

Table – 1

Amendment no. (1) in Bid Document for 2 MWp Solar Power Plant along the Railway track in Delhi- Ambala.

(NIT No.: REMCL/CO/Solar/2 MW/NR/2019/01 dated 12.01.2019.)

S. No.	Document/ Clause	Topic	Description as per existing Clause	Amendment done/ To be read as
1.	RFQ definition- clause no.1.28, RFP definition- Clause no.1.29, PPA clause-nnn.	Effective Date	“Effective date” shall mean the date of signing of Power Purchase Agreement (PPA) ...	“Effective date” shall mean the date of issuance of LOA ...
2.	RFQ-Introduction – Para-2, RFP- Clause no.1.4.	RFQ- Introduction RFP-Bid Capacity	In the above backdrop, Indian Railways is planning to set up a ground mounted 2MWp Solar plant in tariff based competitive bidding through developer mode along the Railway Track at Delhi – Ambala section Near DIWANA (NR). The power generated from this solar power plant would be required to be injected into the 132 KV , 3 Ph AC Railways Transmission System near DIWANA(NR). The Bidder shall apply for 2 MWp Solar capacity ...	In the above backdrop, Indian Railways is planning to set up a ground mounted 2 MWp with variation upto ± 25 % Solar plant in tariff based competitive bidding through developer mode along the Railway Track in Delhi – Ambala section near DIWANA station of NR. The power generated from this solar power plant would be required to be injected into the 132 KV ,3 Ph AC Railways Transmission System at DIWANA TSS (NR)] The Bidder shall apply for 2 MWp ± 25 % Solar capacity ...

3	RFQ- Clause no.1.1.1 (e), RFP- Clause no.1.1 (e)	Introduction	The solar project will be provided in Railway land.	<p>Solar project will be provided on Railway land for which land will be provided by Railways at a nominal land use charges of Rs. 1/- (Rupee one) per annum for the entire site. These charges shall be paid by the successful developer to NR.</p> <p>Suitable Land agreement will be signed by the developer with NR within 45 days from LOA.</p>
4	RFQ- Clause no.1.1.1 (f) –(b) , RFP-Clause no.1.1(f)- (b) - Background, PPA , Schedule (A) –(b)	Power Evacuation	Protection Scheme involved in Railway 25 kV Traction system.	<p>Protection Scheme involved in Railway 132 kV Traction system.</p> <p>New clause added.</p> <p>(iii) The specification of all 132 kV equipments should be as per RDSO/CORE/Railways specification and from RDSO/CORE/Railways sources.</p> <p>(iv) Circuit breaker, transformer , isolator etc on 132 kV side should be virtually connected status wise to division control through SCADA. SPD to provide status through underground cabling to RTU and its commissioning to be ensured by NR.</p>
5	RFQ- Clause no.2.26	Financial Closure or Project Arrangements	The Project Developer shall report Project Financing Arrangements for the Projects within 7 months from the Effective date of PPA.	The Project Developer shall report Project Financing Arrangements for the Projects within 2 months from the Effective date i.e. issuance of LOA.
6	RFQ-APPENDIX-IX & APPENDIX-X	APPENDIX-IX & APPENDIX-X	APPENDIX-IX & APPENDIX-X	<p>APPENDIX- IX- Indicative land map</p> <p>Updated land map is attached.</p>

