



Final Amendments and clarifications in the RFP Identification No: (IT)/RAPDRP/33 titled "REQUEST FOR PROPOSAL (RFP) for selection of 'IT Implementation Agency' to assist the Rajasthan Discoms for implementation of IT infrastructure"

The following are final clarifications/ amendments which are inclusive of all such clarifications as circulated through e-mail and shall be applicable finally. The clarifications issued through email after 16.7.09 (i.e. after issuance of amendments of 86 pages) shall become null & void.

The queries regarding change in specifications of hardware, software, etc, has not been considered as the utilities are not empowered by PFC to change the same.

The suggestions about change in the SRS and its amendment have not been considered as the utilities are not empowered by PFC to change the same.

The queries regarding commercial terms & conditions have not been considered as the utilities are not empowered by PFC to change the same.

Sl. No.	Nature of Clarification	Particulars/ New clauses/ Amendments		
1.	Deletion of table of Specification for Database and Application Servers	At page No. 67 in amendment issued on 16th July 2009, the following Table given w.r.t the Servers is deleted.		
		S. No.	ITEM	Specifications
		1	Processor	Min. 1.6Ghz, 4CPU Dual Core processor, expandable to multicore
		2	L3Cache	Min. 12MB cache
		3	RAM	Min16GB RAM
		4	HDD	Min.2x146GB Serial attached SCSI (SAS) HDD, 15k RPM, with RAID controllers



		5	Ethernet	2xGigabit Ethernet ports based
		6	DVD ROM	1 no.
2.	Addendum for Specification of Database and Application Servers	<p>All Servers shall follow the specification as given in the SRS document and its amendment, however, -</p> <p>For Database Servers –Each server should be capable of minimum tpmC (Transactions Per Minute, Type c) rating of 500,000 for fully populated configuration. OEM should certify on its letterhead the estimated benchmark, in case it is not published.</p> <p>Application Servers – Each server should be capable of minimum SPEC Jbb 2005 rating of 600,000 bops (business operations per second) for fully populated configuration. OEM should certify on its letterhead the estimated benchmark, in case it is not published. The bidder shall offer the suitable servers considering the SRS document along with its amendment and the benchmark parameters as mentioned above as a referral point. The server OEMs must be a member of Transaction Performance Processing Council (TPC) or Standard Performance Evaluation Corporation (SPEC).</p> <p>The bidder has to ensure that the offered servers should be capable to maintain the performance as per the SLAs defined in SRS document along with its amendment and considering the scalability as defined in the amendment dated 16th July 2009.</p>		
3.	Clarification on quantity of servers	<p>It is clarified that the quantity of servers for Data Centre, DR Centre and Customer Care Centre has not been mentioned in Bid Annexure No 1 to 6 (issued with Amendment dated 16th July 2009), however, the same has been given in Bid Form No 1 and 2 for Data Centre and DR Centre respectively (issued with Amendment dated 16th July 2009).</p> <p>The quantity of servers for customer care centre is to be decided by the bidders and to be filled in Bid Form No 1,</p>		



		2 and 3.																					
4.	Clarification about Payment of LAN cabling system	<p>As already been clarified in Page No 9 of Amendment dated 16th July 2009 (as shown below for ready reference), the payment of LAN cabling system will be made as per the rates quoted per lot by the bidder. The lot size will be irrespective of total cable consumed in individual location. There shall be one lot for each location, and no payment over and above the lot cost will be paid on the plea that the actual consumption of the LAN cable is more than that envisaged while quoting the Lot cost</p> <p><i>"For LAN Cabling system per Sub Division/ per location rate i.e. one lot is to be quoted that shall be irrespective of quantity of cables etc. to be consumed in the Sub Division office , other office , DR centre and Data centre. The layout of each office for calculation of exact cable quantity is not possible to provide."</i></p>																					
5.	Deletion of table of Specification for Desktop	<p>At page No. 67 in amendment issued on 16th July'09, the following Table given w.r.t the Desktop is deleted.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>ITEM</th> <th>Specifications</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Processor</td> <td>Min. 2.4Ghz, 2x CPU Quad Core processor, expandable to multi-core processor</td> </tr> <tr> <td>2</td> <td>FSB</td> <td>Min. 800MHz</td> </tr> <tr> <td>3</td> <td>RAM</td> <td>Min.4GB RAM</td> </tr> <tr> <td>4</td> <td>HDD</td> <td>Min. 2x146GB SAS/SCSI HDD, with RAID controller</td> </tr> <tr> <td>5</td> <td>Ethernet</td> <td>Min. 2xGigabit Ethernet port</td> </tr> <tr> <td>6</td> <td>DVD ROM</td> <td>1No. Of DVD ROM</td> </tr> </tbody> </table>	Sl. No.	ITEM	Specifications	1	Processor	Min. 2.4Ghz, 2x CPU Quad Core processor, expandable to multi-core processor	2	FSB	Min. 800MHz	3	RAM	Min.4GB RAM	4	HDD	Min. 2x146GB SAS/SCSI HDD, with RAID controller	5	Ethernet	Min. 2xGigabit Ethernet port	6	DVD ROM	1No. Of DVD ROM
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6.	Addendum for Specification of Desktop	<p>Besides the specification of the Desktop/workstation given in the RFP and its amendment, it is added that the Processor offered for the desktop will be <u>Core 2 Duo</u>, with facility of <u>out of band remote management technology</u>. The aspect ratio of TFT monitor will be 4/3 or 16/9; however, the aspect ratio of 4/3 will be preferred.</p>																					
7.	Clarification for Distribution	<p>It is clarified that the quantity of Distribution switch for Data Center and DR center given in Bid Form No. 1, Bid Form No. 2, Bid Annexure 1 and Bid Annexure 3 will be <u>1 number only</u>. The quantity earlier mentioned should be</p>																					



