

राष्ट्रीय आदिवासी छात्र शिक्षा समिति  
(जनजातीय कार्य मंत्रालय के अंतर्गत  
एक स्वायत्त संस्थान, भारत सरकार)  
भू-तल, गेट नंबर-3ए, जीवन तारा बिल्डिंग,  
संसद मार्ग, नई दिल्ली-110001  
दूर. 011-23340280



**National Education Society for Tribal Students**  
(An Autonomous Organization under  
Ministry of Tribal Affairs, Govt. of India)  
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File No. NESTS/EMRS/DGSetRating/526/2023  
Comp No. 26518

Date: 13.11.2023

To,

1 CMD/MD, Zonal Managers/ Nodal Officer, HSCL, EPIL, TCIL, MANIDCO, WAPCOS, B&R, NPCC, MTDC.

2 Chief Engineer CPWD, Andhra Pradesh, Himachal Pradesh, MAHARASHTRA, RAJASTHAN, TELANGANA, TRIPURA.

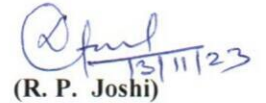
3. Nodal Officer concerned state EMRS society - Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Gujarat, Himanchal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Manipur, Mizoram, Nagaland, Odisha, Rajasthan, Sikkim, Telangana, Tripura, Uttar Pradesh, Uttarakhand, West Bengal.

**Subject: Construction of EMRS by PSUs and CPWD-Guidelines regarding DG Set.**

Sir,

1. This has reference to Detailed Project Reports (DPRs) submitted to NESTS for construction of EMRS by PSUs/CPWD. It has been noted that in some DPRs 62.5 KVA DG Sets has been proposed/approved for essential power supply in the Schools.
2. There is provision of 25 KVA DG Set in the EMRS guideline issued on 14/3/2023 and the same shall be adhered to for submission of DPRs and execution at site.
3. Detail of essential points to be connected with DG. Set essential supply is enclosed at Annexure-1 for reference please.
4. Essential/non-essential/UPS distribution each will have a completely independent and separate distribution system strating from the main switch board up to final wiring for each system. Generally, no switch board will have more than one source of incoming supply as per relevant CPWD specifications.

Yours Sincerely,

  
(R. P. Joshi)

Executive Engineer

Encl: Annexure- I

Copy to:

1. Ps to Commissioner NESTS.
2. Joint Commissioner NESTS (Shri Bipin Chandra Raturi).
3. CTC wing-1.
4. CT Wing- 3.
5. Gurard File.

## Annexure -I

S.NO	DESCRIPTION	Nos	Essential CEILING FAN 1200MM	Essential BATTEN HOLDER WITH LED 20W LAMP	Essential 20W LED BATTEN (WALL / SURFACE)	Essential 40W LED BATTEN	Essential 15W LED DOWN LIGHTER	Essential EXHAUST FAN (300mm)	Essential 15/16A POWER PLUG POINT	Essential Wall Fan 400 mm	Essential 12W LED DOWN LIGHTER	6A PLUG POINT (UPS)	
<b>SCHOOL BLOCK(G+1)</b>													
<b>GROUND FLOOR</b>													
			5	10	22	0	0	0	0	1	9	4	
	Entrance Hall	1											
	Porch	1			1								
	Office	1	1		2							2	
	Vice Principal Room	1	1		1							1	
	Meeting Room	1											
	Principal Room	1	1		2							1	
	Principal / VP Toilet	2		1									
	Chemistry Lab & Store	1			1								
	Boys' Toilet	2		1									
	Girls' Toilet	2		1									
	Differently abled Toilet	2		1									
	Language Room	1											
	Classroom	6			1								
	Staff Room 2	1	1		1								
	Staff Room 1	1	1		1								
	Staff Toilet (male)	1		1									
	Staff Toilet (female)	1		1									
	Recreation Room	1											
	Biology Lab & Store	1			1								
	Maths Lab	1			1								
	Medical Room	1			1					1			
	Pantry	1											
	General Store	1											
	Server Room	1											
	Staircases	4			1								
	Corridors	1									9		
	Ramp	1											
	Assemble area stage	1											
	<b>FIRST FLOOR</b>		0	6	28					0	9	34	
	Double Height Foyer & Terrace	1											
	Smart Classroom	6			2								
	Classroom	5			1								
	Computer Lab & Store	1			1							32	
	Boys' Toilet	2		1	1								
	Girls' Toilet	2		1	1								
	Differently abled Toilet	2		1									
	Store	1											
	Library	1			1							2	
	Physics Lab & Store	1			1								
	Staircases	4			1								
	Corridors	1									9		
	Ramp	1											
	<b>TOTAL</b>		5	16	50					1	18	38	
	UNIT LOAD IN WATT		60	20	20					60	12	150	
	TOTAL LOAD IN WATT		300	320	1000					60	216	5700	
	TOTAL UPS LOAD (KW)		5.7										
	<b>Essential load(DG Set Supply)</b>		7.596										

