

Amendment No.1 to Technical Specification

SI No.	Specification reference				Existing	Read As
	Sec/Part	Sub Sec	Page No.	Clause No.		
1	VI/A	Volume IV	249/1178	1.00.00 (b)	Engine - Medium Speed Type for 50 Hz Electric Power Generation Applications	Engine – Suitable for 50 Hz Electric Power Generation Applications
2	VI/A	Volume II	171/1178	1.01.00 (vi)	Complete structural and Architectural works, providing construction offices, field laboratory, construction equipment, construction power and construction water.	Complete structural work related to all equipment erection as per scope of this package in Part A Volume III , providing construction offices, field laboratory, construction equipment, construction power and construction water
3	VI/A	Volume IV	271/1178	Annexure IA	<p>NOISE POLLUTION CONDITIONS: STANDARD EC CONDITIONS FOR THERMAL POWER SECTOR</p> <p>D. Noise pollution and its control measures:</p> <p>1. The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.</p> <p>2. Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ ear muffs, etc.</p> <p>3. Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.</p> <p>PROJECT SPECIFIC CONDITION:</p> <p>Noise levels emanating from genset shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) 1m from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record</p>	<p>NOISE POLLUTION CONDITIONS: STANDARD EC CONDITIONS FOR THERMAL POWER SECTOR</p> <p>A.) As per Standard EC Condition for Thermal Power Sector, 19th Nov 2018</p> <p>1) The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.</p> <p>2) Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.</p> <p>3) Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.</p> <p>PROJECT SPECIFIC CONDITION:</p> <p>B.) As per Env. (Protection) Third Amendment Rules, 2016, 7th March 2016</p> <p>Noise Limits:-</p>

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					and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	(a) Noise from gensets shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end. (b) The acoustic enclosure shall be designed for minimum 25 dB(A) insertion loss or for complying with the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure or acoustic treatment. Under such circumstances, the performance may be checked for noise reduction upto actual ambient noise level, preferably, in the night time between 10.00 PM-6.00 AM). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure or room, and then averaged.
4	VI/A	Volume VI	293/1178	8.03.01 B (xxiv)	Civil and Structural works drawings and documents for all structures, facilities, architectural works, foundations underground and overground works and super-structural works as included in the scope of the bidder civil calculation sheets including structural analysis and design along with output results.	Civil and Structural works drawings and documents for all structures, facilities, architectural works, foundations underground and overground works and super-structural works as included in the scope of the bidder civil calculation sheets including structural analysis and design along with output results. However, for civil related documents/drawings, it will be limited to interface inputs as applicable and defined elsewhere in specification.
5	VI/A	Volume VI	293/1178	8.03.01 B (xxv)	Underground facilities, levelling, sanitary, landscaping drawings.	Deleted
6	VI/A	Volume VI	293/1178	8.03.01 B (xxvi)	Geotechnical investigation and site survey reports (if and as applicable).	Deleted

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7	VI/B	Volume I M2	442/1178	1.02.12	Cable trenches/slits, if unavoidable, shall be provided with adequate cushioning of sand and the same shall be covered with PCC.	Cable trench/slit requirement shall be provided by bidder as an input drawing for civil works.
8	VI/B	Volume I M2	443/1178	1.02.16	The Transformer fencing shall be at 1.0 M (minimum) distance from the pit wall. The Height of fencing shall be 2.5 M (minimum) and fencing shall have personal entry gate and removable type fencing/gate for transformer withdrawal.	<p>The transformer yard layout shall be prepared by bidder as an input for civil works. The following layout requirements to be fulfilled while preparation of transformer yard layout.</p> <p>1.The Transformer fencing shall be at 1.0 M (minimum) distance from the pit wall. The Height of fencing shall be 2.5 M (minimum) and fencing shall have personal entry gate and removable type fencing/gate for transformer withdrawal.</p> <p>2. For all outdoor transformers a pit shall be provided all around at a distance of 1.0 m (minimum) from transformer outer edge. A sump pit shall be provided for each pit.</p>
9	VI/B	Volume I M2	443/1178	1.02.17	For all outdoor transformers a pit shall be provided all around at a distance of 1.0 m (minimum) from transformer outer edge. A sump pit shall be provided for each pit.	DELETED
1	VI/A	Volume IV	251/1178	3.02.00 (e)	Compressed air system and Start-up air system	Compressed air system and Start-up air system (Duty factor - 0.6)
1	VI/B	Volume II E1	517/1178	SLD	Single line diagram	Updated Single line diagram
1	VI/B	Volume II E1	513/1178	2.05.00	Cables and Bus Ducts: The minimum rating of cable/ bus ducts shall meet the following criteria: All the cables and bus ducts feeding switchboards from transformers shall be sized based on	Cables and Bus Ducts: The minimum rating of cable/ bus ducts shall meet the following criteria: All the cables and bus ducts feeding switchboards from