	Switch Quantity	considered as deleted.
8.	Clarification for Layer II Switch Quantity	It is clarified that the quantity of Layer II switch for Data center and DR center in Bid Form No. 1, Bid Form No. 2, Bid Annexure 1 and Bid Annexure 3 will be <u>6 numbers only</u> . The quantity earlier mentioned should be considered as deleted.
9.	Clarification/ Addendum on Wall Mounting Rack for Routers and Switches	It is clarified and added that mounting of router and Layer II switch in a common wall mount rack at utility office i.e. Sub Division offices and other offices as mentioned in Part 1 & Part 2 of the bid are under the scope of bidder. The cost of wall mounting rack will be included in the cost of router.
10.	Deletion on G3 Architecture about Storage as mentioned in Amendment dated 16th July 2009	At Page No. 66 of the amendment issued on 16 th July'09, the following text is deleted and SRS document along with its amendment will be final. <i>"11. Clause 4, 4.2, Page 45, G3, Architecture.</i> <i>a. The host port and Backend port should be same and at least 64.</i> <i>b. The SAN storage should have 4 Gbps port speed at front end and 4 Gbps port speed at back end"</i>
11.	Clarification about Number of GPRS Modems	The following clarification is hereby issued - I. The number of GPRS Modems has been mentioned in Bid Annexure 1 to Bid Annexure 6 for RAPDRP towns as well as in the Bid sheet for Non RAPDRP locations (Refer Part 2 of Main RFP from Page 1050 onwards), also includes the requirement of modem at DCU i.e. at 33kV Substation level. II. For RAPDRP Towns, the number of DTs, HT and LT consumers are as per Appendix J of Main RFP. There will be one DCU per sub-station. III. For Non RAPDRP locations, it is clarified that the number of sub-stations will be equal to number of DCU



		<p>which is mentioned in the bid sheet of each circle in the main RFP (Refer Page 1050 onwards).</p> <p>IV. The number of meters/feeders emanating from the particular substation does not have any relevance for deciding the number of DCUs.</p>
12.	Clarification about Number of meters at Sub Station level	It is clarified that as per the prevailing practices, the numbers of meters at Sub Station level are in the range of 5-10 numbers. The same formula is applicable for non RAPDRP locations.
13.	Clarification about the meaning of Online?	It is clarified that the online data capture means the real time data acquisition with due consideration to the lapses in time elapsed for data capture from meter to DCU. The difference between online and real time will be around less than a minute.
14.	Clarification about Frequency of data required from different types of meters	It is clarified that that frequency of data required from different types of meters will be as per the SRS document along with its amendment except the frequency of data required from the 33 KV substation which will be online/ Real time.
15.	Reproduction of top paragraph of Page No. 69 of amendment issued dated 16 th July 2009	In the clarification /amendments issued on 16-07-09, the top paragraph of Page No. 69 was incomplete - Please read the top paragraph of Page No 69 of Amendment dated 16 th July 2009 as - <i>It is clarified that the supplier cannot sub-contract any part of its obligations under the Contract apart from the ITIA Roles viz. NSP, GSP & MDASP. It doesn't apply to taking application software/solution from any vendor, however, customisation and integration of the same is expected to be done by SI.</i>
16.	Clarification	It is clarified that the procedure of Demonstration of bidders' capability during bid evaluation will be as per the



	about Procedure of demonstration	procedure furnished by individual bidder in its technical bid.
17.	Clarification about Location & Address for Bandwidth availability and number of Routers & requirement of connectivity.	<p>For The Location & Address of Bandwidth requirement following clarification is issued -</p> <ol style="list-style-type: none">i. For RAPDRP Towns, the names of the Town and numbers of Sub Division offices have been given in the Bid Annexure 1, 3 and 5 (issued with amendment dated 16th July 2009). The number of the locations where connectivity will be required will be equal to the number of the routers which are given in the Bid Annexure 1, Bid Annexure 3 & Bid Annexure 5. For the location and number of other offices where the connectivity is required will be equal to the number of routers mentioned in the Bid Annexure 2, Bid Annexure 4 and Bid Annexure 6 (issued with amendment dated 16th July 2009).ii. The requirement given in Table 23, 24 and 25 of the Appendix G as already been clarified in Page No 11 of Amendment dated 16th July 2009. The same has been reproduced here for ready reference –<i>“In the Appendix G (List of offices for WAN connectivity), the offices mentioned in the column 6 i.e. c.c and stores are to be ignored for WAN connectivity as the same are within the subdivision premises. These offices (sub division and other offices) are situated within the municipal limits of the specified towns.”</i>iii. The information as mentioned above is sufficient to ask the rates from NSP / ISP. It would not be possible to provide the location and address of each sub division or other office for RAPDRP towns. The bidder has to keep certain contingencies in their bid.iv. For Non RAPDRP locations, name of Sub Division and other offices has been given in part 2 of Main RFP from Page No. 1025 to 1034. This is sufficient to get the rates from NSP / ISP.v. However, in order to facilitate the bidders, a list of telephones numbers of all locations of each discom has been given along with this document, which may be used to identify the locations of subdivisions and other offices for RAPDRP towns and non RAPDRP locations.
18.	Clarification	It is clarified that the factor of having more than one offices and identification of exact number of routers and



