



Government of Rajasthan  
Office of Project Director

Rajasthan Urban Infrastructure Development Project  
AVS Building, Jawahar Circle, JLN Marg, Jaipur - 302017

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F3(106)(15) (1)/PMU/RUSDIP/SKR/WS-03/2008/ 958 - Dated: 12.04.2013

**Sub: Construction Management System - Circular No. - 7A**

**Ref: Regarding installation of minimum three star rating transformers up to 200 KVA.**

The Superintending Engineer (Comml.) JVVNL (Jaipur Vidyut Vitran Nigam Limited) has issued guidelines regarding installation of dry/ oil type transformers vide their order no. JPD/SE/(C)/XEN (C1)/F4(261)Pt.IX/D/1174 dated 25/7/12 (copy enclosed). The circular makes it mandatory to install a minimum star three level distribution transformers for the capacities up to 200KVA. The manufacturer of the transformer must have been authorized for star labeling by the BEE by declaring the electrical parameters (permissible losses at 50% & 100% loading etc).

It is therefore instructed that this circular shall be applied to all supplies of transformers up to 200 KVA (aluminium wound) to be received in the RUIDP Project with immediate effect.

If required, variations may be proposed for difference of rates on ongoing packages. The rate analysis for the present rates of 3 star rated aluminium wound transformers is enclosed for ready reference.

**Encl. 1. Circular  
2. Rate analysis**

- Sd -  
**(Dr Prithvi, IAS)**  
Project Director  
Dated: 12.04.2013

F3(106)(15) (1)/PMU/RUSDIP/SKR/WS-03/2008/ 959-05

Copy to following for information and necessary action:

1. Addl. PD / FA/ Dy. PD (T)/ Dy. PD (Adm.)/ SE-I/ II / III, PO (all)/ Sr. AO / All APOs / AAO/ PA to PD PMU, RUIDP, Jaipur.
2. SE, RUIDP, Zone- Jaipur/ Jodhpur/ Kota
3. Executive Engineer IPIU, RUSDIP (Concerned), Alwar, Baran-Chhabra, Barmer, Bharatpur, Bundi, Chittorgarh, Churu, Dholpur, Jaisalmer, Jhalawar-Jhalarapatan, Karauli, Nagaur, Rajsamand, Sawai Madhopur and Sikar.
4. Team Leader IPMC to prepare the list of good vendors and detailed specifications.
5. / Team Leader, DSC-I, Jaipur, DSC-II, Jodhpur, DSC-III, Kota, RUSDIP.
6. DSC-I, Alwar/ Dholpur/ Karauli/ Sawai Madhopur, DSC-II, Churu/ Jaisalmer/ Barmer/ Sikar and DSC-III, Chittorgarh/ / Rajsamand/ Bundi/ Baran, RUSDIP.
7. ACP, RUIDP, Jaipur to send by e-mail and put up the Guidelines on the website.

email to All TLs  
DSCs & PIUs

**Dy. Project Director (T)**

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Office note

Sub :- Installation of Star rating transformers up to 200 KVA capacity by private / other agencies


It has been made mandatory for private / other agencies to install a minimum star three level transformers for the capacities 63,100,160 and 200 KVA for which BEE has permitted star labeling by declaring the electric parameters ( permissible losses at 50 % and 100 % loading etc. ) vide JVVNL order no. JPD/ SE(C-1)/ F. 4(261) PF IX/D 1174 dt. 25.07.2012 (copy enclosed). So far, we have been purchasing / utilizing transformers of all capacities including transformers of capacities up to 200 KVA of normal copper wound as per IS- 2026 (part 1-5).

At present all transformer companies situated in Rajasthan are manufacturing star three level transformers of capacities up to 200 KVA of aluminium wound and BEE has also permitted them star labeling. Since star three level transformers up to 200 KVA of aluminium wound is better than normal copper wound transformers hence in view of orders issued by the DISCOM it would be in the interest of RUIDP to go for Star three level transformers up to 200 KVA of aluminium wound.

In the prevailing SOR -2008 and 2011 , Item of transformers of normal copper wound is existing where as item of Star three level transformer of aluminium wound is yet to be included. The immediate impact of introduction of Star level transformers would come in water supply scheme WS-03 of Sikar city where as its impact would likely to come in water supply schemes of other cities like Churu, Baran, Chittorgarh , Rajsamand , Sawai madhopur, Bharatpur etc. as well as SPS and STP of other cities . Rate analysis of Star level transformer is being done saperately.

Submitted,

Dy. PD (I)


  
13/03/2013  
Senior Electrical Engineer

Pl. examine


TL/PMC

  
13/3/2013

It is desirable to adopt the star rating as proposed. It may be difficult to enforce in on going contracts, but we should make the effort. In future we may mention it in the specifications also

  
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APD (WS-2)

  
2/4/13

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JAIPUR VIDYUT VITRAN NIGAM LIMITED  
OFFICE OF THE SUPERINTENDING ENGINEER (COMML.)