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					transformer rating and considering the maximum negative voltage variations envisaged in the specifications. All the cables and bus ducts feeding transformers shall be sized based on current ratings of transformer at the minimum voltage tap of the transformer. All other cables/bus-ducts shall be sized based on the load demand under most onerous conditions. Cables shall be selected to so as to limit maximum voltage drop at equipment terminals during normal operation and starting conditions well within permissible values. Cables shall be derated for the site ambient and ground temperatures, grouping and soil resistivity and cable laying configuration. All HT cables shall be of unearthed grade. The bidder shall furnish detailed cable selection/sizing criteria for Employer's approval.	transformers shall be sized based on transformer rating and considering the maximum negative voltage variations envisaged in the specifications. All the cables and bus ducts feeding transformers shall be sized based on current ratings of transformer at the minimum voltage tap of the transformer. All other cables/bus-ducts shall be sized based on the load demand under most onerous conditions. Cables shall be selected to so as to limit maximum voltage drop at equipment terminals during normal operation and starting conditions well within permissible values. Cables shall be derated for the site ambient and ground temperatures, grouping and soil resistivity and cable laying configuration. All HT cables shall be of unearthed grade. The bidder shall furnish detailed cable selection/sizing criteria for Employer's approval. However, the 33kV voltage cable shall be of earthed grade type.
1	VI/B	Volume II E13	663/1178	4.00.00 5.00.00 6.00.00 7.00.00 8.00.00 9.00.00	Dry type Transformer specifications	Deleted

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1	VI/B	Volume II E13	645/1178	1.01.00 (vi)	<table><tr><td>S no</td><td>Transformer</td><td>GT</td><td>Auxiliary Transformers (including LT Outdoor)</td></tr><tr><td>(vi)</td><td>Cooling</td><td>ONAN/ ONAF (80/100%)</td><td>ONAN</td></tr></table>	S no	Transformer	GT	Auxiliary Transformers (including LT Outdoor)	(vi)	Cooling	ONAN/ ONAF (80/100%)	ONAN	<table><tr><td>Sno</td><td>Transformer</td><td>GT</td><td>Auxiliary Transformers (including LT Outdoor)</td></tr><tr><td>(vi)</td><td>Cooling</td><td>ONAN/ ONAF (80/100%) or ONAN as applicable</td><td>ONAN</td></tr></table>	Sno	Transformer	GT	Auxiliary Transformers (including LT Outdoor)	(vi)	Cooling	ONAN/ ONAF (80/100%) or ONAN as applicable	ONAN
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1	VI/B	Volume II E13	648/1178	1.03.01 (b i)	<p>GT:- Transformers shall be provided with detachable type tank mounted radiator banks with 100% cooling capacity. Cooling fans shall not be directly mounted on radiator bank which may cause undue vibration, also fan shall be protected by galvanized wire guard. Each radiator bank shall have lifting lug, air release plug, top & bottom filling/shut-off valves, filter valves, drain valve/plug etc. The number and capacity of cooling fans with radiator bank shall be such that outage of any fan does not reduce the continuous rating. Automatic operation/control of fans shall be provided (with temp. change) from contacts of winding temp. Indicator.</p>	<p>GT :- (a) in case of ONAN/ONAF Scheme: Transformers shall be provided with detachable type tank mounted radiator banks with 100% cooling capacity. Cooling fans shall not be directly mounted on radiator bank which may cause undue vibration, also fan shall be protected by galvanized wire guard. Each radiator bank shall have lifting lug, air release plug, top & bottom filling/shut-off valves, filter valves, drain valve/plug etc. The number and capacity of cooling fans with radiator bank shall be such that outage of any fan does not reduce the continuous rating. Automatic operation/control of fans shall be provided (with temp. change) from contacts of winding temp. Indicator. (b) in case of ONAN scheme: the radiators shall be detachable type, mounted on the tank. Each radiator shall be provided with a drain plug/valve at the bottom, an air release plug at</p>																