	<p>about Addresses of premises which are having more than one offices and Identification of Number of Routers</p>	<p>bandwidth connectivity will be finalised only at the time of infrastructure design with the successful bidder. This factor is not to be counted at the time of bid. The bid is to be designed and submitted considering the number of Sub Division Offices, other offices given in Annexure 1-6 in revised document for RAPDRP town (issued along with Amendment dated 16th July 2009) as well as given in the bid sheet for individual circles for non RAPDRP areas in the Main RFP.</p> <p>The bidder is not allowed to reduce the number of routers in its bid from the quantity given in the RFP and its amendments dated 16-07-09 which is mandatorily quantity for the bid and shall be considered for bid evaluation. The exact quantity of router and bandwidth for deployment will be finalized in consultation with the successful SI with due consideration of more than one office in a same premises.</p> <p>The number of offices at different level given in the main RFP in Appendix G from Page No. 358 onwards has been further optimized in Annexure 1-6 (issued with amendment dated 16th July 2009). The quantity given in the bid annexure 1 to bid annexure 6 shall be final for the purpose of bid submission and its evaluation.</p> <p>Certain bidders have misunderstood that all the locations given in the main RFP in Appendix G from Page No. 358 onwards will be provided connectivity. It is further clarified that for the purpose of calculating the number of Locations for connectivity and number of routers has been elaborated in SI. No 17 and this clause of this document.</p>
19.	<p>Clarification about requirement of IP PBX at Customer care</p>	<p>It is clarified that the IP PBX mentioned in the bid Annexure no. 1, 2 and 3 (issued with amendment dated 16th July 2009) shall also be utilized for Customer Care Centre.</p>



	centre	
20.	Clarification about mismatch of specifications of core switch, distribution switch and central router	<p>It is clarified that in the specification given for central router at page no. 52-53 of Bid amendment dated 16-07-09 has been further customized as per utility requirement at page no. 66 of Bid amendment dated 16-07-09, and there is no mismatch, however, both shall be complied.</p> <p>Likewise, the specification for core switch, distribution switch and Access switch given at page no. 37-41 of Bid amendment dated 16-07-09 has been further customized as per utility requirement at page no. 65 of Bid amendment dated 16-07-09, and there is no mismatch, however, both shall be complied.</p>
21.	Clarification about Number of Data links at DC & DR centre	<p>It is clarified that number and capacity of Data links at DC & DR centre will be designed by the bidder and will be submitted in the technical bid.</p>
22.	Clarification about Data Centre design	<p>It is clarified that the bidder has to submit the data centre & DR centre layout only suitable for tier-3 Data Centre. The construction of building and supply & installation of sub systems like building management, surveillance, fire suppression, rodent repellent, access control and electric fitting is out of the scope of bidder. The bidder shall submit in the technical bid (1) the load calculation for the entire DC & DR centre equipments, (2) the AC load along with heat dissipation for the proposed servers (3) the layout drawing indicating the hot and cold aisles (4) proposed position for all equipments including those which are not under the scope of bidder required for tier-3 Data Centre.</p> <p>The LAN within the DC & DR centre is in the scope of this bid. The scope of this bid includes the setup of Data Centre and DR centre equipments excluding the sub systems mentioned above.</p>
23.	Clarification	<p>It is mentioned and clarified that the size of Data centre being constructed by Jaipur Discom for server rooms is</p>



	about Size of Data Centre and DR centre	approx. 1500 sq ft. The size of the DR Centre being constructed by Jodhpur Discom is approx. 1200 sq ft.
24.	Clarification about Primary and Secondary Internet link from different ISP	It is clarified that the internet connectivity at Data centre is to be taken from different ISPs. For rest of the offices there is no restrictions of different ISP, however, it should be based on different technologies from those technologies defined in main RFP, SRS and their amendments.
25.	Addendum about Internet Connectivity	It is added in the scope of bidder to provide 2Mbps internet connectivity at DR Centre and the cost is to be quoted in Bid Form No. 2 (issued along with amendment dated 16 th July 2009) as a separate line item, the period of connectivity will be for three years, however, the period of connectivity may be extended for further 2 years on mutually agreed terms and conditions.
26.	Modification about DR Centre to DC Connectivity	It is amended that there will 5Mbps internet connectivity instead of 2mbps from DR centre to Data centre and the cost is to be quoted in Bid Form No.2 (issued along with amendment dated 16 th July 2009) instead of Bid Form No. 1 as a separate line item, the period of connectivity will be for three years, however, the period of connectivity may be extended for further 2 years on mutually agreed terms and conditions.
27.	Clarification about make Active and passive component	It is clarified that if any specific make has been mentioned in SRS document and its amendment for any specific item should be ignored. However, the specification mentioned in SRS document and its amendment will be complied.
28.	Clarification	It is clarified that the scope of document management is as per the SRS document along with its amendment. If



	about Scope of Document management and costing of portal. The requirement of separate workflow	<p>the bidder's design requires additional server over and above the minimum servers given in the RFP and its amendment dated 16th July 2009, he may include in his bid, however, the specification and implementation of Document management system should be complied, in any case.</p> <p>It is also clarified that the provision of the separate portal and workflow application depends upon the bidders' design. If bidder opts for separate portal and workflow application, the cost of the same will be included in the middle ware cost which should be intimated in the technical bid. The Discoms envisage separate portal and workflow application</p>
29.	Clarification about Time line for part 2	<p>It is clarified that the time line for part 1 & part 2 has been mentioned in the main RFP and its amendment dated 16th July 2009, however, it is once again clarified that the following time line will be applicable :</p> <p>Part 1: Project will be completed within 18 months from the date of award of contract.</p> <p>Part 2: Project will be completed within 24 months from the date of award of contract.</p>
30.	Clarification about Logical partitioning of application and database and Separate architect for three Discoms	<p>This is clarified that no separate physical server for each instance of application/database is allowed. However, the ITIA can have logical partition on the same physical server. This means that no separate physical server for each instance of application/database is allowed. However, the ITIA can have logical partition on the same physical server. The utility will accept a solution wherein the database has distinct logical partition for each Discom. The ITIA is free to choose the application architecture but it should be flexible enough to be segregated at no extra cost to Discom.</p>
31.	Clarification about Requirement of	<p>It is clarified that each of the sub division office shall act as the billing centre which will be on MPLS link and no separate IT setup is required other than as mentioned in RFP.</p>