				APPENDIX- X- Indicative Schematic Diagram for Power Evacuation																		
				Updated Schematic diagram is attached.																		
7	RFQ- Annexure-XII	Format For Technical Criteria	We “Financial Closure or Project Financing Arrangement” that the following details shall be furnished within 7 months from effective date of issuance of LOA	We “Financial Closure or Project Financing Arrangement” that the following details shall be furnished within 2 months from effective date of issuance of LOA																		
8	RFQ clause no.2.25, RFP- clause no. 2.21	Commercial Operation Date (COD)	The Commissioning of Project: This will be on a date, when the Project meets the criteria defined for project commissioning. NR may authorize any individual or committee or organization to declare the project commissioned on site. Any infirm power produced and flowing into the grid before COD shall not be at the cost of NR under this scheme and developers will be free to make short-term sale to any organization or individual as per regulations. NR may agree to buy this power as a trader if they find it viable outside the Scheme.	The Commissioning of Project: This will be on a date, when the Project meets the criteria defined for project commissioning. NR may authorize any individual or committee or organization to declare the project commissioned on site. Any infirm power produced and flowing into the grid before COD shall not be at the cost of NR under this scheme and developers cannot sell this power to any organization or individual. NR has the right but not obligation to buy this power it viable as per clause no.16.2.3.																		
9	RFP – Clause no. 1.2.3 – 1.2.3.2 (iii)	Evaluation of Financial Proposal	In this step, evaluation will be carried out based on tariff quoted by the Bidders. Tariff has to be less than Rs 2.93 / kWh . Those bids where tariff quoted is more than Rs 2.93 / kWh shall be summarily rejected.	In this step, evaluation will be carried out based on tariff quoted by the Bidders. Tariff has to be less than Rs 3.39/kWh . Those bids where tariff quoted is more than Rs 3.39/kWh shall be summarily rejected.																		
10	RFP – clause no. 1.2.3.3 (ii)	Ranking of bidders after Financial Bid evaluation	<table border="1"> <thead> <tr> <th>Bidder</th> <th>Submitted Financial bid</th> <th>Ranking</th> </tr> </thead> <tbody> <tr> <td><u>B1</u></td> <td>Rs. 2.10 (Tariff in Rs./ kWh)</td> <td><u>L1</u></td> </tr> <tr> <td><u>B2</u></td> <td>Rs. 2.20 (Tariff in Rs./ kWh)</td> <td><u>L2</u></td> </tr> </tbody> </table>	Bidder	Submitted Financial bid	Ranking	<u>B1</u>	Rs. 2.10 (Tariff in Rs./ kWh)	<u>L1</u>	<u>B2</u>	Rs. 2.20 (Tariff in Rs./ kWh)	<u>L2</u>	<table border="1"> <thead> <tr> <th>Bidder</th> <th>Submitted Financial bid</th> <th>Ranking</th> </tr> </thead> <tbody> <tr> <td><u>B1</u></td> <td>Rs. 2.42 (Tariff in Rs./ kWh)</td> <td><u>L1</u></td> </tr> <tr> <td><u>B2</u></td> <td>Rs. 2.54 (Tariff in Rs./ kWh)</td> <td><u>L2</u></td> </tr> </tbody> </table>	Bidder	Submitted Financial bid	Ranking	<u>B1</u>	Rs. 2.42 (Tariff in Rs./ kWh)	<u>L1</u>	<u>B2</u>	Rs. 2.54 (Tariff in Rs./ kWh)	<u>L2</u>
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11	PPA-Definition -tttt	Installed capacity	“Installed Capacity” means the aggregate capacity of 2 MW (AC)	“Installed Capacity” means the aggregate capacity of 2 MWp ...																																										
12	PPA –Clause-I	Preliminary	In case of delays of Project Development work for reasons not attributed to the SPD, the Railway shall determine the extension of the dates set forth in the Project completion by not more than three (03) months as also mentioned in Schedule N. In lieu of the same, the deemed generation shall be made good by the Railways.	In case of delays of Project Development work for reasons not attributed to the SPD, the Railway shall determine the extension of the dates set forth in the Project completion at their discretion as also mentioned in Schedule N. In lieu of the same, the deemed generation shall be made good by the Railways																																										
13	PPA –Article -6 - 6.1.2 (b)	Obligation of Railways	<p>(a) Purchase one hundred percent (100%) of the Solar Power generated by the System and made available by the Solar Company of the Installed Capacity at the Delivery Point during each relevant month of the Term.</p> <p>(l) Ensure that no barriers are erected or placed on or about the Project by any Government Agency/ Instrumentality or any persons claiming through or under it, except for reasons of Safety Requirements, Emergency, national security, or law and order;</p>	<p>(a) Purchase one hundred percent (100%) of the Solar Power Contracted by the System and made available by the Solar Company of the Installed Capacity at the Delivery Point during each relevant month of the Term.</p> <p>(l) Ensure that no barriers are erected or placed on or about the Project by any Government Agency/ Instrumentality or any persons claiming through or under it, except for reasons of Safety Requirements, Emergency, national security, law and order or train running and operations.</p>																																										