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						the top, shut off valve at each point of connection to the tank
1	VI/B	Volume II E1	517/1178	8.00.00	----	All instruments/ equipment etc. shall be suitable for highly corrosive environment prevalent in the coastal area.
1	VI/B	Volume V RS	766/1178	1.2	Complete design, engineering, manufacture, inspection, supply, transportation, storage, insurance, civil work, erection, testing, commissioning and O&M of the grid Solar PV plants including all auxiliaries. connected rooftop	Complete design, engineering, manufacture, inspection, supply, transportation, storage, insurance, civil work, erection, testing, commissioning of the grid Solar PV plants including all auxiliaries. connected rooftop
1	VI/B	Volume V RS	767/1178	1.6	Bidder to provide Operation and Maintenance (O&M) of the plants for a period of one year from the date of trial run of all the rooftop locations. During trial run (minimum one day), bidder to demonstrate trouble free operation of all the rooftop locations. During O&M period, the bidder shall be responsible for supply of all spare parts as required from time to time for scheduled and preventive maintenance, major overhauling of the plant, replacement of all equipments in the plant including defective PV Modules, Inverters, Transformers etc and maintaining log sheets for operation detail, deployment of staff for continuous operations and qualified engineer for supervision of O&M work, complaint logging & its attending. All PV modules shall be cleaned regularly and water washed at least once in a week	During trial run (minimum one day), bidder to demonstrate trouble free operation of all the rooftop locations.
19	Section-VI / Part-A	Volume-III	6 of 64	11.02.00 h)	Supply of all Chemicals for complete water treatment facilities for Six months (6) months of Operation after PG test including first fill for all the systems as per system requirements & as specified	Supply of all Chemicals for complete water treatment facilities for One (01) year of Operation after PG test including first fill for all the systems as per system requirements / as specified