	IT setup for proposed billing centre	
32.	Clarification about Requirement gathering phase and data availability from the Discom.	It is clarified that Requirement gathering phase and data availability will be separate for each discom.
33.	Clarification about Number of users	It is further clarified that as already mentioned in RFP that discom envisages enterprise wide license for all applications, there is no significance of number of users.
34.	Clarification about Additional functionality of MBC in vigilance activities	It is clarified that at site the vigilance office may access the system through the connectivity available with him.
35.	Clarification about Number of billing database and volume of data in billing	It is clarified that the volume of data is in accordance with the number of consumers as defined in part 1 & part 2. The billing databases available with Discoms may be Oracle, FoxPro, COBOL, SQL, and even manual data.



	system	
36.	Clarification about Billing Cycle and sizing of MBC module.	It is clarified that the sizing of the system is irrespective of billing cycles whether monthly or bimonthly. It is clarified that the total number of consumers for billing purpose are inclusive of the consumers mentioned in the part 1 and part 2 of the bid. The sizing of the system is to be done in accordance with the total consumers and the scalability factor as defined in the amendment issued on 16 th July 2009.
37.	Clarification about Customer care at Sub division level	It is clarified that there is no separate infrastructure for customer care at Sub Divisional level
38.	Clarification about Separate web self service and separate portal for each Discom	Please refer RFP and its amendments.
39.	Clarification about Definition of Semi Urban and Urban area for the purpose of DGPS survey	It is clarified that all RAPDRP Towns are Urban and the locations covered in non RAPDRP areas are Semi Urban for the purpose of DGPS Survey.
40.	Clarification	The bidder has to submit the updation procedure of land base data in his proposal. During the survey, land use



	about Updation of land base data and capturing of land base details during survey	will be captured as a separate layer.
41.	Clarification about what is the definition of project area	The following are clarified - Project area for RAPDRP part is Town. Project area for Non RAPDRP part is Circle.
42.	Clarification about MDAS Related queries	These are already been replied. Refer RFP and its Amendments.
43.	Clarification about Requirement of 2/5KVA UPS at Sub division level	<p>It is clarified that as data acquisition server at Sub Division level has already been deleted vide bid amendment issued on 16-07-09; the requirement of 2/5KVA UPS mentioned for these servers are hereby deleted. If there is some reference of this UPS in any bid form or Annexure 1-6 (issued along with amendment dated 16th July 2009), it should be considered as deleted.</p> <p>However the following shall be applicable:</p> <p><u>Addendum about Requirement of UPS at Sub division level for Routers</u></p> <p>In order to provide uninterrupted supply to router and layer II switches at Sub Division office in both part 1 & part 2, one UPS of 2 KVA capacity as per specification given in section G3, table no. 21.3 of SRS document is to be provided, accordingly the number of 2 KVA UPS will equal to the number of routers mentioned for sub-</p>



		<p>division offices. Accordingly one line item i.e. 2 KVA UPS should be added in the respective Bid sheet wherever router is mentioned in sub division offices for both part 1 and part 2.</p> <p>Likewise, in order to provide uninterrupted supply to the router and layer II switches at other offices in both part 1 & part 2, one UPS of 600 VA capacity as per the specification given in section G3, table no. 21.2 of SRS document is to be provided, accordingly the number of 600 VA UPS will be equal to the number of routers mentioned in other offices. Accordingly one line item i.e. 600 VA UPS should be added in the Bid sheet wherever router is mentioned in other offices for both part 1 & part -2.This 600 VA UPS will be in addition to the requirement of UPS for workstation/ PC.</p>
44.	Clarification about Discrimination in the specification of part 1 & part 2	<p>It is once again clarified that there is no discrimination in the specification for any items inclusive of all hardware, equipments, services, etc., for part 1 & part 2 of RFP. In case if any discrimination observed/ mentioned between both, the specifications meant for Part 1 shall be applicable.</p> <p>It is further intimated that the specifications for the laser printer for non RAPDRP areas will be as per Item No. 19.3 of Section G3 of SRS document.</p>
45.	Clarification about discrimination of quantity of servers in Bid Form No 1 and 2 issued with amendment	<p>It is clarified that in Bid Form No 2, the quantity of "Application Servers for Others" and "Anti-Virus Server/ DNS/ anti Spam/ Active Directory/ Identity & Access Management Servers" should be considered as 8 (number 8) each respectively replacing the quantity mentioned in the Bid Form no 2 (issued with the amendment dated 16-07-09).</p> <p>It is clarified that the bidder is not required to quote for any software services (i.e. application and database) , development of web portal, web self service and development of commercial database of consumers in the Bid Form No 2 (i.e. for DR Centre)</p>