14	PPA-Clause no.9.1	Performance Guarantee/Security	The SPD shall, for the performance of its obligations hereunder during the development, construction and commissioning period, provide to Railways within 30 days of issue of LOA or before signing of PPA whichever is earlier , an irrevocable and unconditional guarantee from a Bank for a sum of Rs. 20 Lakh per MW which has already been decided in the form set forth in Schedule-G (the "Performance Security"),	The SPD shall, for the performance of its obligations hereunder during the development, construction and commissioning period, provide to Railway within 15 (fifteen) days from the date of this Agreement , an irrevocable and unconditional guarantee from a Bank for a sum of Rs. 20 Lakh per MW which has already been decided in the form set forth in Schedule-G (the "Performance Security"),
15	PPA-Clause no.9.3	Release of Performance Security	The Performance Security shall remain in force and effect for an initial period of 21 (twenty one) months from the Effective Date and the validity thereof shall be renewed at least 30 (thirty) days prior to its expiry. Railways shall release the Performance Security forthwith upon expiry of the aforesaid 3 (three) months from (post) the COD; provided however, that the Performance Security shall not be released if the SPD is in breach of this Agreement.	The Performance Security shall remain in force and effect for an initial period of 12 (twelve) months from the Effective Date and the validity thereof shall be renewed at least 30 (thirty) days prior to its expiry. Railways shall release the Performance Security forthwith upon expiry of the aforesaid 3 (three) months from (post) the COD; provided however, that the Performance Security shall not be released if the SPD is in breach of this Agreement.
16	PPA- Article 10- Clause no.10.8 (a)	System Disruptions due to site access	System Disruptions due to site access	System Disruptions due to site access (after commissioning)
17	PPA- Article 11- Clause no.11.1	Existing utilities and roads	The SPD shall, subject to Applicable Laws and with assistance of Railways, undertake shifting of any utility including electric lines, water pipes and telephone cables , to an appropriate location....	The SPD shall, subject to Applicable Laws and with assistance of Railways, undertake shifting of any utility including electric lines, water pipes telephone cables, etc , to an appropriate location....
18	PPA –Clause no.12.4.3	Extensions of Time	In case of extension due to reasons specified in Article 12.4.1 and if such Force Majeure Event continues even after a maximum period of three (3) Months , any of the Parties may choose to terminate the Agreement as per the provisions of Article	In case of extension due to reasons specified in Article 12.4.1 and if such Force Majeure Event continues even after a maximum period of extension , any of the Parties may choose to terminate the Agreement as per the provisions of Article 28.

			28.	
19	PPA-Definition -bb	Definition	“PCEE” means Chief Electrical Engineer/PPCEE of NR, who is Head of Electrical Engineering department of NR.	“PCEE” means Principal Chief Electrical Engineer/PCEE of NR, who is Head of Electrical Engineering department of NR.
20	PPA-Definition - kkkkkkk	Scheduled COD	“ Scheduled COD ” or “Scheduled Commercial Operation Date” means in respect of the Facility, the date falling on the last day of the expiry of 13 months from the Effective Date, ...	“ Scheduled COD ” or “Scheduled Commercial Operation Date” means in respect of the Facility, the date falling on the last day of the expiry of 6 months from the Effective Date, ...
21	PPA-Definition - qqqqqqqq	Unit	“ Unit ” means Facility aggregate to the installed capacity of 50 MWp.	“ Unit ” means Facility aggregate to the installed capacity of 2 MWp.
22	PPA- Definition- zzzzzz	PGCIL substation	“ PGCIL Substation ” means the 400/220kV station at Raipur owned and operated by PGCIL	“ PGCIL Substation ” means the substation owned and operated by PGCIL.
23	PPA- Definition- beow vvvvvvvv)	Definition	-	Wwwwwwww) “ Railway Electrical engineer” means CEDE/NR or his authorized representatives.
24	PPA-Article 3- clause 3.1	The Power Purchase Agreement (PPA)	Subject to and in accordance with the provisions of this Agreement.....The date on which the PPA is executed is said to be “Effective Date” ..	Subject to and in accordance with the provisions of this Agreement... The date on which the LOA is issued is said to be “Effective Date” ..
25	PPA-Article-10- Clause 10.1	Right of Way	The site of the Project shall comprise the real estate described in Schedule B and in respect of which the Right of Way shall be provided and granted by Railways to the SPD in accordance with this Agreement (the “ Project ”).	The site of the Project shall comprise the real estate (land) indicated in APPENDIX IX of RFQ and in respect of which the Right of Way shall be provided and granted by Railways to the SPD in accordance with this Agreement (the “ Project ”).
26	PPA-Article-10- Clause 10.2.4	Access and Right of Way	In consideration of this Agreement and the covenants and warranties on the part of the SPD herein contained, Railways, in accordance with the terms and conditions set forth herein, hereby grants to the SPD, commencing within the timelines mentioned in Schedule N, the leave and the right in respect to the site/s (along with any area,	In consideration of this Agreement and the covenants and warranties on the part of the SPD herein contained, Railways, in accordance with the terms and conditions set forth herein, hereby grants to the SPD, commencing within the timelines mentioned in Schedule N, the leave and the right in respect to the site/s (along with any area, storage space, location

