

## **CAPITAL PROGRAM**

## Annexure-D to BBB1776 version3



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## 1. SCOPE.

This serve as additional information to **BBB1776 Version 3.** 

<ul> <li>1. ICASA approval and the supplier must submit the ICASA approval certificate for his radio before TFR will accept any deliveries.</li> <li>2. Setting the parameters.</li> <li>3. Service record rear unit.</li> <li>The supplier can supply software to easy the code generation and updating the REAR unit in the documented clearly in the documentation.</li> <li>The supplier can supply software to easy the code generation and updating the REAR unit in the documentation.</li> <li>The supplier can supply software to easy the code generation and updating the REAR unit in the documentation.</li> <li>The supplier can supply software to easy the code generation and updating the REAR unit in the documentation.</li> <li>The supplier must submit the ICASA approval certificate for his radio code to the service date and time and three fault codes must be stored and refreeved at any time.</li> <li>This information is send via the GPRS.</li> <li>REAR ID 9001 The service date and time and three fault codes workshow with the three fault code at the fau</li></ul>	Function	Information
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<ul> <li>4. REAR GPS &amp; The supplier must implement a display method to determine at any time if the REAR GPS has satellite lock and if the GPRS successfully send data to the server.</li> <li>5. REAR matching status.</li> <li>6. Rear brake valve in formation.</li> <li>6. Rear brake valve in Vacuum mode.</li> <li>7. Disable of CAB</li> <li>7. Disable of CAB</li> </ul>		T=Transducer T= T=Tighten T=
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<ul> <li>4. REAR GPS &amp; GPRS indication.</li> <li>5. REAR matching status.</li> <li>6. Rear brake valve in Vacuum mode.</li> <li>7. Disable of CAB</li> <li>The supplier must implement a display method to determine at any time if the REAR GPS has satellite lock and if the GPRS successfully send data to the server.</li> <li>5. REAR matching status.</li> <li>The supplier must implement a display method to determine at any time if the REAR GPS has satellite lock and if the GPRS successfully send data to the server.</li> <li>S. REAR matching such is desirable that the REAR unit indicated when matched to the CAB unit and if the Valve is ARMED. Suppliers must look into methods to provide such information.</li> <li>The CAB unit must shut down after 30 "COMMS FAIL" tries. The CAB unit</li> </ul>		C Y=GPS antenna C Y= C Y= C Y= C Y=
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6. Rear brake valve in Vacuum mode.       No arming and no brake valve activation must be possible in Vacuum mode.         7. Disable of CAB       The CAB unit must shut down after 30 "COMMS FAIL" tries. The CAB unit	status	and if the Valve is ABMED. Suppliers must look into methods to provide
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1. Disable of OAD The OAD unit must shut down after so COMMIS FAIL thes. The CAD unit	7 Disable of CAR	The CAB unit must shut down after 30 "COMMS EALL" trice. The CAB unit
Linite will disable the RRA "ARMING" and stop RF transmission. To re-activate	unite	will disable the RRA " $\Delta$ RMING" and stop RF transmission. To re-activate
a new CAB unit start un sequence must be initiated		a new CAB unit start un seguence must be initiated