	dated 16 th July 2009	
46.	Clarification about the quantity in the Bid Form No 1 and 2 issued with amendment dated 16 th July 2009	<p>It is clarified that if designs of bidder envisage additional items for DC and DR Centre including the hardware and software over and above those which are mentioned in the Bid Forms No 1 & 2, then the bidder may quote for such additional quantity making separate line items in the respective bid forms. The evaluation of bid will be made accordingly. It is further clarified that as per the condition of the bid, the bidder is required to furnish the un-priced bill of material (BoM) along with technical bid as such all such additional items should be included in the un-priced BoM with quantity and specifications. There should be no difference in the items in unpriced BoM and the priced bid.</p> <p>Likewise, if any of the items although mentioned in Bid Annexure 1 -6 (issued with amendment dated 16th July 2009), however, not appeared as line item in respective bid forms (Bid Form No 1 to 4), the same are to be included in the bid form as line item by the bidder with due consideration of any amendment of quantity in the Bid Annexure 1 to Bid Annexure 6 through this document.</p>
47.	Clarification about GIS Mapping, Consumer indexing etc for Non RAPDRP areas	<p>For Non RAPDRP locations, the area of circle should not be considered equivalent to the quantity of the satellite imagery given in the bid sheets of main RFP. The quantity of the satellite imagery mentioned in the table B i.e. Cost of DGPS survey, Consumer indexing & Asset Mapping in the bid sheet of main RFP from page No 1050 onwards has been considered only 20% of the geographical area of the circle. As such, the quantity of the creation of Base map and DGPS Survey of Project area in item No. 4.0 of the said table will be 5 times of the area of satellite imagery. This may be taken into consideration while bidding. Further, the item no 1.0 of table B i.e. Cost of DGPS survey, Consumer indexing & Asset Mapping given for respective circle should be read as "Procurement of Satellite Imagery and creation of Base Map (i.e. 5 times of quantity of Satellite Imagery) of project area", instead of original text as mentioned in main RFP i.e. "Procurement of Satellite Imagery and</p>



creation of Base Map of project area”.

For example, at page No 1055 of main RFP, the quantity of satellite imagery under Item No 1.0 for Alwar circle has been mentioned as 1643 Sq KMs as such the quantity of item No 4.0 i.e.” Preparation of digitized electrical network on the base map in the pre-defined scale with features and attributes of assets and consumers collected through DGPS/door-to-door survey for GIS application shall be $1643 \times 5 = 8215$ Sq Kms. This formula shall be applicable for all Project areas of Non RAPDRP locations.

Refer following table (e.g. Alwar Circle) for preparing response to the bid for all project areas of Non RAPDRP locations. In the below table, the quantity of 1643 sq km represents the quantity of satellite imagery to be provided, however, a creation of base map and preparation of digitized electrical network on the base map in the pre-defined scale with features and attributes of assets and consumers collected through DGPS/door-to-door survey for GIS application will be 5 times of the quantity of satellite imagery.

B Cost of DGPS Survey, Consumer Indexing & Asset Mapping

Item No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.)
1.0	Procurement of Satellite Imagery and creation of Base Map (i.e. 5 times of quantity of Satellite Imagery) of project area	Sq. Km.	1643		
2.0	Locating co-ordinates (Latitude-Longitude) using DGPS, collection/updation of attribute database of following electrical network assets through field survey and development, codification & indexing with their upstream source of supply:				
a)	400 kV,220 kV, 132 kV, 33 kV Grid /substations with preparation of Single Line Diagram (SLD)	Nos.	121		



	b)	HT (33, 11 kV) overhead lines/underground cables alongwith associated line equipments such as tower/Poles, Feeder Pillar box, RMUs, Distribution Transformers, Capacitors etc.	Kms	6246		
	c)	LT overhead lines and underground cables alongwith associated equipments such as poles, feeder pillar boxes, street lights etc.	Kms.	6000		
	3.0	Collection/updation of consumer attribute database through door-to-door field survey and development, codification & indexing of the consumers with respective upstream source of supply (poles/feeder pillar boxes/etc.).	Nos.	290921		
	4.0	Preparation of digitized electrical network on the base map in the pre-defined scale with features and attributes of assets and consumers collected through DGPS/door-to-door survey for GIS application.	Sq. Km.	1643x5 = 8215		
	Total (B)					

* Taxes & Duties should include CST, VAT, Sales Tax, Service Tax, Entry Tax, Excise Duty etc.

In order to avoid undue expenditure to procure satellite Imagery for Hilly areas, rivers, desert area, forest, unpopulated/less populated area, etc, the quantity of satellite imagery, in the Non RAPDRP locations has been considered as 20% of actual geographical area of circle, however, it may be extended as per the approval of the Discom and to meet the field requirements. Instead of using satellite imagery for preparation of Base map of entire circle in non RAPDRP locations, the bidder may use any reliable & accurate means to achieve the following accuracy levels, for semi urban areas i.e. Non RAPDRP areas

1. Base Map (Land base) – Data accuracy needed is ± 2 meters
2. Electrical Asset location accuracy –
 - a. Over ground assets ± 2 meters accuracy;



		<p>b. Underground assets - \pm 50 centimetres accuracy</p> <p>3. Consumer data – Same as accuracy R-APDRP areas.</p> <p>The alternative means may be SOI TOPO sheet, local map, revenue map, Google earth or any other suitable reliable map for remaining areas for which satellite imagery has not been considered. The cost of the same may be included in the item No 4 of table B of Bid sheet as shown above.</p> <p>The bidder has to ensure that all electric assets and the consumers should be covered while GIS survey and Mapping is done and there shall be no omission on the ground of tough terrain, non availability of satellite imagery or non access due to any reason. It is clarified that in the Discom area specifically in non RAPDRP areas there may be a terrain issue. There are so many areas especially in Jodhpur Discoms which are covered in the THAR desert, the consumers are scattered with very thin density especially in Jaisalmer, Bikaner and Barmer areas the density is much lesser than the national average. In Jodhpur and also in other Discoms there are large cantonments, Border areas and sensitive areas. Some of the areas may require accessibility permissions from different authorities other than the authorities from Discoms. The permission of access will be arranged by the Discoms.</p>
48.	Clarification about 66/ 33KV Sub Station & 66/11KV Sub Station	It is further clarified that 33KV Feeder and 11 KV feeders are emanating from 220KV and 132 KV Grid stations that shall be applicable for the case of state of Rajasthan. There is no 66/33 KV and 33/11 KV sub stations existing in the state of Rajasthan.
49.	Clarification	It is clarified that the bid format given for RAPDRP town in Main RFP has already been replaced by the Bid Form