			<p>storage space, location for equipment placement) comprising the Site which is described, delineated and shown in Schedule B hereto (the “Relevant Premises”), on an “as is where is” basis, free of any Encumbrances, to develop, operate and maintain the said Relevant Premises, together with all and singular rights, liberties, privileges, easements and appurtenances whatsoever to the said Premises, or any part thereof belonging to or in any way appurtenant thereto or enjoyed therewith, for the duration of the Agreement Period and, for the purposes permitted under this Agreement, and for no other purpose whatsoever.</p>	<p>for equipment placement) comprising the Site which is shown in APPENDIX IX of RFQ which is hereto (the “ Relevant Premises”) on an “as is where is” basis, free of any Encumbrances, to develop, operate and maintain the said Relevant Premises, together with all and singular rights, liberties, privileges, easements and appurtenances whatsoever to the said Premises, or any part thereof belonging to or in any way appurtenant thereto or enjoyed therewith, for the duration of the Agreement Period and, for the purposes permitted under this Agreement, and for no other purpose whatsoever.</p>
27	PPA-Article-10- Clause 10.3.2	Access of the site	<p>Railways shall make best efforts to procure and grant, within the timeline given in Schedule N, the Right of Way to the SPD in respect of all access as well as the Right of Way to the Relevant Premises included in the Schedule B. In the event of delay for any reason other than Force Majeure or breach of this Agreement by the SPD, it shall pay to the SPD damages in a sum calculated at the rate of Rs.[1,000 (Rupees one thousand)] per day for, commencing from the 31st (thirty first) day of the Effective Date and until such Right of Way is procured with a limit of upto 20 percent of the bid security.</p> <p>In parallel by the Railway Electrical Engineer hereunder shall be deemed to be Project Milestones, for the purposes of levy and recovery of Damages under and in accordance with the provisions in Article 20. The timeline for construction work shall be designed considering the adherence of the overall project timeline as mentioned in the Schedule N.</p>	<p>Railways shall make best efforts to procure and grant, within the timeline given in Schedule N, the Right of Way to the SPD in respect of all access as well as the Right of Way to the Relevant Premises (land) which is shown in APPENDIX IX of RFQ. In the event of delay for any reason other than Force Majeure or breach of this Agreement by the SPD, it shall pay to the SPD damages in a sum calculated at the rate of Rs.[1,000 (Rupees one thousand)] per day for, commencing from the 31st (thirty first) day of the Effective Date and until such Right of Way is procured with a limit of upto 20 percent of the bid security.</p> <p>In parallel by the Railway Electrical Engineer hereunder shall be deemed to be Project Milestones, for the purposes of levy and recovery of Damages under and in accordance with the provisions in PPA. The timeline for construction work shall be designed considering the adherence of the overall project timeline as mentioned in the Schedule N.</p>