  
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S.NO	DESCRIPTION	Nos	Essential CEILING FAN 1200MM	Essential BATTEN HOLDER WITH LED 20W LAMP	Essential 20W LED BATTEN (WALL / SURFACE)	Essential 40W LED BATTEN	Essential 15W LED DOWN LIGHTER	Essential EXHAUST FAN (300mm)	Essential 15/16A POWER PLUG POINT	Essential Wall Fan 400 mm	Essential 12W LED DOWN LIGHTER	6A PLUG POINT (UPS)	
	<b>HOSTEL(G+1)Block-I</b>												
	<b>GROUND FLOOR</b>		<b>1</b>	<b>9</b>	<b>3</b>	<b>12</b>					<b>6</b>		
	Dormitory Room	6				2							
	Toilet	2		4									
	Differently Abled Toilet	1		1									
	Entrance lounge / Porch	1			1								
	Varandah	1											
	Warden Room	1	1		1								
	Common Room	1											
	Corridors	1									6		
	Staircase	1			1								
	<b>FIRST FLOOR</b>		<b>0</b>	<b>8</b>	<b>1</b>	<b>16</b>					<b>6</b>		
	Dormitory Room	8				2							
	Toilet	2		4									
	Corridors	1									6		
	Staircase	1			1								
	<b>TOTAL</b>		<b>1</b>	<b>17</b>	<b>4</b>	<b>28</b>					<b>12</b>		
	UNIT LOAD IN WATT		60	20	20	40					12		
	TOTAL LOAD IN WATT		<b>60</b>	<b>340</b>	<b>80</b>	<b>1120</b>					<b>144</b>		
	<b>Essential load(DG Set Supply)</b>		<b>1.744</b>										
	<b>EMRS - Hostel ( G+1)Block -II</b>												
	<b>GROUND FLOOR</b>			<b>9</b>	<b>2</b>	<b>16</b>					<b>6</b>		
	Dormitory Room	8				2							
	Toilet	2		4									
	Differently Abled Toilet	1		1									
	Electrical Room	1			1								
	Corridors	1									6		
	Staircase	1			1								
	<b>FIRST FLOOR</b>			<b>8</b>	<b>1</b>	<b>16</b>					<b>6</b>		
	Dormitory Room	8				2							
	Toilet	2		4									
	Corridors	1									6		
	Staircase and Terrace	1			1								
	<b>FIRST FLOOR TOTAL</b>												
	<b>TOTAL</b>			<b>17</b>	<b>3</b>	<b>32</b>					<b>12</b>		
	UNIT LOAD IN WATT			20	20	40					12		
	TOTAL LOAD IN WATT			<b>340</b>	<b>60</b>	<b>1280</b>					<b>144</b>		
	<b>Essential load(DG Set Supply)</b>		<b>1.824</b>										
	SUB STATION BUILDING		3		5					3			
	PUMP & GUARD ROOM		1		2					1			
	<b>Total</b>		<b>4</b>	<b>0</b>	<b>7</b>					<b>4</b>			
	UNIT LOAD IN WATT		60		20					500			
	TOTAL LOAD IN WATT		240	0	140	0	0	0	2000				
	<b>Essential load(DG Set Supply)</b>		<b>2.38</b>										