	about DGPS Cost Survey in Form No 5 of Bid Form No 1 to 7 for RAPDRP Town (refer Amendment dated 16 th July 2009) and Bid sheet given from Page No 1055 onwards in Main RFP	<p>No 1 to 7 issued along with amendment dated 16th July 2009. The bidder has to quote cost of DGPS survey, consumer indexing and asset mapping in the Form No 5 provided in Bid Form No. 1 to Bid form No. 4 of formats for RAPDRP towns.</p> <p>The cost of DGPS survey, consumer indexing and asset mapping for Non RAPDRP locations are to be provided in the original forms given in Main RFP. The pricing pattern for both part 1 and part 2 are now common except the clarification as mentioned in Sl. No 48 of this document for Non RAPDRP locations.</p> <p>The cost of technical audit of substation will be included in Item No. 2 (a) and the cost of technical audit of all DTs of project areas are already considered in Item. No. 2 (b) of Form No 5 of Bid forms nos. 1-4 for Part 1 and in the table B of bid sheet of Part 2 (available from page no. 1055 onwards in Main RFP).</p>
50.	Clarification about quantity of sq km for DGPS survey in RAPDRP town	The area of coverage for each town has been given in the Appendix F of main RFP (Refer Table 22, Page Nos. 351 – 357), however, the area of coverage may vary as per actual for which it is clarified that the bidder has to ensure that entire actual area of the RAPDRP towns are covered while doing the DGPS survey.
51.	Clarification about survey of underground cabling	It is clarified that to attain accuracy in the underground cable survey the vendor will use appropriate proven technology like Ground Penetration RADAR (GPR) Methodology.
52.	Clarification	Most of the bidders are asking for the change or alternative specification of hardware and other items. Whatever



	about Specification of items	specifications are envisaged in this bid, the bidders are required to refer to SRS document and its amendment. No item having alternative specification or deviated specification from the specifications given in SRS document and its amendment will be considered provided that the specifications of certain items that have been mentioned in the main RFP or its amendment dated 16th July 2009 are to be complied.
53.	Clarification about Location of Data Centre and DR Centre and customer care centre	<p>It is further clarified that the following -</p> <p>Location of Data Centre : JAIPUR</p> <p>Location of DR Centre : Jodhpur</p> <p>There is no Data Centre and DR Centre in Ajmer Discom.</p> <p>The customer care centre will be located at Ajmer, Jodhpur and Jaipur</p> <p>The entire state i.e. RAPDRP towns and Non RAPDRP locations will be served through aforesaid data centre and DR Centre. If any, reference about the main RFP and amendment issued dated 16th July 2009, having conflicts with the above statement shall be considered deleted.</p>
54.	Clarification about Conflict between appendix L , Annexure 1-6 and Bid form no. 1-7 (issued with amendment dated 16 th July 2009)	The quantity mentioned in the Bid Annexure 1-6 and Bid form No. 1- 7 (issued along with amendment dated 16 th July 2009) and modified through this document will be final. The appendix L will not be referred for quantity.
55.	Clarification	It is further clarified that there is single bid security of Rs 20 Crores for the entire bid.



	about Bid Security	
56.	Clarification about question on additional service – Question: In case the bidder's design requires additional servers than the mandatory quantity, will the payment be made for the actual quantity deployed or shall be made as per the mandatory bid quantity only?	Refer Page Nos. 8 and 9 of Amendment dated 16 th July 2009.
57.	Clarification about	It has been envisaged that the connectivity charges are for three years in the bid, however, the commencement of bandwidth at specific locations will be decided with the successful bidder as per the timeline of completion.



	commencement of network connectivity	The town wise plan for the connectivity may be submitted by the bidders for both Part 1 and Part 2.
58.	Clarification of Number of CVs to be provided along with bid	<p>It is clarified that the bidder has to provide the number of CVs of all the personnel who shall be deployed dedicatedly to the project from SI, NSP, GSP and MDASP role. The requirement of the number of persons to be deployed dedicatedly (not shared resources) in addition to those specified in the Appendix M of main RFP will be assessed by SI.</p> <p>The bidders are requested to refer Appendix M - Estimated Manpower Requirement of main RFP (Page No 1017) which mentions minimum number of resources to be deployed dedicatedly.</p>
59.	Clarification about cost of MS Office and Windows Vista	It is clarified that the Cost of enterprise wide license for MS Office and Windows Vista as already been mentioned in amendment dated 16 th July 2009 and is to be quoted in the data centre Bid Form No. 1 (issued along with amendment dated 16 th July 2009). This cost should not be included in the cost of PC.
60.	Clarification about VSAT to be used as back up connectivity for WAN.	In case of non availability of Secondary link, VSAT connectivity can be used provided the cost of VSAT shall be borne by the Bidder.