28	PPA-Article-10- Clause 10.10	Installation ,operation and ownership of the facility	The SPD shall bear all risk of loss with respect to the Facility Installations and shall have full responsibility for its operation and maintenance in compliance with all the Laws and Approvals. The SPD shall coordinate in advance all such repair and maintenance work with the manager of the relevant buildings comprising the site or his/her designee so as not to restrict parking access or interfere with scheduled activities on the relevant building comprising the Site . Upon such request for repair and maintenance work, the Railways shall respond to such request within five (5) Business Days.	The SPD shall bear all risk of loss with respect to the Facility Installations and shall have full responsibility for its operation and maintenance in compliance with all the Laws and Approvals. The SPD shall coordinate in advance all such repair and maintenance work with the manager of the relevant site or his/her designee so as not to restrict parking access or interfere with scheduled activities on the relevant site . Upon such request for repair and maintenance work, the Railways shall respond to such request within five (5) Business Days.
29	PPA-Article-12- Clause 12.5.2	Liquidated Damages for delay in commencement of supply of power to Railways	The maximum time period allowed for commissioning of the full Project Capacity with encashment of Performance Bank Guarantee and reduction in pre-fixed tariff shall be limited to twenty four (24) months from the date of signing of this Agreement . In case, the commissioning of the Power Project is delayed beyond twenty four (24) months from the date of signing of this Agreement , it shall be considered as an SPD Event of Default and provisions of Article 28 shall apply.	The maximum time period allowed for commissioning of the full Project Capacity with encashment of Performance Bank Guarantee and reduction in pre-fixed tariff shall be limited to six (06) months from the date of issuance of LOA or extended period (if any) given by NR . In case, the commissioning of the Power Project is delayed beyond six (06) months from the date of issuance of LOA , it shall be considered as an SPD Event of Default and provisions of Article 28 shall apply.
30	PPA-Article-14- Clause 14.8.5	Synchronization , Commissioning and Commercial Operation	The SPD shall commission the Project as detailed in "Schedule O: Commissioning Procedure" within thirteen (13 as per RFQ/RFP) Months of the date of signing of PPA .	The SPD shall commission the Project as detailed in "Schedule O: Commissioning Procedure" within six (06 as per RFQ/RFP) Months of the date of issuance of LOA .

31	PPA-Article 17- Clause no.17.1.1	Safety Requirements	Project Management shall include adherence to all requisite safety practices.	Project Management shall include adherence to all requisite safety practices including prevention of unsafe conditions causing electric shock, electrocution, injury or death to any person or animal. This shall be the responsibility of SPD.
32	PPA- Article 21- Financial Close	Financial Close	The Project shall achieve Financial Closure within 07 (Seven) months from the Effective Date of the Power Purchase Agreement (PPA) (for e.g. if Effective date of the PPA is 07.03.2018, then scheduled Financial Closure date shall be 07.10.2018) . At this stage, the SPDs shall report tie-up of Financing Arrangements for the Projects. In this regard, the SPD shall submit a certificate from all financing agencies regarding the tie-up of funds indicated for the Project	The Project shall achieve Financial Closure within 02 (two) months from the Effective Date of the issuance of LOA (for e.g. if Effective date of issuance of LOA is 07.01.2019, then scheduled Financial Closure date shall be 07.03.2019) . At this stage, the SPDs shall report tie-up of Financing Arrangements for the Projects. In this regard, the SPD shall submit a certificate from all financing agencies regarding the tie-up of funds indicated for the Project
33	PPA-Article 23- clause no.23.7- (d)	Payments in Case of Dispute	Upon receipt of the Bill Disagreement Notice by the Procurer under this Article 23.7(d), authorized representative(s) or a director of the board of directors/member of the board of the Procurer and the SPD shall meet and make best endeavours to amicably resolve such dispute within 15 (fifteen) Days of receipt of the Bill Disagreement Notice.	Upon receipt of the Bill Disagreement Notice by the Procurer under this Article 23.7(d), CEDE/NR or his authorized representative(s) of the Procurer and the SPD shall meet and make best endeavours to amicably resolve such dispute within 15 (fifteen) Days of receipt of the Bill Disagreement Notice.
34	PPA-Article 28- clause no.28.3- last para	Termination for Railways Default	Without prejudice to, the SPD shall by a notice inform Railways of its intention to issue the Termination Notice and grant 15 (fifteen) days to Railways to make a representation, and may after the expiry of such 15 (fifteen) days , whether or not it is in receipt of such representation, issue the Termination Notice.	Without prejudice to, the SPD shall by a notice inform Railways of its intention to issue the Termination Notice and grant 45 (forty five) days to Railways to make a representation, and may after the expiry of such 45 (forty five) days , whether or not it is in receipt of such representation, issue the Termination Notice.

