitchen	2												
<b>iv</b>	Bed room -1		1	1										
<b>v</b>	Bed room -2		1	1										
<b>vi</b>	Bed room -3		1	1										
<b>vii</b>	Toilets (Common/ Attached)			1										
	Paramedics/Admin. Staff Quarters													
<b>i</b>	Lobby	2												
<b>ii</b>	Living room/ Family room	1	2											
<b>iii</b>	Kitchen	2												

<b>Medical college campus in West Bengal</b>														
<b>Table- Power Socket Schedule</b>								<b>Annexure-4</b>						
<b>MEDICAL COLLEGE - 150 ADMISSIONS</b>														
S. No	Facility	RAW POWER SOCKET				UPS POWER SOCKET								
		6/16 A	6A	20A	32A	6/16 A	6A	20A						
iv	Bed room -1		1	1										
v	Bed room -2		1	1										
vii	Toilets (WB/WC/Bath) (Common/ Attached)			1										
	Nurse Quarters													
i	Lobby	1												
ii	Living room	1	2											
iii	Kitchen	2												
iv	Bed room -1		1	1										
v	Toilets (WB/WC/Bath) (Common)			1										
<b>8</b>	<b>SERVICE BUILDINGS</b>													
	UG Sump & Pump Room, Electrical Sub station, Transformer Yard, HVAC Plant room	6		2										

**Power Socket schedule may be changed as per Employers requirement**