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2	VI/A	Volume VII	388/1178	36.05.00	<p>Site management during construction phase till handing over of plant Bidder shall ensure that the plant site within the plant boundary is managed in a coordinated and professional way all through the construction phase till handing over of plant, ensuring safe, easy & unhindered working conditions and a healthy & hygienic working environment at site. He shall ensure the following measures at site while executing the project.</p> <p>a) Unhindered motorable road access to all work areas and facilities both during the construction/erection and as they get completed progressively. Required temporary access roads other than the permanent roads shall also be provided. Bidder shall prioritize the construction of approach roads, roads around the main plant block, roads to office & storage areas and the offsite areas from the start of project itself.</p> <p>He shall finalize and submit the complete road layout plan along with priority and completion schedule immediately after the award for review by the Employer. He shall ensure that the roads are promptly repaired and maintained against any damages due to movement of traffic/heavy trailers & cranes etc providing motorable access at all times. Adequate onsite stock of road materials shall be kept and maintained disturbed over the site for repairs especially before the monsoon period.</p> <p>b) Proper drainage of rain water, ground water from excavations, water flows from batching plant / construction sites etc. He shall prioritize the construction of permanent drains from the start of the project itself. Till such time the permanent drainage network is done, he shall construct</p>	<p>Site management during construction phase till handing over of plant Bidder shall ensure that the plant site within the plant boundary is managed in a coordinated and professional way all through the construction phase till handing over of plant, ensuring safe, easy & unhindered working conditions and a healthy & hygienic working environment at site. He shall ensure the following measures at site while executing the project.</p> <p>a) Bidder shall finalize and submit the complete road layout plan along with priority and completion schedule immediately after the award for review by the Employer. He shall ensure that the roads are promptly repaired and maintained against any damages due to movement of traffic/heavy trailers & cranes etc providing motorable access at all times.</p> <p>b) The plant site is fully secured against unauthorized access.</p> <p>c) Proper housekeeping by systematic and proper disposal of wastes (from dismantling of pile tops, concrete works etc), packing & insulation wastes, steel scrap, cable wastes etc generated during construction / erection works.</p> <p>Suitable disposal sites for each of above shall be identified in the layout and at site in the beginning of the project itself. It shall be ensured that all agencies engaged by the bidder follow the discipline to dispose off of earth spoils and wastes at the designated places. Preferably once in a week suitable time slot will be identified for housekeeping by all agencies and suitable instructions shall be issued in this regard.</p> <p>Bidder may engage a separate agency or identify a gang for collection of wastes and disposal to designated places. Suitable arrangement / tie-up will also be made for periodic disposal of wastes/ scrap from the designated places.</p>
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					<p>adequate temporary drains to ensure that there is no accumulation /stagnation of water in the plant site. Bidder may consider providing pre-cast RCC drains for temporary/ permanent drain construction for faster construction of drains. The drain construction shall be matched with progress of road construction for preventing damage to roads. Bidder shall provide and maintain adequate number of drainage pumps (both electrical and diesel operated) of suitable capacity for pumping out accumulated water especially during the monsoon periods. All drain diversions required shall be undertaken at the start of the project itself.</p> <p>c) The plant site is fully secured against unauthorized access.</p> <p>d) Proper housekeeping by systematic and proper disposal of earth from excavations(separately for usable & surplus earth), muck (from pile bores or otherwise), wastes (from dismantling of pile tops, concrete works etc), packing & insulation wastes, steel scrap, cable wastes etc generated during construction / erection works. Suitable disposal sites for each of above shall be identified in the layout and at site in the beginning of the project itself. It shall be ensured that all agencies engaged by the bidder follow the discipline to dispose off of earth spoils and wastes at the designated places. Preferably once in a week suitable time slot will be identified for housekeeping by all agencies and suitable instructions shall be issued in this regard. Bidder may engage a separate agency or identify a gang for collection of wastes and disposal to designated places. Suitable arrangement / tie-up will also be made for</p>	<p>.....</p>
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					periodic disposal of wastes/ scrap from the designated places.	
2	VI/A	Volume VII	388/1178	36.05.00 (h)	<p>First aid facilities and amenities like rest rooms, suitable pre engineered toilets (separate for men and women), drinking water fountains/tanks, canteen, crèche for women workers shall be planned and established at the beginning of the project itself. These facilities shall be distributed over the plant area to enable easy access by the construction workers and staff and shall be marked on the plant layout.</p> <p>Suitable treatment for toilet discharge, like bio digesters etc shall be planned and conventional septic tanks / soak pits etc shall be avoided.</p>	First aid facilities and amenities like rest rooms, suitable pre engineered toilets (separate for men and women), drinking water fountains/tanks, canteen, crèche for women workers shall be planned and established at the beginning of the project itself. These facilities shall be distributed over the plant area to enable easy access by the construction workers and staff and shall be marked on the plant layout
2	VI/A	Volume-II E1	514/1178	2.09.00	PLC based control system wherever envisaged shall be provided with 100% redundancy i.e. Hot standby.	PLC based control system shall be provided.
23.	VI/B	Volume II E2	522/1178	5.04.01	The excitation system shall have two (2x100%) AVR channels including complete independent power supplies and controls. Each channel shall be equipped for 'Auto Operation' with the facility for selecting either channel in 'Auto' or 'Manual' mode.	The excitation system shall have AVR channels. The channel shall be equipped for 'Auto Operation' with the facility for selecting either channel in 'Auto' or 'Manual' mode.
24.	VI/A	Volume VI	289/1178	5.06.00	Two (2) English language copies of all national and international codes and/or standards used in the design of the plant and equipment shall be provided by the	Deleted