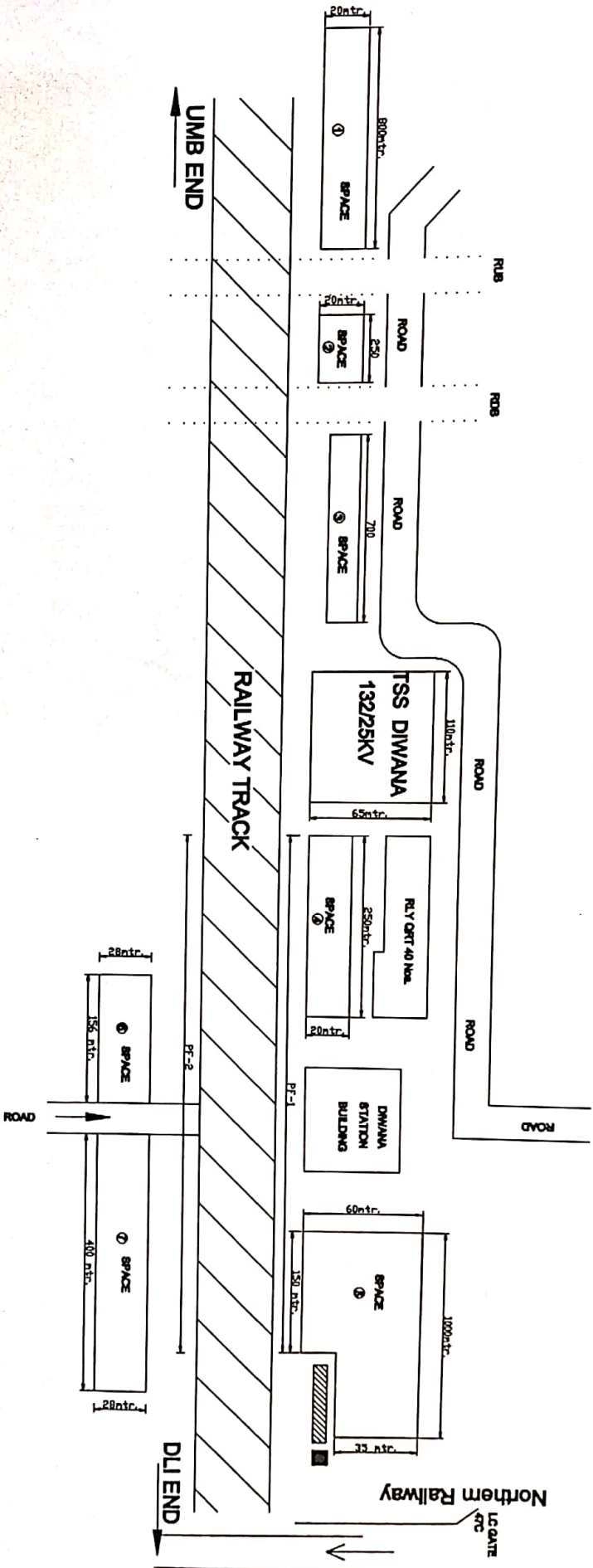
35	PPA-Article 35- clause no.35.2- (a)	Non-Political Event	act of God, epidemic, extremely adverse weather conditions, lightning, earthquake, landslide, cyclone, flood, volcanic eruption, chemical or radioactive contamination or ionising radiation, fire or explosion (to the extent of contamination or radiation or fire or explosion originating from a source external to the Site);			act of God, epidemic, extremely adverse weather conditions, lightning, earthquake, landslide, cyclone, flood, attack by animals , volcanic eruption, chemical or radioactive contamination or ionising radiation, fire or explosion (to the extent of contamination or radiation or fire or explosion originating from a source external to the Site);																																		
36	PPA- Schedule C – added Clause no.8- (f) below clause no 8-(e).	Performance Monitoring	-			New Clause added (f) – The SPD shall ensure proper / desired quality of power matching with the power in 132 kV 3-phase transmission line with regard to Voltage, frequency, Power Factor, harmonics etc.																																		
37	Schedule N	Timelines	<table border="1"> <thead> <tr> <th>S.no</th> <th>Particulars</th> <th>Timelines/Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Signing / execution of PPA</td> <td>ED + 15 days</td> </tr> <tr> <td>5</td> <td>Financial Closure – SPD to execute financial closure</td> <td>ED + 45 days</td> </tr> <tr> <td>6</td> <td>SPD to procure all the approvals... full force and effect</td> <td>ED + 45 days</td> </tr> <tr> <td>7</td> <td>SPD to execute the FinancingESCROW agreement</td> <td>ED + 60 days</td> </tr> <tr> <td>8</td> <td>SPD to</td> <td>ED + 60 days</td> </tr> </tbody> </table>	S.no	Particulars	Timelines/Date	1	Signing / execution of PPA	ED + 15 days	5	Financial Closure – SPD to execute financial