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8. TCS Interface software.	Must be standard in all CAB units. See Annexure-B
9. Interface to	Must be standard in all CAB units. See Annexure-B
remote head.	
10. Manual	The REAR button must be hold in for at least 30 sec before the unit
SWITCHED OF OF	switched off.
11. Logging of	Typical data logged
REAR unit data.	The supplier must provide an AT command set where by the REAR unit must output the data in a comma delimiter file format via the serial port. At least 5 days of info must be stored.
	RU ID.Latitude,Longitude,Pressure,Date,Time,Speed,Batt,Brake Type,EBA Active,HVM Status,GSM Status,CRC,Count 18395,25 863312,28 140606,45,2009-02-10,18:03:12,0,116,1,0,1,1,0x0d0e,451 18395,25 863314,28 140608,39,2009-02-10,18:03:15,0,117,1,0,1,1,0x08eb,452 18395,25 863319,28 140606,33,2009-02-10,18:03:21,0,117,1,0,1,1,0xef3b,453 18395,25 863323,28 140600,27,2009-02-10,18:03:27,0,116,1,0,0,1,0xrd5e,454 18395,25 863323,28 140589,33,2009-02-10,18:03:50,0,117,1,0,0,1,0xr291,456 18395,25 863300,28 140585,35,2009-02-10,18:03:50,0,117,1,0,0,1,0xr291,456 18395,25 863300,28 140585,35,2009-02-10,18:03:57,0,116,1,0,1,1,0xr745,458 18395,25 863295,28 140593,18,2009-02-10,18:04:04,0,116,1,0,1,1,0xr745,458 18395,25 863295,28 140593,34,2009-02-10,18:04:07,0,116,0,0,1,1,0xr264,459 18395,25 8632279,28 140593,34,2009-02-10,18:04:10,0,116,0,0,1,1,0xr264,461 18395,25 8632270,28 140593,48,2009-02-10,18:04:13,0,116,0,0,1,1,0xr364,461 18395,25 8632270,28 140593,48,2009-02-10,18:04:13,0,116,0,0,1,1,0xr364,461 18395,25 863262,28 140602,63,2009-02-10,18:04:13,0,116,0,0,1,1,0x8414,463 18395,25 863262,28 140602,71,2009-02-10,18:04:18,0,116,0,0,1,1,0xb1c4,464
12. Logging of CAB	Typical data logged.
unit data.	The supplier must provide an AT command set where by the CAB unit must output the data in a
	comma delimiter file format via the serial port. At least 5 days of info must be stored.
	Rear ID, CU Latitude, CU Longitude, RU Latitude, RU Longitude, Pressure, Date, Time, CU Speed, RU Speed, CU Batt, RU Batt, Brake Type, EBA Equiped, EBA Active, Air Gen Fitted, HVM Status, Armed Status, Comms Status, TC Status, GPRS Status, CRC, Count 18395, 25,863321, 28,140648, 25,863205, 28,140596, 46,2009-02-10,17:52:59,0,0,120,36,1,1,0,0,0,1,0,6,0,0,675 18395, 25,863302, 28,140608, 25,863203, 28,140642, 46,2009-02-10,17:53:30,0,0,119,36,1,1,0,0,0,1,0,6,0,0,676 18395, 25,863302, 28,140589, 25,863194, 28,140662, 46,2009-02-10,17:54:31,0,0,0,119,36,1,1,0,0,0,1,0,6,0,0,677 18395, 25,863308, 20,140589, 25,863190, 28,140664, 46,2009-02-10,17:55:31,0,0,120,36,1,1,0,0,0,1,0,6,0,0,678 18395, 25,863308, 20,140579, 25,863173, 28,140554, 46,2009-02-10,17:55:32,0,0,119,36,1,1,0,0,0,1,0,6,0,0,679 18395, 25,863308, 20,140579, 25,863173, 28,140459, 46,2009-02-10,17:55:32,0,0,119,36,1,1,0,0,0,1,0,6,0,0,680 18395, 25,863329, 28,140587, 25,863173, 28,140478, 46,2009-02-10,17:55:32,0,0,119,36,1,1,0,0,0,1,0,6,0,0,680 18395, 25,863295, 28,140587, 25,863190, 28,140564, 46,2009-02-10,17:55:33,0,0,119,36,1,1,0,0,0,1,0,6,0,0,680 18395, 25,863295, 28,140587, 25,863190, 28,140564, 46,2009-02-10,17:55:33,0,0,119,36,1,1,0,0,0,1,0,6,0,0,680 18395, 25,863295, 28,140587, 25,863190, 28,140564, 46,2009-02-10,17:55:33,0,0,119,36,1,1,0,0,0,1,0,6,0,0,680 18395, 25,863249, 28,140562, 25,863190, 28,140564, 46,2009-02-10,17:55:33,0,0,119,36,1,1,0,0,0,1,0,6,0,0,682
	554 2195 X 24 BPP 13/92 100 % 52.93 KB / 316.91 KB 2009/02/10 / 18:52:46
GPRS connection.	the message information in an Oracle database. TFR only define the table.
	The server software must support at least the following.
	1. Changing the repeater server IP remotely.
	2. Accommodate and changing two APN names on the repeater remotely
	3. Changing the repeater port connection remotely.
	4. Request and repeater update remotely.
	5. Revert back to the previous settings if remote changes fail.
	The proposed table look like this which will be finalised with the successful tenderer.
	Datetime: Reporting date & time
	Charging: Are the unit charging
	UnitSerNo: Unit serial number.
	Vswr: Unit vswr status
	Longitude: GPS Longitude

	Latitude: GPS latitude
	RearRepIDI: Rear idi of unit repeated.
	Direction: Was it a front to back or rear to front repeating
	Triggers:
	1. When request remote update.
	2. Send one message when any Eot enters the repeater area and trigger a repeater function.
	3. When the charging fails.
	4. Once every hour.
	Notes:
	The unit can send back the last repeated IDI if another EoT was not causing the trigger. TFR only define the table structure. The supplier must implement a suitable and reliable protocol using the least data over the air via his server software with above functions. The server must support up to 100 connections and run on Window XP.
14. Accelerometer.	The fine tuning of the accelerometer alarm levels will be determined by
(For RFI)	experiment.
	<ol> <li>Ruff handling:(Kpa=0 &amp; Tilt = horizontal.</li> </ol>
	Drop > 500mm (Scale 01h-ffh with 500mm level at 80h)
	Or what ever the supplier recommend as practical and save for his equipment.
	Measure any of the three axes.
	2. On the Buffer:(Kpa > 50 or Kpa > -10 & Tilt = upright. Moving > )
	Vertical : With a vertical variation of 1-50mm over 1.5m distance. (scale 01h – ffh with 50mm at AAh)
	<ul> <li>Side ways: With a sideway variation of 1-100mm over 3m distance. (scale 01h – ffh with 100mm at AAh)</li> </ul>
	Horizontal front to back: None

End of document.