61.	Clarification of Network Connectivity DT and Sub station to Data Centre GPRS for 3 years	<p>It is clarified that the provision of providing SIM CARD and connectivity for GPRS modem is under the scope of bidder. The connectivity charges shall be included in the sub division office cost (i.e. Form No 3) as Bandwidth Charges. The revised table for Bandwidth charges for RAPDRP Part for Sub Division office will be as mentioned below which shall be applicable for Bid Form No 1 to 4 (issued with amendment dated 16th July 2009).</p> <table border="1" data-bbox="517 443 2033 1126"> <thead> <tr> <th>Item Description</th> <th>Type (Refer SRS Document for exact Technical Specifications)</th> <th>Unit</th> <th>Quantity</th> <th>FOB (per unit)</th> <th>Freight & Insurance (per unit)</th> <th>Excise Duty</th> <th>Excise Duty (per unit)</th> <th>CST/ VAT</th> <th>Sales & other taxes (per unit)</th> <th>Any other levies (per unit)</th> <th>Total Cost (per unit)</th> <th>Total Cost</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Rs.</td> <td>Rs.</td> <td>%</td> <td>Rs.</td> <td>%</td> <td>Rs.</td> <td>Rs.</td> <td>Rs.</td> <td>Rs.</td> </tr> </thead> <tbody> <tr> <td>Bandwidth Charges</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Network Connectivity Charges for MPLS Primary Link</td> <td></td> <td>PER YEAR</td> <td>3 YEARS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Network Connectivity Charges for Secondary Link</td> <td></td> <td>PER YEAR</td> <td>3 YEARS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Network Connectivity DT and Sub Station to data centre GPRS for 3 years</td> <td>GPRS/CDMA</td> <td>PER LOCATION FOR 3 YEARS</td> <td>As per quantity of Modem in Sub Division</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Likewise, the connectivity charges and provision of the SIM card for GPRS modems will be included for three years in the Subdivision and other offices costs for Non RAPDRP areas.</p>	Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost					Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.	Bandwidth Charges													Network Connectivity Charges for MPLS Primary Link		PER YEAR	3 YEARS										Network Connectivity Charges for Secondary Link		PER YEAR	3 YEARS										Network Connectivity DT and Sub Station to data centre GPRS for 3 years	GPRS/CDMA	PER LOCATION FOR 3 YEARS	As per quantity of Modem in Sub Division										Total												
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62.	Clarification of GIS data	Since the Service Oriented architecture (SOA) has been envisaged and all users will be provided with full functionality user license, the updation of GIS data will take place automatically as per the requirement of the																																																																																											



	updatation after Go Live every year	process.
63.	Clarification about UPS in Bid Forms 1 and 2 issued with amendment dated 16 th July 2009	<p>It is clarified that deleting all earlier references, now the rating for Critical Load UPS and Service Load UPS to be considered as minimum 2 X 100 KVA microprocessor based and minimum 2 X 20 KVA respectively for Bid Form No 1 and 2 (i.e. for Data Centre and DR centre respectively).</p> <p>Regarding Critical Load UPS, it is further clarified that if design of the bidder envisages higher capacity of UPS more than 2 X 100 KVA, then the bidder has to quote accordingly. However, in any case, there will be no single UPS.</p>
64.	Clarification on installation of IP phones	<p>It is clarified that the 144 IP phones which have been asked at the Centralised Customer Care Centre will not be installed at Customer care centre, however, will be distributed to the subdivision and other offices at the time of installation.</p>
65.	Clarification on ambiguous quantity of Layer II switch in Jodhpur Discom and Ajmer Discom in Non RAPDRP locations	<p>It is clarified that the quantity of Layer II switch w.r.t Non RAPDRP locations in Jodhpur Discom and Ajmer Discom has been mentioned incorrectly in the respective bid sheet of Main RFP. The quantity of Layer II switch has been mentioned less than the number of routers which seems to be illogical. It is therefore clarified that the quantity of the Layer II switches will be equal to the number of routers mentioned for Non RAPDRP locations for Jodhpur and Ajmer Discoms. Refer "Table A – Sub Division and other offices cost" in bid sheets of Main RFP from page no. 1110 onwards.</p>
66.	Clarifications	<p>It is clarified that the technical proposal for entire bid will be one having different section for part 1 & part 2 in a</p>



	about mode of Bidding	<p>separate envelope. The financial proposal shall be in accordance with the item No 2 "General Terms" of the amendment issued on 16-7-09. The financial proposals and technical proposals will be contained in separate envelopes and both the envelopes will be kept in a Big size envelope. The DD for Rs 10,000 payable to AO (TW), JVVNL, Jaipur towards cost of tender document and the bid security bank guarantee of Rs. 20 Crores to be contained in the separate envelopes and pasted on the outer side of the main bid envelope.</p> <p>Before opening of the main bid envelope, the envelopes of bid security and tender cost will be opened. In case of absence of bid security and tender (if any), the main bid envelope will not be opened.</p> <p>The complete RFP, the SRS document and their amendments are to be submitted along with the bid duly signed and stamped by the bidder.</p>
67.	Clarification about project office of bidder	<p>It is clarified that the vendor shall also establish central project office at its own at Ajmer, Jodhpur and Jaipur Discoms preferably nearby the main offices of these Discoms. It is expected a bidder shall open a satellite office in project area of Part 1 and Part 2 as mentioned in the bid document.</p>
68.	Clarification about Pilot area	<p>It is clarified that the pilot areas in Jaipur Discom, Jodhpur Discom and Ajmer Discom will be Jaipur city, Jodhpur city and Ajmer city respectively.</p>
69.	General Clarification in compliance with SRS document and its amendment	<p>It is clarified that all the functionalities given in the SRS document and its amendment will be complied with, except those which have been modified in the RFP.</p> <p>If designs of bidder envisage additional software or hardware then that has to be deployed by the bidder without diluting the SRS document and its amendment.</p>
70.	Clarification about the	<p>It is clarified that the qualification possessed by the OEM vendor/ software vendor will not be counted for evaluation of the bidder. Only the qualification possessed by the bidder i.e. SI will be counted for evaluation of</p>