  
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1.	EMRS - Principal Qtr. measurement sheet (Phase II)												
	<b>Total</b>		<b>2</b>	<b>1</b>	<b>2</b>								
	Office	1	1		1								
	Bed Room - 1	1	1		1								
	Toilet - 1	1		1									
	<b>TOTAL</b>		<b>2</b>	<b>1</b>	<b>2</b>								
	UNIT LOAD IN WATT		60	20	20								
	TOTAL LOAD IN WATT		120	20	40								
	<b>Essential load(DG Set Supply)</b>		<b>0.18</b>										
2.	10 Nos Type II QTS												
	<b>Total</b>		<b>10</b>	<b>10</b>	<b>13</b>	<b>0</b>	<b>3</b>						
	Bed Room 1	10	1		1								
	Toilet - 1	10		1									
	Stair Case	3			1								
	Common Area	3					1						
	<b>TOTAL</b>		<b>10</b>	<b>10</b>	<b>13</b>		<b>3</b>						
	UNIT LOAD IN WATT		60	20	20		15						
	TOTAL LOAD IN WATT		600	200	260		45						
	<b>Essential load(DG Set Supply)</b>		<b>1.105</b>										
3.	16 Nos Type III QTS												
	<b>Total</b>		<b>16</b>	<b>16</b>	<b>20</b>	<b>0</b>	<b>4</b>						
	Bed Room 1	16	1		1								
	Toilet - 1	16		1									
	Stair Case	4			1								
	Common Area	4					1						
	<b>TOTAL</b>		<b>16</b>	<b>16</b>	<b>20</b>		<b>4</b>						
	UNIT LOAD IN WATT		60	20	20		15						
	TOTAL LOAD IN WATT		960	320	400		60						
	<b>Essential load(DG Set Supply)</b>		<b>1.74</b>										
4	KITCHEN & DINNING BLOCK												
	<b>Total</b>		<b>0</b>	<b>0</b>	<b>23</b>	<b>24</b>	<b>0</b>	<b>3</b>	<b>2</b>				
	Handwash Area	2			1								
	Dining Room	2				8							
	Utensil Wash Through	2				2							
	Drinking Water	2			1								
	Toilet	3			1								
	Entrance	2			1								
	Pantry	1				4							
	Kitchen	1			4			3	2				
	Kitchen court(roof/service B	1			6								
	Store 1	1			1								
	Store 2	1			1								
	Gas Bank and Terrace	1											
	Utensil wash and Pot wash	1			2								
	Store 3	1											
	Store 4	1											
	<b>TOTAL</b>		<b>0</b>	<b>0</b>	<b>23</b>	<b>24</b>	<b>0</b>	<b>3</b>	<b>2</b>				
	UNIT LOAD IN WATT		60	20	20	40	15	100	500				
	TOTAL LOAD IN WATT		0	0	460	960	0	300	1000				
	<b>Essential load(DG Set Supply)</b>		<b>2.72</b>										
5	GIRLS WARDEN RESIDENCE												
	Living/ Dining Room				1								
	Kitchen												
	Utility												
	Bedroom 1		1		1								
	Bedroom 2												
	Verandah and Terrace												
	Toilet 1			1									
	Toilet 2												
	<b>TOTAL</b>		<b>1</b>	<b>1</b>	<b>2</b>								
	UNIT LOAD IN WATT		60	20	20								
	TOTAL LOAD IN WATT		60	20	40								
	<b>Essential load(DG Set Supply)</b>		<b>0.12</b>										



ANIL KUMAR GUPTA