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					Contractor to the Employer within two calendar months from the date of the Notification of Award.	
25.	VI/B	Volume-I M4	12 of 35	7.00.00 iv)	The standby hydrant and spray system pumps shall be of diesel engine driven.	DELETED
26.	VI/A	Volume- III	238/1178	2.00.00 Measuring instruments (Mandatory spares – C&I)	2.(I) CEMS (SOx, NOx, CO, CO2, NMHC): - (a).... (b)....	2.(I) CEMS (SOx, NOx, CO, CO2, NMHC): - (a).... (b)....
27.	VI/B	Volume IIIC	706/1178	4.00.00 (i)	CEMS comprising of analysers and associated items for measurement of SOx, NOx, CO, NMHC (Non-Methane Hydrocarbon) (as C), and O2 measurement stack emission monitoring.	CEMS comprising of analysers and associated items for measurement of SOx, NOx, CO, NMHC (Non-Methane Hydrocarbon) (as C) , and O2 measurement stack emission monitoring.
28.	VI/A	Volume- III	186/1178	3.03.00 (iii)	Each stack shall be provided with continuous online NOx, SO2, CO & NMHC (Non-Methane hydrocarbons) analyser NOx, SO2, NMHC and CO values instrumentation.	Each stack shall be provided with continuous online NOx, SO2 & CO & NMHC (Non-Methane hydrocarbons) analyser NOx, SO2, NMHC and CO values instrumentation.
29.	VI/A	Volume- IV	256/1178	6.02.04	Online NOx, SO2, CO and NMHC monitoring of exhaust gas at each stack outlet shall be provided.	Online NOx, SO2 and CO and NMHC monitoring of exhaust gas at each stack outlet shall be provided.
30.	VI/A	Volume III	186/1178	6.00.00	Thermal Insulation All necessary Insulation including cladding, lagging, reinforcement, wire mesh, cleats, supports etc. for Engines (if applicable), piping, valves ducting, stacks etc. conforming to the requirements as brought out in the equipment specifications.	Thermal Insulation All necessary Insulation including cladding, lagging, reinforcement, wire mesh, cleats, supports etc. for Engines (if applicable), piping, valves ducting, stacks etc. conforming to the requirements as brought out in the equipment specifications. If thermal insulation for engine is applicable, it shall be as per engine manufacturer standard practice.

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31.	VI/A	Volume IV	249/1178	3.01.01 (a)	Further, Bidder may calculate Methane number / Heating value for calculating the guarantee performance.	Further, Bidder may calculate Methane number and measure Heating value in presence of NVVN's representative for calculating the guarantee performance.
32.	VI/A	Volume VII	398/1178	44.15.00	Safety Organisation The contractor employing more than 250 workmen whether temporary, casual, probationary, regular or permanent shall employ at least one full time safety officer exclusively to supervise safety aspects of EIC with a copy to the Project Safety Officer before he starts work or immediately after any change of the incumbent is made during currency of the Contract.	Safety Organisation 44.15.01 The contractor shall employ full time safety officer(s) as per requirement stipulated in NTPC Safety Rules, exclusively to supervise safety aspects of the equipments and workmen, who will coordinate with the NTPC Safety Officer. Further requirement of safety officers, if any, shall be guided by Rule 209 of The Building and Other Construction Worker (Regulation of Employment and Conditions of Service) Central Rule 1998. In case the work is being carried out through subcontractor, the employees / workmen of the sub-contractor shall also be considered as the contractor's employees/workmen for the above purpose. 44.15.02 The name and address of such Safety Officer of the Contractor will be promptly informed in writing to the EIC with a copy to the Project Safety Officer before he starts work or immediately after any change of the incumbent is made during currency of the Contract.
33.	VI/B	Volume I, M1	426/1178	1.02.06 (iv a)	Insulation shall be 75 mm thick Un-bonded rock wool mattress as per IS 3690 type-2 at an application density of 64 kg/m ³ . Cladding shall be aluminium sheet of 20 SWG.	Insulation shall Light Resin Bonded (LRB) Mattress as per IS8183 at an application density of 120-150 kg/m ³ . Insulation thickness calculation shall be based on ASTM C-680. Cladding shall be aluminium sheet of 20 SWG.
34.	VI/A	Volume-III	190/1178	12.02.00 a)	Fire Water Pumping System: Complete fire water pumping system consisting of two (2) nos. fire water storage tank, fire water pumps & drives (common for hydrant system and spray system), batteries and battery chargers for the diesel engines drives, automatic pressurization system consisting of electric motor driven jockey pumps, required instruments, controls, and panels as	Fire Water Pumping System: Complete fire water pumping system consisting of two (2) nos. fire water storage tank, one (1) no. intermediate fire water tank, fire water pumps & drives (common for hydrant system and spray system), fire water transfer pumps & drives, batteries and battery chargers for the diesel engines drives, automatic