No. JPD/SE(C)/XEN(C.1)/F.4 (2-GD)P/X/D. 1174 dated 25/7/17

ORDER

Sub :- Installation of Star rating transformers in Residential/Commercial Buildings and its testing at Nigam's Central Testing Laboratory (CTL) prior to installation.

Guidelines for installation of Dry/Oil Type transformers in Residential/Commercial Buildings were prescribed vide order JPR5-537 dt. 04.03.09 and order JPR5-540 dt. 30.03.09.

The matter is reviewed in light of requirement prescribed by various notifications issued by Govt. of Rajasthan, Energy Deptt. and accordingly following instructions are hereby issued in partial modification of the order JPR5-537 dt. 04.03.09 JPR5-540 dt. 30.03.09:-

It will be mandatory for private/other agencies to install a minimum Star Three level distribution transformers for the capacities 63, 100, 160, 200 KVA from the regular suppliers/approved vendors of the Nigam, for which BEE has permitted star labeling by declaring the electrical parameters (permissible losses at 50% and 100% loading etc.). The list of latest approved vendors shall be provided by the SE (MM), JPD, Jaipur.

As & when BEE provides star labeling for higher capacities of distribution transformers and for dry type distribution transformers the same shall be applicable. Also if there is any change in electrical parameters made by BEE, same shall also be applicable.


All other terms and conditions of the order no. JPR5-537 & JPR5-540 will remain unchanged. It is enjoined upon all concerned to ensure strict compliance

24/7  
(S. C. Sharma)

Superintending Engineer (Comml.)

S No	Item	Unit	Qty	Rate	Amount
1	Supply, receiving, storing, inspection, handling, assembling, installing in correct aligned position, effecting proper connections, testing and commissioning of out door type oil filled transformer of Star three level as per BEE with aluminium wound with specification and confirming to IS 2026( Part 1-5) for following Ratings				
<b>1.1</b>	<b>25 KVA</b>	Each	1	40000	40000.00
	Add excise duty @12.36%			12.36%	4944.00
	SubTotal				44944.00
	Add VAT @ 5%			5%	2247.20
	SubTotal				47191.20
	Add provision for installation charges			10%	4719.12
	<b>SubTotal</b>				<b>51910.32</b>
	Add provision for overheads @10%			10%	5191.03
	Add provision for contractor's profit @10%			10%	5710.14
	Total				62811.49
	<b>Say</b>				<b>62811.00</b>
<b>1.2</b>	<b>40 KVA</b>	Each	1	55000	55000.00
	Add excise duty @12.36%			12.36%	6798.00
	SubTotal				61798.00
	Add VAT @ 5%			5%	3089.90
	SubTotal				64887.90
	Add provision for installation charges			10%	6488.79
	<b>SubTotal</b>				<b>71376.69</b>
	Add provision for overheads @10%			10%	7137.67
	Add provision for contractor's profit @10%			10%	7851.44
	Total				86365.79
	<b>Say</b>				<b>86366.00</b>
<b>1.3</b>	<b>63 KVA</b>	Each	1	75000	75000.00
	Add excise duty @12.36%			12.36%	9270.00
	SubTotal				84270.00
	Add VAT @ 5%			5%	4213.50
	SubTotal				88483.50
	Add provision for installation charges			10%	8848.35
	<b>SubTotal</b>				<b>97331.85</b>

	Add provision for overheads @10%			10%	9733.19
	Add provision for contractor's profit @10%			10%	10706.50
	Total				117771.54
	Say				<b>117772.00</b>
<b>1.4</b>	<b>100 KVA</b>	Each	1	100000	100000.00
	Add excise duty @12.36%			12.36%	12360.00
	SubTotal				112360.00
	Add VAT @ 5%			5%	5618.00
	SubTotal				117978.00
	Add provision for installation charges			10%	11797.80
	SubTotal				<b>129775.80</b>
	Add provision for overheads @10%			10%	12977.58
	Add provision for contractor's profit @10%			10%	14275.34
	Total				157028.72
	Say				<b>157029.00</b>
<b>1.5</b>	<b>160 KVA</b>	Each	1	145000	145000.00
	Add excise duty @12.36%			12.36%	17922.00
	SubTotal				162922.00
	Add VAT @ 5%			5%	8146.10
	SubTotal				171068.10
	Add provision for installation charges			10%	17106.81
	SubTotal				<b>188174.91</b>
	Add provision for overheads @10%			10%	18817.49
	Add provision for contractor's profit @10%			10%	20699.24
	Total				227691.64
	Say				<b>227692.00</b>
<b>1.6</b>	<b>200 KVA</b>	Each	1	190000	190000.00
	Add excise duty @12.36%			12.36%	23484.00
	SubTotal				213484.00
	Add VAT @ 5%			5%	10674.20
	SubTotal				224158.20
	Add provision for installation charges			10%	22415.82
	SubTotal				<b>246574.02</b>
	Add provision for overheads @10%			10%	24657.40
	Add provision for contractor's profit @10%			10%	27123.14
	Total				298354.56
	Say				<b>298355.00</b>

  
 Sr. Civil Engineer