closure	ED + 45 days	6	SPD to procure all the approvals... full force and effect	ED + 45 days	7	SPD to execute the FinancingESCROW agreement	ED + 60 days	8	SPD to	ED + 60 days	<table border="1"> <thead> <tr> <th>S.no</th> <th>Particulars</th> <th>Timelines/Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Signing / execution of PPA</td> <td>ED + 30 days</td> </tr> <tr> <td>5</td> <td>Financial Closure – SPD to execute financial closure</td> <td>ED + 60 days</td> </tr> <tr> <td>6</td> <td>SPD to procure all the approvals... full force and effect</td> <td>ED + 60 days</td> </tr> <tr> <td>7</td> <td>SPD to execute the FinancingESCROW agreement</td> <td>ED + 75 days</td> </tr> <tr> <td>8</td> <td>SPD to</td> <td>ED + 75</td> </tr> </tbody> </table>	S.no	Particulars	Timelines/Date	1	Signing / execution of PPA	ED + 30 days	5	Financial Closure – SPD to execute financial closure	ED + 60 days	6	SPD to procure all the approvals... full force and effect	ED + 60 days	7	SPD to execute the FinancingESCROW agreement	ED + 75 days	8	SPD to	ED + 75
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				deliver Railways 3 (three) true copies of the Financial Package...			deliver Railways 3 (three) true copies of the Financial Package...	days	
			9	Completion of Installation, Construction and Commissioning**	ED + 150 days		9	Completion of Installation, Construction and Commissioning**	ED + 180 days
			12	SPD to identify & finalize all required steps as per the concerned CTU/IEGC	ED + 150 days		12	SPD to identify & finalize all required steps as per the concerned STU/ CTU/IEGC, as applicable	ED + 180 days
38	Schedule N	Notes	Railways on basis of realistic assessment of the situation can extend this time by the period of three (3) months			Northern Railway on basis of realistic assessment of the situation can extend the time period at their discretion.			