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					per the detailed specifications in Part-B of technical specification.	pressurization system consisting of electric motor driven jockey pumps, required instruments, controls, and panels as per the detailed specifications in Part-B of technical specification.
35.	VI/A	Volume-III	222/1178	3.00.00, 1.0	Above quantity/items are required for each type and rating of pumps being supplied under the contract	Note: Above quantity/items are required for each type and rating of pumps being supplied under the contract. Further, main pumps mentioned above include both "common hydrant & spray pumps" as well as "fire water transfer pumps"
36.	VI/B	Volume-I M4	454/1178	1.03.00	Fire Water Source Water for the Fire Protection system shall be drawn from fire water storage tanks to be provided by the Bidder. Water for filling up the fire water storage tanks shall be drawn from the following two sources: a) From service water tank b) From rain water harvesting tank as second source. Fill in line from above two sources shall be in the scope of vendor. Bidder shall interconnect the same to each of the fire water tank through individual motorized isolation valve.	Fire Water Source Water for the Fire Protection system shall be drawn from fire water storage tanks to be provided by the Bidder. Water for filling up the fire water storage tanks shall be drawn through fire water transfer pumps & inter intermediate fire water tank. There shall be two sources of water to fill intermediate fire water tank: a) service water tanks as primary source. b) rain water harvesting tank as second source. Intermediate fire water tank shall be filled with the help of service water pumps and harvested rain water pumps. Fill in line from above two sources shall be in the scope of vendor. Bidder shall interconnect the same to intermediate fire water tank through individual motorized isolation valve.
37.	VI/A	Volume-III	190/1178	12.02.00 a)	Fire Water Pumping System: Complete fire water pumping system consisting of two (2) nos. fire water storage tank, fire water pumps & drives (common for hydrant system and spray system), batteries and battery chargers for the diesel engines drives, automatic pressurization system consisting of electric motor driven jockey pumps, required instruments, controls, and panels as per the detailed specifications in Part-B of technical specification.	Fire Water Pumping System: Complete fire water pumping system consisting of two (2) nos. fire water storage tank, one (1) no. intermediate fire water tank, fire water pumps & drives (common for hydrant system and spray system), fire water transfer pumps & drives, batteries and battery chargers for the diesel engines drives, automatic pressurization system consisting of electric motor driven jockey pumps, required instruments, controls, and panels as per the detailed specifications in Part-B of technical specification.
38.	VI/B	Volume-I	466/1178	7.00.00	-----	Following clause has been added:

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		M4				(xiii) Intermediate Fire Water Tanks: One (1) number vertical cylindrical column supported fixed cone roof type MS fire water storage tank shall be provided by the bidder. To avoid vacuum creation inside the tank, two (2) nos. vents each of size min. 150 NB shall be provided on the roof of the tanks. Minimum effective capacity of intermediate fire water tank shall be 500 m3.
39.	VI/B	Volume-I M4	469/1178	Annexure-II	Annexure-II (Technical Design Data) has been revised and is attached as Annexure to this amendment.	To meet TAC guidelines
40.	VI/A	Volume III	189/1178	11.02.00 d)	Service water system: Service water tanks (2x100%), Service water pumps (2x100%), all piping/valves/fittings for Service water system.	<p>Service water system: Service water tanks (2x100%), Service water pumps (2x100%), Rainwater Harvesting Pumps (2x100%), all associated piping/valves/fittings for Service water system.</p> <p>Note: - In addition to cater plant service water requirements, service water pumps & rainwater harvesting pumps shall also be used to fill intermittent tank further used to cater plant fire water requirements.</p>