	Qualifying requirements and its evaluation	the bid.
71.	Clarification about the software pricing	It is clarified that for the application software pricing, the unit of pricing is lot and not the number. The lot cost means the total cost of ownership (TCO) for individual application software. The single cost of database software must be quoted which shall include database software charges for all the database servers.
72.	Clarification about un priced Bill of material (BoM)	It is once again clarified that the bidder will provide un-priced bill of material along with the technical proposal which shall include all hardware and services with its tenure. This BoM shall be separate for Data centre, DR centre, Customer Care centre and each town and location of RAPDRP towns and Non RAPDRP areas.
73.	Clarification about Post bid clarification and furnishing supplementary information by the Bidder	It is clarified that bidder should clearly examine the requirement of the documents to be furnished along with the bid. The Discoms will not ask to submit any additional documents to bidder after opening of the Bid. In case of non availability of requisite information/ documents, the bid will be evaluated as per information available with the bid only. Likewise, subsequent to opening of the bid, the bidder will not furnish any supplementary information on his own as such action will may lead to rejection of the bid.
74.	Clarification about providing protocol of existing system meters	It is clarified that the Discoms will provide either the memory map of ModBus protocol of existing system meter else the existing system meter will be replaced with the ModBus/ open protocol meter having RS 485 port.



75.	Amendment in specification of Tape Library	<p>The specification of the tape library is hereby amended up to the extent mentioned in the following table</p> <p>The below table provides the amendment in specification of Table Library -</p> <table border="1" data-bbox="591 443 1924 1378"><thead><tr><th data-bbox="591 443 725 544">Sl. No</th><th data-bbox="725 443 987 544">SRS Page Section/ No/ Clause No.</th><th data-bbox="987 443 1458 544">Existing Text as per SRS Document</th><th data-bbox="1458 443 1924 544">New Text</th></tr></thead><tbody><tr><td data-bbox="591 544 725 1378">1</td><td data-bbox="725 544 987 1378">G3/ 51/ 10 Bullet No 1</td><td data-bbox="987 544 1458 1378">The tape library offered shall be robotic controlled to identify media, load tape media into drives and put them back into corresponding shelves automatically and should be configured in a "No Single Point of Failure" configuration like all other SAN infrastructure components.</td><td data-bbox="1458 544 1924 1378">The tape library offered shall be robotic controlled to identify media, load tape media into drives and put them back into corresponding shelves automatically and should be configured in a "No Single Point of Failure" configuration like all other SAN infrastructure components. No single Point of Failure can exclude the robotic arm, provided the vendor stocks a spare robotic arm at site and deploy the same as when needed at no cost to Discom.</td></tr></tbody></table>				Sl. No	SRS Page Section/ No/ Clause No.	Existing Text as per SRS Document	New Text	1	G3/ 51/ 10 Bullet No 1	The tape library offered shall be robotic controlled to identify media, load tape media into drives and put them back into corresponding shelves automatically and should be configured in a "No Single Point of Failure" configuration like all other SAN infrastructure components.	The tape library offered shall be robotic controlled to identify media, load tape media into drives and put them back into corresponding shelves automatically and should be configured in a "No Single Point of Failure" configuration like all other SAN infrastructure components. No single Point of Failure can exclude the robotic arm, provided the vendor stocks a spare robotic arm at site and deploy the same as when needed at no cost to Discom.
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			2	G3/ 51/ 10 Bullet No 3	Bidder shall supply sufficient no blank new tape media. The library shall be configured with minimum 6 x LTO Gen4 drives and shall be scalable to 12 LTO Gen4 drives in the same frame without stacking. The tape library shall support at least 100 drives and 5000 slots.	Bidder shall supply sufficient no blank new tape media. The library shall be configured with minimum 6 x LTO Gen4 drives and shall be scalable to 12 LTO Gen4 drives in the same frame without stacking. The tape library shall support at least 44 drives and 1000 slots.
			3	G3/ 51/ 10 Bullet No 4	The media shall have a minimum uncompressed capacity of 400 GB and 800 GB compressed.	The media shall have a minimum uncompressed capacity of 800 GB and 1.6TB compressed

It is mentioned herewith that subsequent to issuance of amendment dated 16th July 2009, we have received a set of new queries from most of the bidders. We have made all out efforts to accommodate the most of queries which may attribute to design and pricing of the bid, however, all individual queries cannot be replied with a view the Discoms are not empowered to change in the G3 section of SRS document and its amendment and the commercial terms and conditions.



It is further intimated that subsequent to issuance of this document, the bidders are requested to adhere with the RFP and its amendments. If bidders take any assumptions beyond this amendment issued on the plea that his query is not settled will not be considered. The Discoms reserve the right to consider or not consider any of such assumptions based upon its merit provided such assumptions do not have any materialistic effect to the SRS document and its amendment.

It is also clarified that subsequent to opening of bid, if any empanelled bidder claims that due to non reply of his queries he was not able to bid then such claim will not be accepted and entertained by the Discom.

As already mentioned, no counter queries will be accepted subsequent to this amendment. It is further clarified that if PFC and Ministry of Power announce any changes to SRS and RFP (along with its amendment) till 31st July 2009 till 1700h that will be considered as part of this bid for which bidders will be intimated by the SE (IT & CRP), Jaipur Discom through email latest by 1st August 2009 till 1700h.

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