Note: Kindly read all the relevant clauses in the bid document (RFQ, RFP & PPA) in accordance with this Amendment.

APPENDIX IX
INDICATIVE LAND MAP

UNUSED SPACE ALONG THE RAILWAY TRACK BOTH SIDE OF TSS DIWANA



UNUSED SPACE :-

- 1) 800X20 = 16000 Sq.mtr (Approx.)
 - 2) 250X20 = 5000 Sq.mtr (Approx.)
 - 3) 700X15 = 10500 Sq.mtr (Approx.)
 - 4) 250X20 = 5000 Sq.mtr (Approx.)
 - 5) (1000X35+150X25) = 38750 Sq.mtr (Approx.)
 - 6) 150X28 = 4388 Sq.mtr
 - 7) 400X28 = 11206 Sq.mtr
- TOTAL : 90816 Sq.mtr (Approx.)**

Note :- For Installation of solar plants, a 5 meter wide width of land from the toe of the existing bank may be considered while utilizing the land.

REMCCL
Railway Energy Management Co. Ltd.
Ritase Ltd, PLOT No.-1, Sector-29 Central Wing

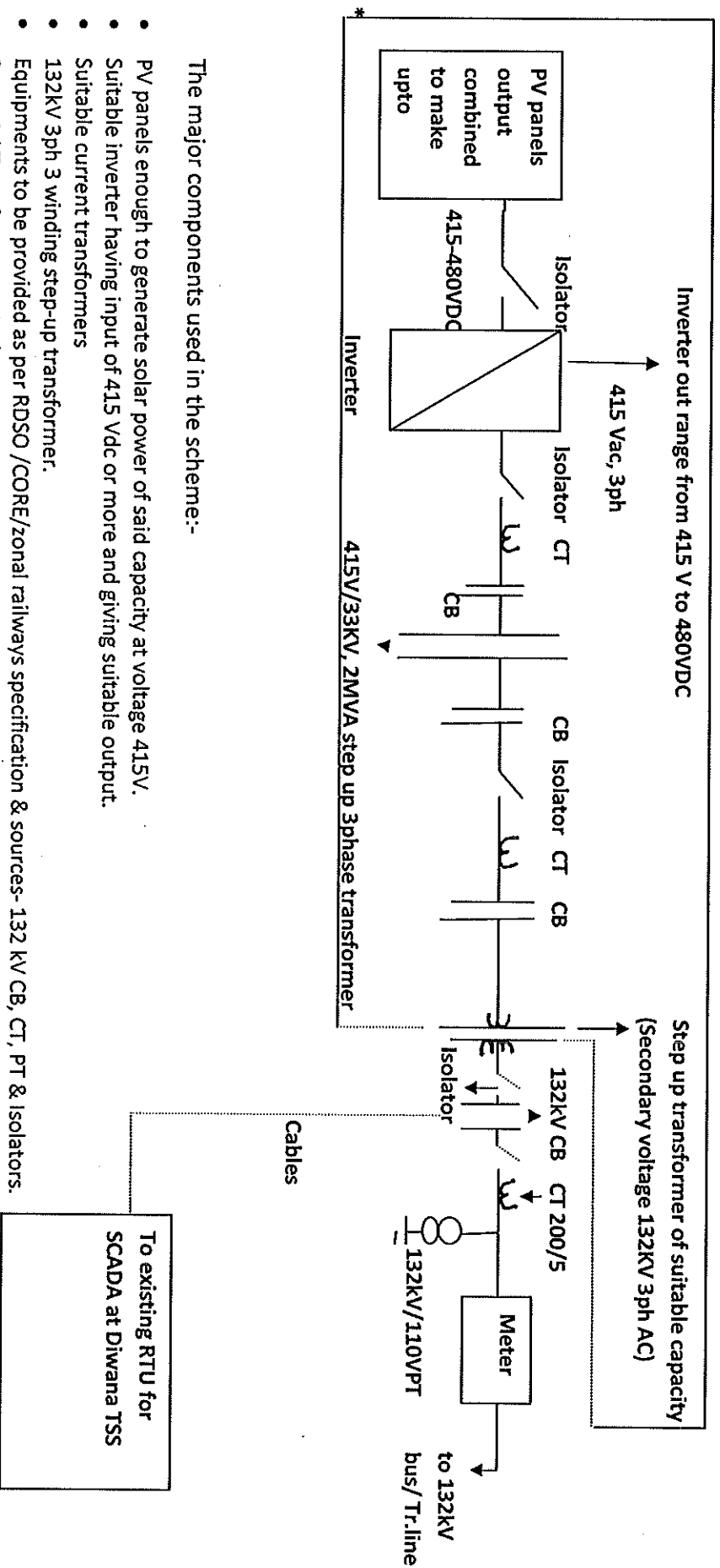
Railway Energy Management Co. Ltd.

Dwg No.: REMCCL/21MW(AC)/SOLAR/01

APPENDIX X

INDICATIVE SCHEMATIC DIAGRAM FOR POWER EVACUATION

SCHEME FOR FEEDING OF SOLAR POWER INTO 132KV 3 PHASE AC RAILWAY TRANSMISSION LINE



The major components used in the scheme:-

- PV panels enough to generate solar power of said capacity at voltage 415V.
- Suitable inverter having input of 415 Vdc or more and giving suitable output.
- Suitable current transformers
- 132KV 3ph 3 winding step-up transformer.
- Equipments to be provided as per RDSO /CORE/zonal railway's specification & sources- 132 kV CB, CT, PT & Isolators.
- Potential Transformer 132KV/110V.
- Suitable Energy meters at 132KV side.

* The SPD will be free to Design the system within the above block upto the incoming of 132KV.